LADOTD REQUEST FOR ENGINEERING AND RELATED SERVICES FOR IDIQ CONTRACTS FOR BRIDGE PRESERVATION STATEWIDE

Contract Nos. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, and 4400024189

VOLKERT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

May 10, 2022

Volkert, Inc.
Baton Rouge Office
7967 Office Park Boulevard
Baton Rouge, LA 70809 225.218.9440
www.volkert.com

VOLKERT

Department of Transportation & Development
Attn: Mr. Michael "Mike" Gorbaty
Consultant Contract Services Administrator
1201 Capitol Access Road, Room 405-BB
Baton Rouge, LA 70802

RE: IDIQ Contracts for Bridge Preservation Statewide
Contract Nos. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, AND 4400024189

Dear Mr. Gorbaty,

Volkert, Inc. is pleased to submit on the **IDIQ Contracts for Bridge Preservation Statewide** advertisement. As part of Volkert's commitment to providing the Louisiana Department of Transportation and Development (LADOTD) with a proven team to successfully deliver this contract, Volkert has insured the availability of our experienced engineers, inspectors, and additional staff.

Within Volkert's 96-year history, Volkert has developed a pedigree as a multi-discipline engineering and environmental firm, providing services to state and federal agencies, local and municipal governments and private industry clients throughout Louisiana. Volkert is a nationally recognized bridge design services firm providing over 40,000 inspections in the past 35 years including National Bridge Inspection Standards (NBIS) inspections, scour evaluations, and load ratings of selected bridge sites. Our team has extensive experience with quality control and quality assurance plans and procedures associated with state bridge design services. Volkert has performed these types services for numerous federal and local clients nationwide. Volkert's ability to integrate with and support a wide range of state bridge programs means we are uniquely qualified to assist LADOTD perform bridge preservation, in any capacity, efficiently and effectively.

For this contract, Volkert will serve as the Prime Consultant and will augment our team with WSP USA, Inc. (WSP), STV, Inc. (STV), Burgess & Niple, Inc. (Burgess), Bridge Diagnostics, Inc. (BDI), APS Engineering and Testing, LLC (APS, a DBE firm), and KTA-Tator, Inc. (KTA).

The following subconsultants have been selected as part of the Volkert team:

- WSP will provide Moveable Bridge Design and Inspection Structural, Mechanical, Electrical and Construction Engineering Support as-needed.
- STV will provide Moveable Bridge Design and Inspection Structural, Mechanical, Electrical and Construction Engineering Support as-needed.
- Burgess will provide Bridge Inspection services as-needed.
- BDI will provide Structural Nondestructive Testing/Evaluation, Load Testing, Monitoring, and Evaluation services as-needed.
- APS will provide Geotechnical Services such as Soil Borings, Geotechnical Laboratory Testing and analysis, preparation of Soil Boring Logs, Geotechnical Analysis and Construction Engineering Support as-needed.
- KTA will provide Collection of Samples and Evaluation of Protective Coating Material Samples as-needed

I am authorized to bind the company under this contract and I look forward to discussing this opportunity in greater detail; you can reach me at the contact information below with any comments or questions.

Respectfully submitted,
Volkert, Inc.

Janet L. Evans, PE, MBA
Vice President of Louisiana Operations

Contact Information:
Authorized Representative
Janet L. Evans, PE, MBA
jan.evans@volkert.com
(225) 270-1454 (c)


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LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

(Revised March 1, 2022)

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	IDIQ Contracts for Bridge Preservation Statewide
2. Contract number(s) as shown in the advertisement	4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, AND 4400024189
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	Volkert, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	Louisiana License: EF.0002500
6. Prime consultant mailing address	7967 Office Park Boulevard Baton Rouge, Louisiana 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	7967 Office Park Boulevard Baton Rouge, Louisiana 70809
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Janet L. Evans, PE, Vice President 225-218-9440; Jan.evans@volkert.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Janet L. Evans, PE, Vice President 225-218-9440; Jan.evans@volkert.com
10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies thatit is not engaged in a boycott of Israel and it will,	

for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9): Date: May 10, 2022
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): APS Engineering and Testing, LLC Firm(s)' %: 3

SECTION 12:
PAST PERFROMANCE EVALUATION DISCIPLINE TABLE

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12. Past Performance Evaluation Discipline Table:
As indicated in the advertisement, insert the 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 percent of the contract. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CEGI/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. The crosswalk from the old categories to the new categories can be found at the link below: http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New%20Evaluation%20Disciplines.pdf (same link as in the advertisement)

Past Performance Rating Catagories**	% of Overall Contract	Volkert	WSP	STV	Burgess	BDI	APS	KTA
Bridge	60%	50%	15%	10%	10%	10%	0%	5%
Road	8%	100%	0%	0%	0%	0%	0%	0%
Environmental	10%	100%	0%	0%	0%	0%	0%	0%
Geotechnical	10%	0%	0%	0%	0%	0%	100%	0%
Survey	12%	100%	0%	0%	0%	0%	0%	0%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.								
Percent of Contract	100%	60%	9%	6%	6%	6%	10%	3%

SECTION 13:
FIRM SIZE

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13. 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 (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link:
http://wwwsp.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)
Volkert, Inc.	Principal	1	37
Volkert, Inc.	Supervisor - Engineer	4	35
Volkert, Inc.	Engineer	14	80
Volkert, Inc.	Inspector - Bridge	8	2
Volkert, Inc.	Surveyor	1	38
WSP	Principal	1	25
WSP	Inspector - Bridge	10	80
WSP	Engineer	8	32
WSP	Supervisor - Engineer	4	12
WSP	Engineering - Aide	8	32
WSP	CADD Drafter	1	4
WSP	Technician	2	8
STV	Engineer	3	700
APS	Engineer	5	5
APS	Driller	8	8
APS	Technician	12	12
KTA-Tator, Inc.	Supervisor - Other	2	12
KTA-Tator, Inc.	Senior Technician	2	1

13. 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 (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: http://wwwsp.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)
Burgess & Niple, Inc.	Engineer	3	3
Burgess & Niple, Inc.	Engineer – Other	18	18
Burgess & Niple, Inc.	Principal	1	2
Burgess & Niple, Inc.	Engineer Intern	3	4
Burgess & Niple, Inc.	Inspector – Bridge	3	3
Burgess & Niple, Inc.	CADD – Operator	1	2
Bridge Diagnostics, Inc. (BDI)	Principal	3	3
Bridge Diagnostics, Inc. (BDI)	Supervisor – Engineer	6	3
Bridge Diagnostics, Inc. (BDI)	Supervisor – Other	14	6
Bridge Diagnostics, Inc. (BDI)	Engineer – Other	4	14
Bridge Diagnostics, Inc. (BDI)	Engineer – Intern	7	4
Bridge Diagnostics, Inc. (BDI)	Senior Technician	13	7
Bridge Diagnostics, Inc. (BDI)	Technician	4	13
Bridge Diagnostics, Inc. (BDI)	Computer Analyst	1	4
Bridge Diagnostics, Inc. (BDI)	Accountant	2	1
Bridge Diagnostics, Inc. (BDI)	Clerical	3	2
Bridge Diagnostics, Inc. (BDI)	Professional	6	6

SECTION 14:
ORGANIZATIONAL CHART

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14. Organizational Chart:
Provide an organizational chart showing ALL relevant prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20. It is acceptable to use an 11x17 format for Section 14.

Organizational Chart

Volkert will serve as the prime firm in providing services to LADOTD for this contract. The contract will be primarily managed from our office located at 7967 Office Park Blvd #200, Baton Rouge, LA 70809.

Minimum Personnel Requirement Nos.

Firm Legend

- ▼ Volkert, Inc.
- ■ WSP
- ● STV
- ◊ Burgess
- Δ BDI
- ◘ APS
- ⊙ KTA

Principal-in-Charge

- ▼ Janet Evans, PE, MBA (1,2)

Project Manager

- ▼ Hossein Ghara, PE, MBA (3)

Assistant Project Manager

- ▼ Jacob Parker, PE (3,4)

Bridge Inspection, Evaluation and Reporting

- ▼ Aaron Immel, PE, CBI, CTI, CFM
- ▼ Britt Bumpers, PE, CBI, CTI
- ▼ Stephen Dossett, PE, CBI, CTI
- ▼ Matt Burnett, PE, ADCI, CBI, CTI
- ▼ Robert Scheeler, PE, CBI, CTI
- ▼ Paul Swann, CBI
- ▼ Todd Powell, CBI
- ▼ Anthony Bibelhauser, CBI
- ▼ Davey Smith
- ◊ Edward M. Cinadr, PE
- ◊ Brenden J. Prendenville, PE
- ◊ Michael J.Kronander, PE
- ◊ James Appler, PE

Roadway Design

- ▼ Jonathan Gambino, PE, PTOE, RSP1 (8)
- ▼ Ashley Beckendorf, PE (8)
- ▼ Randy Denmon, PE, PLS

Fixed Bridge Design

- ▼ Hossein Ghara, PE, MBA (3)
- ▼ Jacob Parker, PE (3,4)
- ▼ Chris White, PE
- ▼ Brian Graham, PE
- ▼ Sean Shea, PE
- ▼ Jeremy Vezina, EI
- ▼ Gaston Ibarra, EI

Bridge Rating

- ▼ Jacob Parker, PE (3,4)
- ■ Lloyd Pearson, PE (4)

Moveable Bridge Design/ Inspection

- ■ Trevor Johnson, PE (7)
- ■ Lloyd Pearson, PE (4)
- ■ Arun Saha, PE
- ■ Thomas Harris, PE
- ■ Christopher Ray, PE
- ■ Hamid Yaghoubi, PE
- ● Nicholas J. Altebrando, PE

CADD / Technician

- ▼ Perry LeBlanc

Environmental/Permitting

- ▼ Barry Fagan PE, PLS, ENV SP, CPMSM, CPESC, CESSWI

Instrumentation & Non-Destructive Testing

- Δ Shane Boone, PHD
- Δ Brett Commander, PE
- Δ Jessee Sipple, PHD, PE
- Δ Charles Young, PE
- Δ Brice Carpenter, PE

Testing & Coating

- ⊙ Robert S. Lanterman
- ⊙ Greg R. Richards
- ⊙ Pedro M. Sanchez

Geotechnical Engineering

- ◘ Sergio Aviles, PE (9)
- ◘ Sairam Eddanapudi, ME, PE (9)
- ◘ Surendra Raj Pathak, MS, PE (9)

Survey

- ▼ Randy Denmon, PE, PLS

Electrical Engineering

- ■ Kevin Walsh, PE (6)
- ■ Antonio Gonzalez
- ■ Graciela Patino, EIT
- ● Jorge Leon, PE (6)

Mechanical Engineering

- ● Lawrence Nash, PE (5)
- ■ Robert Algazi, PE (5)
- ■ Amaka Amalu-Anderson, PE (5)
- ■ Maame Assasie-Gyimah, EIT

SECTION 15:
MINIMUM PERSONNEL REQUIREMENTS

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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.

MPR No.Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Janet L. Evans, PE, MBA	Volkert, Inc.	Civil PE #21307	LA	09/30/2022
2	Janet L. Evans, PE, MBA	Volkert, Inc.	Civil PE #21307	LA	09/30/2022
3	Hossein Ghara, PE, MBA Jacob Parker, PE	Volkert, Inc. Volkert, Inc.	Civil PE #18899 Civil PE #30596	LA LA	09/30/2022 09/30/2023
4	Jacob Parker, PE Lloyd Pearson, PE	Volkert, Inc. WSP	Civil PE #30596 Civil PE #39629	LA LA	09/30/2023 09/30/2023
5	Lawrence Nash, PE Amaka Amalu-Anderson, PE	STV WSP	Mechanical PE #42136 Mechanical PE #41985	LA LA	03/31/2024 03/31/2024
6	Jorge Leon, PE Kevin Walsh, PE	STV WSP	Electrical PE #44073 Electrical PE #44049	LA LA	03/31/2024 03/31/2022
7	Nicholas J. Altebrando, PE Trevor Johnson, PE	STV WSP	Civil PE #31404 Civil PE #45518	LA LA	03/31/2024 09/30/2023
8	Ashley Beckendorf, PE Jonathan Gambino, PE, PTOE, RSP1	Volkert, Inc. Volkert, Inc.	Civil PE #37334 Civil PE # 41496	LA LA	03/31/2023 09/30/2023
9	Sergio Aviles, PE Sairam Eddanapudi, ME, PE Surendra Raj Pathak, MS, PE	APS APS APS	Civil PE #33571 Civil PE #35129 Civil PE #43487	LA LA LA	03/31/2022 03/31/2022 09/30/2023

SECTION 16:
STAFF EXPERIENCE

- VOLKERT
- WSP
- STV
- BURGESS
- BDI
- APS
- KTA

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16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: Volkert, Inc.			
Janet L. Evans, PE, MBA *Principal-in-Charge*		Years of relevant experience with this employer	13
		Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization	MBA | 1986 | Business Administration BS | 1980 | Civil Engineering	Year registered	1984
Active registration number / state / expiration date	21307 | LA | 9/30/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:

Ms. Evans will be serving as Project Principal. She will fulfill Minimum Personnel Requirement #1 for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
39 years of experience	Ms. Evans joined Volkert in 2008 and has over 39 years of roadway and bridge project management and design experience in design and construction of transportation projects. This includes urban freeway design, stage 0 studies, capacity improvements, (lane additions), environmental justice and interchange modifications as well as both traditional design and an alternative design build considered confined work zones, traffic queuing and limited lane closures and development of construction sequencing for the high average daily traffic volume interstates. Her combination of construction and design experience has been utilized by the department in various alternative delivery projects including the development of draft CMAR guidelines and the development of a design build construction manual. She has renewed her ATSSA Traffic Control Supervisor, Technician and Flagger certifications recently. Ms. Evans experience from both the construction side and the design side allow her to provide insight which aids in the resolution of issues in alternative delivery projects. She has numerous years of experience serving as a Principal on alternative LADOTD projects and is currently providing Construction Quality Assurance on several urban roadway and bridge replacement projects in the area.
06/2020 – 08/2024	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements** | Principal-in-Charge | Ms. Evans is serving as Project Principal for the Belle Chasse Bridge and Tunnel Improvements. Volkert will be responsible for providing all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, decommissioning of the Tunnel and development of O&M plans. As the OVT, Volkert will provide guidance and support to the LADOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the P3 team adheres to their contract, and address other assignments as directed.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/2017 - 02/2020	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (LADOTD)** | Ms. Evans is serving as Principal-in-Charge for the Owner Verification Team (OVT) on Task Orders 3 & 4 which allows Volkert to provide procurement and project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish. She is responsible for all project oversight for the Design and Construction on this $72M Design-Build project. This project consists of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six-lane controlled access facility including construction of a new six-lane I-10 overpass at Highland Road. This was the fastest procured design-build today in DOTD History. | State Contract No. 4400004915 TO 3 & 4, S.P. No. H.009250.
03/2015 – 07/2017	**I-10: French Branch Bridge – West Pearl River Bridge, Routes I-10, I-12, I-59, St. Tammany Parish, LA (LADOTD)** | Ms. Evans served as Principal-in-Charge. Volkert provided construction contract administration and CE&I services for the clearing and grubbing, grading, drainage structures, cold planning asphaltic concrete, Class II Base Course, Superpave asphaltic concrete pavement, Portland Cement Concrete Pavement, and lime treatment.
08/2006 – 08/2011	**I-10 Twin Span Bridge Over Lake Pontchartrain Low Level Portions and Main Spans in Orleans and St. Tammany Parishes, Louisiana for the Louisiana DOTD** | The new bridge was designed for a 100-year life and built 300 feet to the east of the existing bridge. The bridge has an elevation of 30 feet, 21 feet higher than the existing bridge, with an 80-foot high-rise section near the Slidell side to allow for marine traffic and withstand a much higher storm surge. The 60-foot width of each span included three 12-foot lanes and two 12-foot shoulders on each side. The bridge was designed to include reinforced concrete walls to increase storm surge resistance and minimize the effects of any barge collision. Mr. Heraty served as Construction and Inspection Engineer for this project.
04/2018 - 04/2019	**I-220 to Barksdale AFB Connector Design-Build Procurement, Bossier Parish, LA (LADOTD)** | Ms. Evans is serving as Principal-in-Charge for Volkert's team as they completed preliminary construction cost estimates and reviewed preliminary engineering layouts from LA DOTD to help assess impacts, constructability design issues. She also helped produce the Performance Specifications, worked with LA DOTD staff in each category for project specific design issues to be addressed. She also assisted in the preparation of the Public Information Meetings and the One-on-One meetings with the shortlisted Design-Build teams for this $71.8 M Design-Build project. | State Contract No. 4400004915 TO 5, S.P. No. H.003370.
09/2020 – 11/2022	**Owner Verification Services for College Drive Flyover Ramp (I-10/I-12 west) in East Baton Rouge Parish for the Louisiana Department of Transportation and Development (LADOTD)** | Ms. Evans served as Principal-in-Charge for this project that consisted of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Volkert provided all necessary engineering services as part of this Design-Build/Owner Verification project. This included design reviews for bridges, roads, hydraulics, electrical and ROW Acquisition efforts as well as contract administration, scheduling, document control, and construction phase services. | SP No. 4400019680, S.P. No H.013897.
12/2017 - 12/2020	**Causeway Shoulder Bay Design, Jefferson and St. Tammany Parishes, LA (Greater New Orleans Expressway Commission)** | Volkert was selected to design essential and long-awaited shoulder additions. The bridge shoulders, comprising 12 "shoulder bays," will provide a safe space for disabled vehicles to pull over out of traffic. They will also increase safety for motorists and emergency personnel in the event of a crash. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana. Mrs. Evans served as Project Principal and Project Manager for this project.

Firm employed by: Volkert, Inc.			
Hossein Ghara, PE, MBA *Structural / Bridge Design Engineer*		Years of relevant experience with this employer	3.5
		Years of relevant experience with other employer(s)	44
Degree(s) / Years / Specialization	MBA | 1986 | Business Administration BS | 1976 | Civil Engineering	Year registered	1980
Active registration number / state / expiration date	18899 | LA | 3/31/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Ghara will be serving as Bridge Design Engineer. Mr. Ghara will fulfill MPR #3 for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
47 years of experience	Prior to joining Volkert in September 2018, Mr. Ghara worked for a consulting engineering firm for over 4 years. Prior to that, he served as the LA DOTD State Bridge Engineer for 12 years. In this capacity, he administered and managed a major Section in Louisiana DOTD as an appointing authority overseeing staff ranging from 65 to 110 people, comprising of primarily Civil and Structural Engineers, Electrical and Mechanical Engineers as well as many Engineering Technician. He served in several AASHTO Technical Committees nationwide such as Chair the Tech. Committee on Bridge and Tunnel Security, T-1 and member of the Tech. Committee on Concrete Design, T-10. He recently renewed his ATSSA Traffic Control Supervisor, Technician and Flagger certifications. While serving as State Bridge Design Engineer, he oversaw the rehabilitation work done to the Huey P. Long Bridge and construction of the John James Audubon bridge, which was Louisiana's first Design-Build bridge and is currently North America's longest Cable Stay Span Bridge
02/2020 - Ongoing	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements, Plaquemine Parish (LADOTD) |** Mr. Ghara is serving as project manager for the Belle Chasse Bridge and Tunnel Improvements. Volkert will be responsible for providing all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, decommissioning of the Tunnel and development of O&M plans. As the OVT, Volkert will provide guidance and support to the LADOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the P3 adheres to their contract, and address other assignments as directed.
05/2020 - 05/2021	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA for the LADOTD**. Mr. Ghara is serving as Structural Engineer for Volkert's team. He is responsible for all project oversight for the Design and Construction on this$71.8M Design-Build project. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the overpass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
04/2018- 01/2020	**I-12 to Bush: LA 435 - LA 40/LA 41 for T. Baker Smith and the LADOTD.** As a sub-consultant to T. Baker Smith, Volkert provided bridge and road design services as necessary to complete the submittal of Stage 3 Design, Part III Preliminary Plans. Volkert was responsible for the review of the environmental study, traffic date, parish maps, aerial photos, and DOTD roadway classification.
05/2019 - 07/2020	**I-12 Widening (US 190 to LA 59) Route I-12, St. Tammany Parish for T. Baker Smith, LLC and the LADOTD.** Mr. Ghara served as Structural Engineer. Volkert is responsible for bridge design, road design, and ICE/CPM which includes all engineering services necessary to complete the submittal of Stage 3 Design, Part III, Preliminary Plans and Part IV, Final Plans. This project is to widen and and rehabilitate I-12 to the median side from a four lane freeway to a six lane freeway section in both the East and Westbound direction. The project begins just west of US 190 and ends just east of LA 59 for approximately 4 miles
06/2020 –8/2024	**Causeway Shoulder Bay Improvements, Jefferson Parish, LA for Greater New Orleans Expressway Commission.** Mr. Ghara's served as Structural Engineer and his responsibilities include design of basic safety plan and elevation, design of girders, design of cable tray attachment and miscellaneous electrical details, design of sign support details and design of transition barriers. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana.
09/2018 - 07/2020	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (LADOTD)** |Mr. Ghara served as Review Engineer for the Owner Verification Team on Task Order 4 which allowed Volkert to provide project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish. He was responsible for all project oversight for the Design and Construction on this $72M Design-Build project. This project consisted of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six- lane controlled access facility. |State Contract No. 4400004915 TO 4, S.P. No. H.009250
09/2018 - 06/2019	**US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build, Lafayette Parish, LA (LADOTD)** | Mr. Ghara served as Review Engineer for the Owner Verification Team on Task Order 6 which allowed Volkert to provide project oversight and acceptance for both design and construction for the US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build Project in Lafayette Parish. Volkert's Baton Rouge office was responsible for all project oversight for the Design and Construction on this $57M Design-Build Project. This project consists of upgrading a portion of US 90 in Lafayette Parish to a six-lane controlled access facility. | State Contract No. 4400004915 TO 6, S.P. No. H.010620
Prior to Joining Volkert	Mr. Ghara served as the Louisiana DOTD State Bridge Engineer for 12 years. In this capacity, administered and managed a major Section in Louisiana DOTD as an appointing authority overseeing staff ranging from 65 to 110 people, comprising of primarily Civil and Structural Engineers, Electrical and Mechanical Engineers as well as many Engineering Technician. Mr. Ghara oversaw the State's Bridge Preservation Program which resulted in an average yearly bridge construction program of $180M. in addition of $50 to $100M of On and Off System Bridge Construction projects. Mr. Ghara oversaw Four Structural Design offices, each managed by an administrator serving the State Bridge Engineer as assistants. Consultant Management, Bridge Rating, Mechanical Engineering, Electrical Engineering. As State Bridge Engineer, he was the primary and the only voting member of the American Association of State Highways and Transportation Officials AASHTO Subcommittee on Bridges and Structures. While serving as State Bridge Design Engineer, he participated in the replacement and restoration of several major bridge structures such as the 1-10 Twin Spans, US 90 Vertical Lift Bridge over the Inner Harbor Navigation Canal in Danziger, US 11 Bridge over Lake Pontchartrain and several other Movable Bridges.

Firm employed by: Volkert, Inc.			
Brain Graham, PE *Engineer / Bridge Design*		Years of relevant experience with this employer	23
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS | 1999 | Civil Engineering	Year registered	2010
Active registration number / state / expiration date	35497 / LA / 09/30/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Graham will perform bridge design for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
23 years of experience	Mr. Graham, who joined Volkert in 1999 has 23 years of structural engineering experience, including project management and stringent quality control. His experience includes the analysis of bridges and structures, design of new and replacement bridge structures, and the management and development of construction documents which he signs and seals. He has performed load ratings per AASHTO and LRFD standards, led bridge safety inspections, and provided construction administration support throughout his career. He routinely investigates the conditions of existing bridges; develops the scope for bridge rehabilitation projects; and provides technical guidance. Recently, he completed the bridging documents and assisted in the development of procurement documents for Arlington County's first transportation design-build project. Mr. Graham's training includes: ▼ FHWA, NHI Safety Inspection of In-Service Bridges ▼ FHWA, NHI Bridge Inspection Refresher Training
08/2019 - 12/2021	**Arlington County Department of Environmental Services, West Glebe Road over Four Mile Run Preliminary Design, Arlington, VA,** Project Manager. Construction Complete: 2021 Anticipated, Construction Estimate: $9M. Managed concept design and development of bridging documents and technical requirements for the D-B procurement of Arlington County's first transportation design-build project. Coordinated daily with Arlington County during the design development of bridge, approach roadway, sidewalk, and maintenance of traffic (MOT) options for replacement of the superstructure and repair of the substructure. The concept designs were presented at a Public Hearing and the chosen alternative was advanced by Mr. Graham to 30%. Both of the options for super structure replacement - steel beams and concrete deck using traditional construction methods or ABC construction using prefabricated sections - provide improved multimodal facilities including bicycle lanes and pedestrian facilities.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/2020 - 1/2021	**Arlington County Department of Environmental Services, Inspection & Design of Rehabilitation of Bridges, Arlington, VA.** Senior Bridge Engineer. Construction Complete: 2021 Anticipated, Fees To-Date: $754,365. Manages the development of repair and maintenance contracts, design plans, and cost estimates, and provides engineering services, on an as-needed basis, for the County's 35 vehicular and pedestrian bridges and culverts. To date, he has conducted the plan review of S. Walter Reed Drive Bridge over S. Four Mile Run; managed the development of repair plans for the N. Nash Street Pedestrian Bridge; design of the beam end repairs/retrofits of the Fort Myer Drive N. of Wilson Boulevard Pedestrian Bridge; and the joint and concrete repairs for the 17th Street N. over Fort Myer Drive Pedestrian Bridge. Managed the prioritization of repairs to the County's Bridge Program, Phase II; and the development of a concept report for replacing/rehabilitating the North Dumbarton Street over Little Pimmit Run Culvert. Also providing safety inspections; load ratings; condition assessments to determine repair needs; and economic feasibility studies. In the event that repairs are required on specific bridges, he provides the requisite design plans to the County for construction bid thereof.
08/2019 - 02/2020	**Arlington County, South Clark Street Bridge Redesign & Pedestrian Plaza, Arlington, VA.** Senior Structural Engineer. Construction Completed: 2020; Construction Cost: $6.6M. Led the re-design of a portion of the project (designed by others) at Arlington County's request. As the project was already under construction, he prepared these re-design plans on an accelerated schedule to avoid on-going construction delays. The original plans included removing the north abutment of the South Clark Street Bridge and constructing a new retaining wall along the Route 1 off-ramp. The re-design left the existing north abutment in place and transformed the previous South Clark Street into a pedestrian-friendly plaza. The re-design modifies the top of the existing north abutment to accommodate a pedestrian railing; and eliminates and replaces the originally proposed retaining wall and moment slab along the Route 1 off-ramp with a new terminal wall on the Route 1 Bridge. The grading plan on the north side of the project was also modified; the SWM, SWPPP and E&SC plans were updated; and relocation plans for a Pepco Fiber Optic line were developed.
07/2018 - 07/2020	**City of Alexandria Department of Environmental Services, Bridge Safety Inspections, Design, & Construction Management & Inspection, Alexandria, VA,** Lead Structural Engineer Construction Completed: Varies by Task; Construction Cost: Varies by Task Provides structural engineering services for the City's highway, railroad, and pedestrian bridges and culverts through this on-call task order contract. *Representative tasks include:* Bellaire Road Retaining Wall – Led design for the replacement of a failed portion of an existing retaining wall. A site visit determined the length needing replacement, approximately 90 feet. Design services included the development of construction plans, specifications, a construction estimate, and bid tabulation. The plans included the demolition limits of the existing wall, and the necessary details for construction of a replacement wall. The project also included excavation and protection of existing utilities. Four Mile Run Connector Bridge – Led design of a prefabricated, single-span, steel-trussed pedestrian bridge with a timber deck over a tributary of Four Mile Run, to connect the new Four Mile Run causeway to the existing trail.

Firm employed by: Volkert, Inc.			
Sean Shea, PE *Engineer / Bridge Design*		Years of relevant experience with this employer	17
		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS | 2003 | Civil Engineering	Year registered	2010
Active registration number / state / expiration date	35730 / LA / 03/31/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Shea will perform bridge design for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
19 years of experience	Mr. Shea has been with Volkert since 2005, and has over 16 years of design engineering experience. While in his earlier years at Volkert he has worked on a number of utility related water and wastewater facility projects he is now primarily responsible for preliminary and final design of bridges. Mr. Pitts' training includes: ▼ High Impact Presentations, Dale Carnegie ▼ Public Assistance Program Delivery Management (FEMA) ▼ Short Span Steel Bridge Workshop, Alabama Technology Transfer Center ▼ Load Rating of Steel Truss Bridges FHWA LRFR Implementation Webinar Series Topic #10 ▼ LRFD/LRFR Design and Load Rating of Culverts, FHWA ▼ LRFD for Highway Bridge Superstructures-Steel and Concrete FHWA/NHI ▼ LRFD for Highway Bridge Substructures Course #132082 FHWA/NHI ▼ LRFD Seismic Analysis and Design of Bridges Course #130093 FHWA/NHI ▼ Flow Monitoring: Dollars Landfill Liner Basics, Qore Property Sciences ▼ Project Management Training
02/2015 - 12/2016	**Project Engineer for the I-59/20 Bridge Replacement Project for ALDOT-** Performed design of bridge superstructure and substructure for a portion of the approximately 30 bridges on this project. This design includes steel plate girders, prestressed concrete girders and steel rolled shapes for the superstructure. The design includes driven pile foundations, drilled shaft foundations or pile footing foundations for the substructure. Also, Mr. Shea coordinated all bridge submittals and bridge plan revisions as well as some RFI and RFA responses to ALDOT.
06/2014 - 01/2020	**Project Engineer for CR 71 over Dry Creek for ALDOT/Etowah County, AL –** Performed design of bridge superstructure and substructure. The design included pile bents supported by steel H-piles and the superstructure is supported by prestressed concrete girders.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
07/2014 - 07/2020	**Project Engineer for CR 79 over Tight Eye Creek for ALDOT/Geneva County, AL –** Performed design of bridge superstructure and substructure. This design included abutments supported by steel H-piles and bents supported by drilled shafts.
11/2018 - 11/2019	**Project Engineer for the SR 158 bridges (multiple) for ALDOT –** Performed design of bridge superstructure and substructure for 4 bridges in this project corridor. This design included prestressed concrete girders and pile bents supported by prestressed concrete piles.
06/2014 - 06/2015	**Project Engineer for CR 52 over Cahaba River for ALDOT/Shleby County, AL** – Performed design of bridge superstructure and substructure. This design included abutments supported by steel H-piles and bents supported by drilled shafts also the superstructure design included steel plate girders.
09/2014 - 02/2021	**Project Manager for Benn Kidd Road over Alamuchee Creek for ALDOT/Sumter County, AL** – Performed design of bridge superstructure and substructure. This design included abutments supported by steel H-piles and bents supported by drilled shafts also the superstructure is supported by prestressed concrete girders.
04/2014 - 02/2016	**Project Manager for CR 12 over Bassetts Creek for ALDOT/Washington County, AL** – Performed design of bridge superstructure and substructure. This design included pile bents supported by steel H-Piles and the superstructure is supported by prestressed concrete girders.
04/2014 - 02/2016	**Project Manager for CR 19 over Bassetts Creek for ALDOT/Washington County, AL** – Performed design of bridge superstructure and substructure. This design included pile bents supported by steel H-Piles and the superstructure is supported by prestressed concrete girders.
04/2014 - 02/2021	**Project Manager for CR 20 over Escatawpa River (multiple bridges) for ALDOT/Washington County, AL** – Performed design of bridge superstructure and substructure. This design included pile bents supported by steel H-Piles and the superstructure is supported by prestressed concrete girders.
07/2014 - 02/2021	**Project Manager for CR 2 over Escatawpa River for ALDOT/Washington County, AL** – Performed design of bridge superstructure and substructure. This design included abutments supported by steel H-piles and bents supported by drilled shafts also the superstructure is supported by prestressed concrete girders.

Firm employed by: Volkert, Inc.			
Chris White, PE *QA/QC Manager / Senior Bridge Engineer*		Years of relevant experience with this employer	7
		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization	MS | 1984 | Civil Engineering BS | 1982 | Civil Engineering	Year registered	2006
Active registration number / state / expiration date	32261 / LA / 09/30/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. White will serve as QA/QC Manager and perform engineering duties for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
37 years of experience	Mr. White has been involved with various assignments on bridge projects throughout the United States. His experience includes design and field engineering for segmental, post-tensioned and prestressed concrete bridges, analysis of complex structures, and seismic design of bridges. In addition to bridge design and analysis, Mr. White served/serves as: ▼ Principal Author for Chapter 20, "Prestressed Concrete Piling," for the PCI Bridge Design Manual ▼ Assistant Principal Investigator for NCHRP Project 12-57 to develop LRFD design procedures, standard details and design examples for extending span ranges with spliced, prestressed concrete girders and post-tensioning ▼ Instructor for LRFD design courses on behalf of the Florida Department of Transportation (FDOT) and the Florida Institute of Consulting Engineers (FICE) (1997-98) ▼ Technical advisor for the AASHTO T-10 Subcommittee in ongoing development of Section 5 of the AASHTO LRFD Bridge Design Specification ▼ Member of the American Segmental Bridge Institute (ASBI) Technical Advisory Committee ▼ Vice-Chairman of the Precast/Prestressed Concrete Institute (PCI) Bridge Committee and Chairman for the LRFD Subcommittee ▼ Member of the ACI 318-F subcommittee for Foundations ▼ Member of the joint PTI/ASBI DC-40 Bridge Design Committee
02/2016 - 02/2018	**Panama Metro Line 2, Panama City, Panama –** As part of the Odebrecht/FCC design-build team, performed seismic analysis and design for ten three-span crossover track bridge structures and two special river crossing structures. Each bridge consists of decked multi-girder superstructure units supported by 1.75m columns on 2.25m mono-shafts. Design for seismic loads includes dual level displacement analyses (Expected Earthquake, EE, and Maximum Considered Earthquake, MCE) for soil Site Classes C and D. Line 2, expected to open in 2019, will be 13 miles long with 16 stations and will run from San Miguelito to Nuevo Tocumen.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
02/2015 - 12/2016	**I-59/I-20 Bridge Replacement Project, Birmingham, AL –** Led substructure design for 6500 LF of elevated east and west interstate roadway supporting over 26,000 LF of concrete segmental box girders. The existing bridge extends from just east of the I-59/20 / I-65 route interchange to US 31and runs through the Birmingham Central Business District. The two- to four-span continuous units with 130' to 160' spans will be built using the span-by-span method of construction. The substructure consists of 175 typical, tee and transition piers supported on multi-pile and shaft foundations.
05/2017 - 09/2018	**Lake Pontchartrain Causeway Safety Bay Project, New Orleans –** Mr. White developed concepts and supervised final bridge design and plans development to add 12 safety bays (6 in each direction) to the existing 25-mile long twin causeway structures as part of a CMAR (CMGC) contract. The existing Southbound bridge consists of repetitive 56'-long, PPC girder simple spans and the Northbound bridge is similar but with 84'-long simple spans. Both structures are supported by PPC pile trestle bents. Mr. White's firm was selected by the client based largely on the efficient superstructure section developed specifically for the project and the construction methods proposed to minimize traffic disruptions and simplify construction. The repetitive sequence of construction involves all precast concrete elements – cylinder piles, bent caps and two-girder composite concrete single-span deck sections. Each unit will be barged then erected from the water to minimize traffic disruptions and speed construction. Construction Cost ~$60-million.
08/2017 – 07/2019	**I-10 Highland to LA 73 Design/Build, Baton Rouge, LA –** In the role of Owner's GEC representative, served as technical reviewer for two bridges, I-10 over Highland Road and I-10 over Manchac Bayou. The existing four-span Highland Road bridge is being replaced by a three-span structure with a longer steel girder center span and includes staged widening of the dual structures across the median into a single new structure. The Manchac Bayou structure involves significant concrete repairs to and inside widening of a pair of two-lane flat slab structures to three lanes with full shoulders. Repairs include spalls along underside of deck slab and trestle-type bent caps, piles and columns, involving cleaning of rebar, epoxy injection and mortar patching.
04/2013 - 10/2014	**Ohio River Bridges (ORB) Downtown Crossing, Louisville, KY –** Senior technical reviewer for Section 2 cable-stay bridge design and plans submitted by design-build team. Under the two-year, $5.4-million contract as part of the GEC team, Mr. White provided technical design reviews for and on behalf of KYTC. His primary role involved review of the foundations, piers and stay towers for the new three-tower cable-stay bridge on Interstate 65 over the Ohio River, but other services included analysis and development of repair schemes for miscellaneous portions of the existing approach structures.
04/2001 - present	**FM 2100 Bridge over Luce Bayou, Harris Co., TX –** Bridge Task Leader for dual nine-span replacement structures carrying FM 2100 over Luce Bayou in rural Harris County. The new bridges will each carry two lanes of one-way traffic with raised sidewalk and utilize Tx54 girders supported on drilled shaft bents. As part of an upgrade to an urban arterial facility, the bridges replace an existing two-way structure
11/2001 - 04/2020	**US 190 WB Turnaround Bridge at FM 2410, Harker Heights, TX –** Mr. White was Project Manager and Bridge Task Lead for final design of a new turnaround bridge carrying traffic from the US 190 WB frontage road to the EB frontage road. The project included plans, specifications and estimates for the new bridge and associated roadway modifications to add WB and EB frontage road ramps. The bridge utilizes TxDOT Tx54 girders supported on aesthetic pier bents with drilled shaft foundations.

Firm employed by: Volkert, Inc.			
Jacob Parker, PE *Structural / Bridge Design Engineer*		Years of relevant experience with this employer	3.5
		Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization	BS | 1998 | Civil Engineering	Year registered	2003
Active registration number / state / expiration date	30596 | LA | 9/30/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Parker will serve as Bridge Design and Load Rating Support Engineer. He will fulfill MPR's #3 & 4 for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
20 years of experience	Mr. Parker has over 20 years of structural engineering experience including in the design of prestressed concrete bridge design with spans up to 150 feet and in the design of geometrically challenging and complex bridges, such as curved, super-elevated, skewed piers, and movable spans. He also has experience with structural analysis, reinforced concrete design, prestressed concrete design, wood and timber design, advanced mechanics of materials, finite element analysis, shallow foundations, inland waterways, and engineering for natural hazards. Mr. Parker also has the following training: LRFD Training (Seismic Design/Movable, etc.), LEAP Bridge, STAAD, MDX, WinSEISAB, CONSEC, Response 2000, AASHTO GM-2.1, Virtis, Retain Pro, PCA Column, MATHCAD, Smath, Microstation, AutoCAD & AutoCAD 3D.
02/2020 – 02/2024	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements, Plaquemine Parish (LADOTD) |** Mr. Parker is assisting with Volkert's responsibilities which is to provide all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, decommissioning of the Tunnel and development of O&M plans. As the OVT, Volkert will provide guidance and support to the LADOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the DBT adheres to their contract, and address other assignments as directed.
09/2018 - 07/2020	**I-10: Highland Road to LA 73 Design-Build, East Baton Rouge and Ascension Parishes, LA (LA DOTD)** |Mr. Parker served as Review Engineer for the OVT on Task Order 4 which allowed Volkert to provide project oversight and acceptance for both design and construction for the I-10 Design-Build project from Highland Road in East Baton Rouge Parish to LA 73 in Ascension Parish. He was responsible for all project oversight for the Design and Construction on this $72M Design-Build project. This project consisted of upgrading a portion of I-10 in East Baton Rouge and Ascension Parish to a six-lane controlled access facility including construction of a new six-lane I-10 overpass at Highland Road. | State Contract No. 4400004915 TO 4, S.P. No. H.009250.
05/2019 - 12/2021	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA (LA DOTD)** | Mr. Parker is responsible for assisting with the bridge design review for Volkert's team. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
	The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the overpass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6.
09/2018 – 12/2020	**Causeway Shoulder Bay Improvements, Jefferson Parish, LA (Greater New Orleans Expressway Commission) |** Mr. Parker responsibilities included design of basic safety plan and elevation, design of girders, design of cable tray attachment and miscellaneous electrical details, design of sign support details and design of transition barriers. Volkert was selected to design essential and long-awaited shoulder additions. The bridge shoulders, comprising 12 "shoulder bays," provide a safe space for disabled vehicles to pull over out of traffic. They will also increase safety for motorists and emergency personnel in the event of a crash. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana.
06/2018 – 02/2021	**Almonaster Bridge Study, Orleans Parish, Port of New Orleans |** The Almonaster Bridge Study was developed to assist the Port of New Orleans selecting a replacement option for the Almonaster Bridge over the Inner Harbor Industrial Canal. It reviewed several replacement options as well as rehabilitation and compared costs for design, construction and permitting, different applications of design criteria, constructability, and possible funding sources. Other things considered were the elimination of railroad crossings in the area and proposed additional connection roadways to accommodate these eliminations. The study required the review of load rating/inspection reports as well as substructure preliminary design for each alternative by Volkert.
01/2022 - 01/2023 (est.)	**Reconstruction of the Chalmette Slip, Wharves A & F | St. Bernard Port Harbor & Terminal District St. Bernard Parish | Arabi, LA.** Mr. Parker served as Engineer of Record for Design which consisted of demolition and reconstruction of remaining original wharves at the Arabi Terminal. Reconstruction consisted of cast in place deck on precast concrete girders resting on precast concrete caps and supported by large diameter steel pipe pile bents supporting loads from 750 psf to 1000 psf or wheel loads from fully loaded forklift. Precast prestressed concrete box beams were used as edge beams and designed to take lateral loads from the berthing of ships. Bents were designed to absorb mooring loads and berthing loads. An upper and lower combination fender system was developed to handle both large vessels (upper) and barges (lower) so as to protect the superstructure and substructure from vessel impact. At grade portions of the wharves consisted of timber pile supported concrete slab designed to support 1000 psf or wheel loads from a fully loaded forklift, whichever controlled. Wharves were designed to comply with the following design codes and specifications: Various Port Facility Related Uniform Facilities Criteria (UFC), International Building Code (IBC), American Concrete Institute (ACI), and American Society of Civil Engineers (ASCE) Design of Marine Facilities Specification.

Firm employed by: Volkert, Inc.			
Ashley Beckendorf, PE *Roadway Design Engineer*		Years of relevant experience with this employer	7
		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS | 2008 | Civil Engineering	Year registered	2012
Active registration number / state / expiration date	37334 | LA | 3/31/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Ms. Beckendorf will serve as Roadway Design Engineer for the duration of this project. Ms. Beckendorf fufills MPR #8.

- FHWA-NHI-142005 NEPA and the Transportation Decision-making Process
- Traffic Engineering Analysis
- Process & Report - Module 2
- Traffic Engineering Analysis
- Process & Report - Module 3

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
13 years of experience	Ms. Beckendorf has over 12 years of design and engineering experience and expertise in delivering complex drainage, roadway, open space, and other capital projects for government clients. Over her career she has specialized in roadway engineering, sewer infrastructure design and drainage design. For the past six plus years, she has managed and assisted with managing several projects of complex nature and succeeded in keeping on schedule and maintaining great project outcomes. Before her management experience she worked on the East Baton Rouge Greenlight Program and East Baton Rouge Parish Sanitary Sewer Overflow Program, beginning from the preliminary stages to design, on through construction. With her experience working with EBR through these projects, combined with her knowledge of engineering and managerial experience give her the ability to make a very effective manager. She has managed every aspect of projects including geotechnical engineering, surveying & mapping, environmental studies and permitting, subsurface utility engineering, utility coordination, lighting, traffic studies and design, Right of Way Acquisition, drainage, and roadway design.
10/2015 - 09/2016	**I-10: Highland Road to LA 73 Supplemental Agreement No. 2, East Baton Rouge and Ascension Parishes, LA (LA DOTD) |** Volkert was contracted to perform and prepare an Interstate Modification Report (IMR) to analyze the existing roadway networks and identify the best alternatives to improve capacity the interchange at I-10 and LA 42. As one of the Project Engineers, Ms. Beckendorf assisted in managing the project tasks. She performed 15-minute queue length analyses. She performed a crash study, including a crash analysis of all the intersections, segments, and spots using LA DOTD manual for Crash Data Analysis and crash1b software, pulling crash reports, analyzing the overrepresentation, and drawing crash diagrams. Lastly, she has assisted in the time travel study. | State Contract No. 4400004915 SA 2, S.P. No. H.009250
05/2019 - 12/2021	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA (LA DOTD) |** Ms. Beckendorf is providing roadway design submittal review for Volkert's team. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
	providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the over- pass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6
05/2018 - 05/2019	**LA 929 at LA 930 Roundabout, Ascension Parish, LA (Ascension Parish Government) |** As project manager and lead engineer, Ms. Beckendorf coordinated all sub-consultants and supervised all work done on the project. This a new roundabout at LA 929 and LA 930. It consists of a one lane roundabout with a combination of ditch drainage and subsurface drainage.
04/2014 - 12/2014	**St. Landry Road – Edenborne Connector, Ascension Parish, LA (Ascension Parish Government) |** As Project Engineer, Ms. Beckendorf provided roadway design engineering including plan profiles, specifications, geometrics, typical cross sections, and striping and signing plans. For the sewer work, she designed gravity and force main lines and assisted with the design of the pump station and site layouts. The project consists of providing provide an environmental impact study, right away analysis, full roadway and utility design, and bid services for a divided facility that will connect St Landry Ave. and Edenborne Connector. Volkert is responsible for the initial preliminary information submittal through the 100% final design plan submittal.
05/2018 - 05/2019	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport) |** As project manager, Ms. Beckendorf coordinates between sub-consultants, between the airport, the FAA, and LA DOTD. She is responsible for the design of Plank Road (the new alignment), QA/QC of all components and supervision of all PE's, EI's, and technicians working on the project's design. This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection. This project is an Airport project, funded by FAA, but the road will be transferred to LA DOTD.

Firm employed by: Volkert, Inc.			
Jonathan Gambino, PE, PTOE, RSP1 *Roadway Design Engineer*		Years of relevant experience with this employer	2
		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	BS | 2012 |Civil Engineering	Year registered	2017
Active registration number / state / expiration date	41496 | LA | 9/30/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:

Mr. Gambino will serve as Roadway Design Engineer for the duration of this project. Mr. Gambino fufills MPR #8.

- LA DOTD Traffic Engineer Analysis Process & Report Module 1
- LA DOTD Traffic Engineer Analysis Process & Report Module 2
- LA DOTD Traffic Engineer Analysis Process & Report Module 3
- ATSSA Flagger

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10 years of experience	Mr. Gambino joined Volkert in 2020 and has 10 years of experience developing civil and traffic engineering plans, specifications and studies. This includes identifying and adhering to applicable state policies and procedures for project plan development. His experience includes the use of MicroStation, InRoads, AASHTOWare Project, VISSIM, Vistro, Synchro plus SimTraffic, Sidra Intersection, HCS, Tru-Traffic, AutoCAD, ACAD Civil 3D, CORSIM, TEAPAC, and TS/PP Draft programs. He is an ITE PTOE (#4433) and has obtained his ATSSA Flagger certification. LADOTD Traffic Training Complete. Mr. Gambino has TxDOT and the City of Austin experience through the CapEx North Project.
02/2020 –11/2021	**Joe Sevario Road at LA 933 Roundabout, Ascension Parish, LA (sub to SJB Group, LLC for Ascension Parish) |** Mr. Gambino is serving as Traffic Engineer for this project. SJB provided civil engineering, survey, SUE services and Volkert provided engineering support including development of a traffic study and geometric layouts for this roundabout to alleviate congestion and delays along this corridor.
10/2015 - 09/2020	**MacArthur Interchange Completion Phase II, Jefferson Parish, LA (LA DOTD)** | Mr. Gambino is serving as Traffic Engineer for this project. This project includes the removal of one-off ramp and the addition of another on and off ramp eastbound of the West Bank Expressway in New Orleans. He also has served as the QA/QC manager of the plans and design which has encompassed the review of the constructability of various design and detail options. An example is to recommend drilled shafts instead of driving piles to minimize interference with the ground traffic and problems with the vibration during pile driving and overrun pile pay quantities. The project presents several challenges to its designers given it requires the strategic removal of a portion of the existing bridge made of the prestressed concrete box girders and transitioning to its two new bridge ramps. Working within the existing right of way and managing the movement of traffic during construction is among other requirements and challenges. | S.P. No. H.011309.
09/2020 – 11/2022	**Owner Verification Services for College Drive Flyover Ramp (I-10/I-12 west) in East Baton Rouge Parish for the Louisiana Department of Transportation and Development (DOTD).** Mr. Gambino served as Traffic Engineer for this project that consisted of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Volkert provided all necessary engineering services as part of this Design-Build/Owner Verification project. This included design reviews for bridges, roads, hydraulics, electrical and ROW Acquisition efforts as well as contract administration, scheduling, document control, and construction phase services. | SP No. 4400019680, S.P. No H.013897.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/2017 - 02/2020	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport) |** Mr. Gambino served as Traffic Engineer for the design of Plank Road (the new alignment). This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection. This project is an Airport project, funded by FAA, but the road will be transferred to LA DOTD.
09/2020 - 09/2021	**Oak Harbor Replacement Bridge for LADOTD |** Mr. Gambino served as Project Manager. The bridge was struck by an excavator on a lowboy and several of the girders were damaged. Volkert provided a design and plans to repair the Oak Harbor bridge over I-10. The repair was designed is an in-place repair for any damaged prestressed girders as a result of the accident. Volkert followed the processes and procedures required by LADOTD to authorize the in-place repair. As a subconsultant to Kort Volkert reviewed as-build drawings and current inspection reports for the bridge prior to design, participated in field visits to perform damage assessments, and prepared a recommendation report that detailed the damages and load rating analysis to verify current capacity with current stresses on the structure. Volkert also provided as needed construction administration during the repairs.
Prior to Joining Volkert	**Jefferson Parish PW No. 2012-026-RB Leo Kerner Bike Bath Pedestrian Signal Design |** Mr. Gambino was the project engineer for signal modifications at the intersection of Leo Kerner at Barataria Blvd to include pedestrian signal heads and pedestrian clearance times. The signal modifications were part of a proposed bike path project located on Leo Kerner Pkwy. Mr. Gambino utilized MUTCD and LADOTD guidelines to propose timing and phasing to accommodate pedestrians while minimizing the impact to vehicular traffic. The proposed changes were provided in LADOTD latest TSI format.
Prior to Joining Volkert	**MSY North Terminal Fire Station Removal Operational Analysis |** Mr. Gambino was a project engineer tasked with evaluating the expected operating conditions in 2019 on Loyola Ave at the I-10 Interchange and at Veterans Memorial Boulevard and at the Airport North Terminal entrance/exit. The project objective was to analyze the study intersections with surface street improvements to determine the minimum street network for acceptable operating conditions once the North Terminal was opened. Mr. Gambino used existing Vissim models and updated them with projected volumes. The models were run, Measures of Effectiveness were compiled and the results were presented in a final report.
Prior to Joining Volkert	**Loyola Interchange IMR, Jefferson Parish |** Project engineer for an Interchange Modification Report in Kenner, LA. The Loyola interchange is recommended to be improved based on the relocation of the airport terminals which will divert traffic through this interchange. Mr. Gambino worked on traffic data collection, volume development, including isolating airport traffic from background volumes and determining the origin of airport related trips. Mr. Gambino also worked on and performed QA/QC for the VISSIM base model creation and model calibration, Alternative model development, MOE generation and comparison, conflict point analysis, and report development.

Firm employed by: Volkert, Inc.			
Randy Denmon, PE, PLS *Surveying/Civil Engineering*		Years of relevant experience with this employer	0.5
		Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization	MS / 1996 / Civil Engineering BS / 1991 / Mathematics	Year registered	1991
Active registration number / state / expiration date	29390 / LA PE / 03/31/2023 112101 / LA PLS	Discipline	Civil / Professional Land Surveyor

Contract role(s) / brief description of responsibilities:
Mr. Denmon is a Professional land surveyor, registered in the state in Louisiana, and will provide topographic survey services as needed.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
25 years of experience	Mr. Denmon has over 25 years' experience in surveying and civil engineering for clients such as: La. Department of Transportation, and other State Agencies, Watershed and Lake Districts, the NRCS, and many local governments. Mr. Denmon has extensive experience with Trimble, Microstation and Bentley computer aided design software: and the LADOTD's Location and Survey Procedures for both topographic and right of way surveys.
09/2015 - 06/2020	**LADOTD Contract No. 4400005894 Retainer Contract for Safe Routes to Schools and Local Road Safety Program.** Work included topographic and boundary surveying for five safe route projects., Contract Cost: $223,000.
02/2000 - 10/2016	**Fink's Hide-A-Way Road, Ouachita Parish, SP No. 700-24-0087.** Engineer/Surveyor for Line & Grade Study, Preliminary and Final Design for widening approximately 3 miles of Urban Roadway to 5 lanes. Project Designed for two (2) phases. Approx. cost of construction $18,000,000. Eng. Contract. $1,600,000.
06/2017 - 02/2022	**LADOTD IDIQ Contract for Engineering and Inspection Services of State Regulated Dams Majority Of Work In Districts 04, 05, 08 And 58.** Work included Inspection and topographic surveying on LADOTD owned or regulated dams. Contract Value: $1,500,000.
03/2009 - 12/2011	**Oliver Road Widening and Overlay, S.P.N. 742-37-0019, F.A.P.N ARR-3709(504).** Project Manager and surveyor. Construction Cost: $2,200,000. Mr. Denmon completed all surveying, drainage, and geometric design for this project, and oversaw the completion of all final plans, as well as Construction Engineering and Inspection utilizing the LADOTD's Site Manager Program. Contract Cost: $275,000.
02/2000 - 11/2004	**Route LA 818 and LA 150, SPN NO. 700-31-0110 Lincoln Parish.** Surveyor and Project Engineer, Construction Cost: Aprox. $2,200,000. Mr. Denmon worked on topographic and R-O-W surveying, drainage and geometric design for this project, and oversaw the completion of all final plans. Contract Cost: $660,000.

Firm employed by: Volkert, Inc.			
Aaron Immel, PE, CFM, CBI, CTI *Project Manager/Certified Diver*		Years of relevant experience with this employer	27
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS | 1994 | Civil Engineering (emphasis on Structures)	Year registered	2000
Active registration number / state / expiration date	29153 | LA | 03/31/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Professional civil engineer, registered in the state of Louisiana, and will be responsible for managing bridge design and inspection of bridge structures.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
27 years of experience	Mr. Immel has 27 years of structural engineering and NBIS bridge inspection experience, including for LADOTD, FDOT, TxDOT, TDOT, ODOT, SCDOT, MDOT, OSARC, ALDOT, NASA, and FHWA-EFLHD. His expertise includes the inspection of most bridge types including truss, post-tensioned box girder, and moveable bridges; element level bridge inspections; underwater inspections; the inspection of fatigue-prone details and fracture-critical members; load ratings; and all levels of scour evaluations. Mr. Immel has traveled around the country investigating and analyzing a broad variety of structural configurations. Since 2005, Mr. Immel has served as the Bridge Inspection Manager for the Gulf Region. He allocates appropriate personnel and resources to each location to facilitate prompt delivery of quality inspections and reports. Currently, he is responsible for the design and supervision of personnel in the completion of bridge inspection and structural engineering projects, including non-destructive evaluations, and scour evaluations.
07/2005 - 02/2022 est.	**Principal-in-Charge/Project Manager, Dive Team Leader and Underwater Inspector for Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division (EFLHD) of FHWA.** 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. This is an IDIQ contract assigned by individual task orders to identify structural or functional deficiencies and make recommendations and cost estimates for repairs. These facilities include national parks, battlefields, monuments, historic sites, parkways, and other federal facilities. 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.
08/2013 - 08/2021	**Principal-in-Charge for Complex Bridge Inspection Consulting Engineering Contract, for the Office of State Aid Road Construction (OSARC).** Volkert was the prime consultant on these contracts which consisted of performing NBIS inspections and load ratings on complex bridges with various superstructure types which include; simple steel girders, continuous steel plate girders, steel trusses, movable bridges, precast concrete spans, prestressed girders, reinforced concrete tee-beams, reinforced concrete slabs, timber stringers, and concrete culverts with numerous structures having fracture critical members. Also, AASHTO element level inspections were performed on bridges located on NHS routes. For each bridge inspected, Volkert developed a bridge inspection

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
	plan which outlined access method and equipment required, traffic control requirements, inspection time, inspection personnel requirements, and railroad permit requirements including contact information and permit acquisition procedure. The inspections were performed on schedule; and the reports and load ratings were completed within the contract ending dates.
09/2017 - 08/2020	**Principal-in-Charge for Timber Bridge Inspection IDIQ Master Contract, for the Office of State Aid Road Construction (OSARC).** Volkert is the prime consultant on this master agreement, which consists of performing NBIS safety inspections, performing load ratings, performing on-call repair inspections, and providing maintenance and repair recommendations on bridges with timber substructures and/or timber superstructures. For all bridges, a load rating was performed on the superstructure and substructure with posting and closure recommendations provided by the OSARC Critical Finding Process. The inspections were completed on schedule within the short time period provided, and the reports and load ratings were completed within the work assignment ending dates. Volkert has developed a good working relationship with the respective county engineers to keep them promptly informed of any critical issues that would require urgent attention by the counties.
08/2020 - Present	**Principal-in-Charge/Project Manager for FDOT District 6: District Wide In-Depth State Bridge Inspection.** Volkert is currently inspecting an estimated total of 287 bridges for FDOT District 6. Our inspection staff provides routine inspection for fixed and movable bridges, post rehabilitation inspections, in-service inspections, post repair inspections, underwater inspections, fracture critical, gusset plates in trusses, interim inspections and emergency inspections. Portions of this inventory include 59 underwater Inspections;15 mechanical and electrical; six concrete segmental and 24 fracture critical. All inspections are in accordance with national and state practices ensuring that all bridges are accurately load rated and posted, if necessary and properly maintained with no critical deficiencies.

Firm employed by: Volkert, Inc.			
Britt Bumpers, PE, CBI, CTI *Bridge Inspection / Civil Engineering*		Years of relevant experience with this employer	25
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BCE / 1996 / Civil Engineering	Year registered	2002
Active registration number / state / expiration date	30046 / LA / 09/30/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Bumpers will perform bridge inspections for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
25 years of experience	Mr. Bumpers joined Volkert in 1996 as a Civil Engineer responsible for the design of roadway and bridge projects. His experience includes design services for bridge replacements, feasibility studies, traffic analysis, and capacity analysis. In 2015, he joined the Bridge Inspection Department and will be responsible for assisting in performing topside bridge inspections, scour evaluations, review/development of the respective reports, and bridge load ratings. ▼ NHI Safety Inspection of In- Services Bridges ▼ NHI Tunnel Safety Inspection ▼ NHI Fracture Critical Inspection Techniques for Steel Bridge ▼ BrM/Element Inspection Refresher Course (ALDOT)
07/2002 - 3/2022 est.	Nationwide Bridge Inspection Services (Eastern Federal Lands Highway Division (EFLHD) of FHWA). Mr. Bumpers served as Team Leader/Tunnel Inspector and provided Load Rating Assessments. Volkert has been selected for three consecutive cycles, beginning 2005, by the Eastern Federal Lands Highway Division (EFLHD) of the Federal Highway Administration (FHWA) to provide National Bridge Inspection Standard (NBIS) and element level inspections for structures owned by the National Park Service (NPS) and other federal agencies. This is an IDIQ, with a $10M up-set limit over each 5-year cycle, assigned by individual task orders to identify structural or functional deficiencies, and make recommendations and cost estimates for repairs. For each task order, Volkert is responsible for providing routine, interim, or initial inspections of identified structures, then completing bridge and tunnel inspection reports. Under these contracts, Volkert has performed nearly 5,000 bridge inspections and over 900 load rating assessments in 45 states and Washington, DC including the entire length of the Blue Ridge Parkway and Natchez Trace Parkway.
07/2002 - 12/2021	Structural Engineering and Inspection Services throughout Atlanta, Georgia (Metropolitan Atlanta Rapid Transit Authority (MARTA). Mr. Bumpers served as Team Leader/Tunnel Inspector and provided Load Rating Assessments. Volkert has been selected as the prime consultant for this task order-bases contract,

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
09/2021 - 09/2031 (est.)	which consists of providing MARTA with Structural Engineering & Inspection Services including 16 miles of heavy rail transit aerial structures, 37 tunnels, and vehicular bridges with various types of site access conditions and 14 aerial stations. MARTA oversees the heavy rail transit systems throughout Atlanta, Georgia. A breakdown of MARTA's aerial structures by superstructure type is as follows: 4.64 miles of steel box girders; 1.40 miles of steel plate girders; 0.06 miles of rolled shape steel; 1.5 miles of pre-cast segmental concrete box girders; 5 miles of cast-in- place concrete box girders; 3.23 miles of AASHTO concrete girders; 0.12 miles of concrete thru-girders; and 0.02 miles of concrete flat slab bridges. The aerial structures are over local streets, private property, creeks, and railroads. Volkert was also responsible for the initial element level inspection of 36 rail tunnels that accounted for approximately 9 miles of MARTA's transit rail system. These detailed, "hands on" inspections were performed during non-peak hours with coordinated track closures at nights and on weekends. Volkert's team produced detailed tunnel inspection plans and reports of their findings with recommendations of maintenance and rehabilitation needs.
08/2013 - Present	Engineer & Bridge Inspector for Complex Bridge Inspection Consulting Engineering Contract, for the Mississippi Department of Transportation, Office of State Aid Road Construction (OSARC). The project consists of NBIS inspections, scour evaluations, and load ratings of selected bridge sites. The bridges are owned and maintained by the various counties, cities, and towns throughout the state of Mississippi. These bridges include steel bridges with fracture critical members, specifically continuous plate girders, steel girders, railroad flat cars, and movable bridges. These bridges also include approach spans made of timber, precast concrete, or prestressed concrete beam spans. For each bridge inspected, Volkert developed a bridge inspection plan which outlined access method and equipment required, traffic control requirements, railroad permit requirements including contact information and permit acquisition procedures, and inspection time and personnel requirements.
04/2021 - 03/2022	Engineer & Bridge Inspector for IDIQ Contract for Tunnel Inspections (LADOTD). This project consists of conducting in-depth tunnel inspections statewide and development of inspection reports and rehabilitation plans, as necessary. The inspections included the identification of anomalies or deficiencies at the tunnels that required immediate attention via visual and hands-on inspections of all structural components, non-destructive testing, visual inspections of mechanical and electrical components (ventilation/pumps etc.), and visual inspections of maintenance and preservation efforts. The team also developed tunnel inspection reports that highlighted necessary repairs and any replacements that need to be made at the sites. The report included condition states, element notes, pictures, and sketches of any noted deficiencies. Volkert is a subconsultant to Mott MacDonald providing inspection support services at all three tunnels. To date, Volkert has provided structural inspection assistance to Mott MacDonald at the Houma, Harvey, and Belle Chasse tunnels in southeastern Louisiana.

Firm employed by: Volkert, Inc.			
Stephen Dossett, PE, CBI, CTI *Bridge Inspection / Civil Engineering*		Years of relevant experience with this employer	7
		Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering	Year registered	2013
Active registration number / state / expiration date	38365 / LA / 03/31/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Dossett will perform bridge inspections for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
16 years of experience	Mr. Dossett worked at Volkert from 2013-2016 and rejoined Volkert in 2018 and has over 16 years of experience. He assists in the completion of bridge inspections and conceptual plans for bridge improvement projects.
07/2005 - 03/2022 est.	**Project Engineer/Bridge Inspector for Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division (EFLHD).** Volkert has been selected since 2005 by the Eastern Federal Lands Highway Division (EFLHD) of the Federal Highway Administration (FHWA) to provide National Bridge Inspection Standard (NBIS) and Pontis element level inspections for structures owned by the National Park Service (NPS) and other federal agencies. These facilities include national parks, battlefields, monuments, historic sites, parkways, and other Federal facilities. This is an Indefinite Delivery Indefinite Quantity Contract (IDIQ), with a $10 million up-set limit over each 5-year cycle, assigned by individual task orders to identify structural or functional deficiencies, and make recommendations and cost estimates for repairs. 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. Once 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, and submits them to the FHWA in the EFLHD's special inspection software format.
07/2014 - 01/2019	**Project Manager for the I-59/I-20 Bridge Rehabilitation for Alabama Department of Transportation (ALDOT).** Volkert was contracted by the Alabama Department of Transportation (ALDOT) to provide engineering services and construction plans to reconstruct the I-20/I-59 interchange located in the Birmingham Business District. The existing bridge, constructed in the 1970's, extends from just east of the I-20/I-59 and I-65 interchange to US 31. I-20/I-59 serves to connect Birmingham with Tuscaloosa, Gadsden, Chattanooga, Atlanta and a number of other smaller cities and towns in the Southeast. I-20/I-59 is the only east-west interstate through the Birmingham CBD and is primarily an elevated six-lane divided highway (three-lanes in each direction) with minimal inside and outside shoulder widths through the 3.5-mile area.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
09/2017 - Present	**Project Manager for Timber Bridge Inspection IDIQ Master Contract, for the Office of State Aid Road Construction (OSARC).** Volkert is the prime consultant on this master agreement, which consists of performing NBIS safety inspections, performing load ratings, performing on-call repair inspections, and providing maintenance and repair recommendations on bridges with timber substructures and/or timber superstructures. For all bridges, a load rating was performed on the superstructure and substructure with posting and closure recommendations provided by the OSARC Critical Finding Process. The inspections were completed on schedule within the short time period provided, and the reports and load ratings were completed within the work assignment ending dates. Volkert has developed a good working relationship with the respective county engineers to keep them promptly informed of any critical issues that would require urgent attention by the counties.
2013 - 2016	**QA Manager/Project Engineer for Multiple Cycles of the Local Government Bridge Inspection Program for the Florida Department of Transportation (FDOT), District Three.** This local government bridge inspection project includes bridge inspection services of approximately 900 locally owned bridges in District Three including city-owned bridges in Tallahassee, Panama City, and numerous other cities in the Florida panhandle. Under the contract, Volkert is responsible for identifying all deficiencies as well as determining and recording the structural condition of each bridge based on PONTIS element-level condition criteria. As a part of the inspection, the main structural elements are given a NBI rating; and a detailed report, including photographs and deficiency sketches.

Firm employed by: Volkert, Inc.			
Matt Burnett, PE, CBI, ADCI, CTI *Dive Team Leader*		Years of relevant experience with this employer	10
		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering	Year registered	2021
Active registration number / state / expiration date	45464 / LA / 09/30/2023	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Burnett will lead the dive team for the duration of this project and perform bridge inspections and underwater inspections for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11 years of experience	Mr. Burnett has more than 11 years of experience as a Professional Engineer, NBIS Team Leader, Certified Bridge Inspector, Certified Tunnel Inspector and ADCI Commercial Diver. He conducts topside and underwater structure 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 structures inspection projects for State DOTs, local agencies, and federal clients nationwide. Mr. Burnett's expertise also includes the analysis of in-service structures and legal posting requirements. He has supervised and performed the analysis of nearly 1,000 structures across the country including post-tensioned segmental box girders, railroad flatcars, timber structures, steel trusses and box girders, concrete slab units, and steel and concrete girders.
07/2005 - 03/2022 est.	**Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division (EFLHD) of the Federal Highway Administration (FHWA).** Mr. Burnett serves as Team Leader, Underwater Inspector. He provides Scour Evaluations and Load Ratings. Volkert was selected in 2005, 2010, and again in 2015 to provide NBIS and Pontis element level inspections for structures owned by NPS and other federal agencies. This is an IDIQ assigned by individual task orders to identify structural or functional deficiencies and make recommendations and cost estimates for repairs. For each task order, Volkert provides routine, interim, or initial inspections of identified structures, then completes bridge inspection reports. Under these contracts, Volkert has performed inspection services for nearly 4,400 structures in 45 states and Washington, DC including 161 USFS structures in regions 1, 2, 3, 4, 5, 8, and 9.
08/2018 - Present	**Underwater Bridge Inspection, Statewide for MDOT, Office of State Aid Road Construction (OSARC).** Mr. Burnett serves as Underwater Bridge Inspector. Volkert teamed with Collins Engineers for underwater investigation, evaluation, and recommendation of repairs of 82 bridge substructures ranging from small stream crossings to large cable-stayed structures. A Level I inspection was conducted on underwater components, as well as a 10% Level II inspection and random Level III procedures as determined necessary in the field.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
2010 - 2018	**Local Government Bridge Inspection Program, Cycle 14-16, FL, FDOT District 3.** Mr. Burnett served as Bridge Inspector, performed load ratings and was a part of the scour and dive team staff. This local government bridge inspection project includes bridge inspection services of approximately 900 locally owned bridges in District Three. Under the contract, Volkert was responsible for identifying deficiencies as well as determining and recording the structural condition of each bridge based on PONTIS element-level condition criteria. Volkert held this contract in 2-year cycles from 1988 - 2018.
08/2013-Present	**Statewide Complex Bridge Inspections for the Mississippi Department of Transportation Office of State Aid Road Construction (OSARC).** Mr. Burnett served as Team Leader/Load Rating Engineer. The project included approximately 104 structures in 15 counties, four movables (bascule, swing, and lift). The team performed load ratings on all structures inspected.
2015 - 2017	**Region-wide Bridge Inspection Services for Tuscaloosa/Fayette Areas for ALDOT West Central Region.** Mr. Burnett served as Project Manager. Volkert provided over 100 bridge inspections along various routes throughout the Region on a weekly basis. Volkert bridge inspection team obtained measurements of bridge components to conduct a bridge element analysis, developed inspection reports, and entered the data in the BrM program.
2015 - 2016	**Asset Maintenance Safety Inspections, Franklin, Gulf, Jefferson, Liberty, and Wakulla Counties, FL, FDOT District 3.** Mr. Burnett served as Bridge Inspector, performed load ratings and was a part of the scour and dive team staff.

Firm employed by: Volkert, Inc.			
Robert Scheeler, PE, CBI, CTI *Civil Engineer / Bridge Inspection*		Years of relevant experience with this employer	6
		Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization	BS / 1992 / Civil Engineering	Year registered	2019
Active registration number / state / expiration date	43973 / LA / 03/31/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr. Scheeler will perform bridge inspections for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
30 years of experience	Mr. Scheeler serves as a Project Manager and Team Leader for Volkert's Gulf Region in Mississippi. He has served as project manager for numerous bridge inspection projects and has performed hundreds of topside inspections. He brings over 27 years of experience managing construction projects and performing bridge inspections for bridges of all types including fracture critical structures.
08/2013 - Present	**Project Manager for Complex Bridge Inspection Consulting Engineering Contract, for the Office of State Aid Road Construction (OSARC).** Volkert was the prime consultant on these contracts which consisted of performing NBIS inspections and load ratings on complex bridges with various superstructure types which include simple steel girders, continuous steel plate girders, steel trusses, movable bridges, precast concrete spans, prestressed girders, reinforced concrete tee-beams, reinforced concrete slabs, timber stringers, and concrete culverts with numerous structures having fracture critical members. Also, AASHTO element level inspections were performed on bridges located on NHS routes. For each bridge inspected, Volkert developed a bridge inspection plan which outlined access method and equipment required, traffic control requirements, inspection time, inspection personnel requirements, and railroad permit requirements including contact information and permit acquisition procedure. The inspections were performed on schedule; and the reports and load ratings were completed within the contract ending dates.
09/2017 - 08/2020	**Project Manager for Timber Bridge Inspection IDIQ Master Contract, for the Office of State Aid Road Construction (OSARC).** Volkert is the prime consultant on this master agreement, which consists of performing NBIS safety inspections, performing load ratings, performing on-call repair inspections, and providing maintenance and repair recommendations on bridges with timber substructures and/or timber superstructures. For all bridges, a load rating was performed on the superstructure and substructure with posting and closure recommendations provided by the OSARC Critical Finding Process. The inspections were completed on schedule within the short time period provided, and the reports and load ratings were completed within the work assignment ending dates. Volkert has developed a good working relationship with the respective county engineers to keep them promptly informed of any critical issues that would require urgent attention by the counties.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
10/2019 - Present	**Project Manager for Non-complex Load Ratings, for the Office of State Aid Road Construction (OSARC).** Volkert is responsible for conducting load rating assessments using BrR on assigned bridges and coordinating with OSARC and the local owners to legally post deficient bridges. Volkert's staff is coordinating with the local owners, to assist them with repairs that the county or city maintenance crews may be able to perform and to ensure that the bridges with compromised load capacity are posted correctly.
10/2016 - 03/2019	**Project Manager for Bridge Inspections at John C. Stennis Space Center in Mississippi, Syncom Space Services.** Since 2016, Volkert has been contracted by Syncom Space Services (S3) to perform bridge inspection services for the structures located within the John C. Stennis Space Center (SSC) for the National Aeronautics and Space Administration (NASA). Volkert has conducted the biannual, element level inspections of the bridges and culverts including development of inspection plans and load rating analyses and detailed Level 1 scour assessments of each structure. In addition to the routine inspections, Volkert developed the movable bridge inspection plan for the routine and in-depth inspections of the double leaf bascule bridge, and performed the fracture critical, mechanical, and electrical inspections for the structure. In 2018 Volkert performed an inspection of the newly upgraded electrical system and conducted a Failure Mode & Effect Analysis (FMEA) of the bascule bridge and navigational lock which are vital for the transport of cryogenic propellants to the testing sites located on SSC.

Firm employed by: SUBS			
Paul Swann, CBI, Certified Diver *Certified Bridge Inspector*		Years of relevant experience with this employer	18
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	N/A	Year registered	N/A
Active registration number / state / expiration date	634 / AL CBI / 2023 440 / FL CBI / 2024	Discipline	Bridge Inspection

Contract role(s) / brief description of responsibilities:
Mr. Swann will perform bridge inspections and underwater inspections for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
18 years of experience	Volkert and Associates, Inc.—Mr. Swann joined Volkert in 2004 and serves as a Bridge Inspector and member of Volkert's Underwater Bridge Inspection Team (Dive Team Member). His project experience includes bridge inspection and bridge scour analysis. He is responsible for the coordination of Volkert's dive team schedule and handles the maintenance of all bridge inspection equipment and vehicles in the structural department. Mr. Swann's specific project Bridge Inspection experience includes:
07/05-08/22 est.	**Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division (EFLHD) of the Federal Highway Administration (FHWA).** Mr. Swann serves as a bridge and tunnel inspector and underwater inspector. Volkert was selected in 2005, 2010, and again in 2015 to provide NBIS and Pontis element level inspections for structures owned by NPS and other federal agencies. This is an IDIQ assigned by individual task orders to identify structural or functional deficiencies and make recommendations and cost estimates for repairs. For each task order, Volkert provides routine, interim, or initial inspections of identified structures, then completes bridge inspection reports. Under these contracts, Volkert has performed inspection services for nearly 4,400 structures in 45 states and Washington, DC including 161 USFS structures in Regions 1, 2, 3, 4, 5, 8, and 9.
2006-2018	**Assistant Bridge Inspector and Dive Team Member for the I-10 Twin Span Quarterly Bridge Inspection for the I-10 bridge over Lake Pontchartrain Louisiana Department of Transportation and Development (DOTD).** Volkert completed a bridge inspection report on both the eastbound and Westbound sections of the I-10 Bridge Over Lake Pontchartrain for the Louisiana DOTD. In order for the Louisiana DOTD to be able to provide accurate bid documents for repairs to the I-10 Lake Pontchartrain Bridge after it was damaged during Hurricane Katrina, the Louisiana DOTD selected Volkert to perform damage assessment inspections on the structures. Both the eastbound and westbound bridges were damaged, with spans in the water, shifted or missing. The eastbound bridge had 38 spans in the water, 170 spans shifted, but no bents missing. The westbound bridge had 26 spans in the water, 303 shifted, and 1 bent missing. The westbound approach roadway had significant undermining of existing concrete paving and required replacement of the flowable fill. Major issues observed included corroded shear studs, broken barrier rails, and misalignment of spans. Existing navigation lights were damaged and not functional after the storm, so immediate repairs recommended included the installation of solar-powered navigation lights to ensure maritime traffic safety. Elevated sections of the

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
	bridges were found to be in good condition. Volkert was responsible for performing National Bridge Inspection Standards (NBIS) bridge inspections and assisting with the completion of the final report on recommended repairs. Monthly under and above-water inspections of the bridge structure will continue until the bridge replacement is complete. Mr. Swann was responsible for assisting with the topside inspections and underwater inspections (#515800.30 Initial assessment contract; # 515801.30; #515802.30 Plan review; #515803.30 CEI services; #515804.30- bridge inspection of east and westbound sections; #515805.30 WIM Design)
08/13-Present	**Assistant Inspector for Complex Bridge Inspection Consulting Engineering Contract, for the Office of State Aid Road Construction (OSARC).** Volkert was the prime consultant on these contracts which consisted of performing NBIS inspections and load ratings on complex bridges with various superstructure types which include; simple steel girders, continuous steel plate girders, steel trusses, movable bridges, precast concrete spans, prestressed girders, reinforced concrete tee-beams, reinforced concrete slabs, timber stringers, and concrete culverts with numerous structures having fracture critical members. Also, AASHTO element level inspections were performed on bridges located on NHS routes. For each bridge inspected, Volkert developed a bridge inspection plan which outlined access method and equipment required, traffic control requirements, inspection time, inspection personnel requirements, and railroad permit requirements including contact information and permit acquisition procedure. The inspections were performed on schedule; and the reports and load ratings were completed within the contract ending dates.
2005-2006	**Assistant Inspector for the Bulkhead Inspections in Bayou La Batre, Alabama for the City of Bayou La Batre Port Authority.** Volkert completed visual inspections for multiple sites in Bayou La Batre associated with the Bayou La Batre Channel Improvements Project. Inspections consisted of 127 cleats, 148 concrete caps, 152 timber piles, and 135 pile straps, looking for corrosion, erosion, missing bents or piles, and structural problems. Recommendations for repairs were made in a report to the Port Authority.

Firm employed by: Volkert, Inc.			
Jeffrey "Todd" Powell, CBI *Bridge Inspector / Underwater Diver*		Years of relevant experience with this employer	14
		Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization	N/A	Year registered	N/A
Active registration number / state / expiration date	629 / AL CBI / 2023 377 / FL CBI / 2024	Discipline	Bridge Inspection

Contract role(s) / brief description of responsibilities:
Mr. Powell will perform bridge inspections and underwater inspections for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
35 years of experience	Mr. Powell joined Volkert in 2006 and has over 20 years of experience in the topside and underwater inspection of bridges, including timber, concrete, steel and pipe culvers. He is experienced in Element Level, BrM, and CID coding procedures and policies. He is a certified Bridge inspection in Alabama (#629) and Florida (#377) and is also a PADI Advanced Open Water Diver #0110393606. Professional Training includes: ▼ NHI Non-Destructive Testing Methods for Steel Bridges ▼ NHI Safety Inspection of In-Service Bridges ▼ NHI Underwater Bridge Inspection ▼ NHI Fracture Critical Inspection Techniques for Steel Bridges ▼ NHI Inspection and Maintenance of Ancillary Highway Structures ▼ NHI Stream Stability and Scour at Highway Bridges for Bridge Inspectors
07/05-03/2022 est.	**Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division (EFLHD) of the Federal Highway Administration (FHWA).** Scour Evaluations, Team Leader, Underwater Inspector. Volkert was selected in 2005, 2010, and again in 2015 to provide NBIS and Pontis element level inspections for structures owned by NPS and other federal agencies. This is an IDIQ assigned by individual task orders to identify structural or functional deficiencies and make recommendations and cost estimates for repairs. For each task order, Volkert is responsible for providing routine, interim, or initial inspections of identified structures, then completing bridge inspection reports. To date, Volkert has performed over 4,900 bridge inspections and over 800 load rating assessments in over 45 states and Washington, DC.
09/17-08/2020	**Timber Bridge Inspection IDIQ Master Contract, for the Office of State Aid Road Construction Office of State Aid Road Construction.** Bridge Inspector. The work assignments include all timber substructure or timber superstructure as requested by OSARC. Volkert's bridge inspectors are conducting an NBIS safety inspection; developing load ratings for each bridge and providing recommendations when the rating needs to be adjusted; developing maintenance and repair recommendations as required; and developing plans/cost estimates for maintenance and repair recommendations.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
08/13 - Present	**Complex Bridge Inspection Consulting Engineering Contract, for the Office of State Aid Road Construction Office of State Aid Road Construction.** Bridge Inspector/Dive Team Member. The bridges included in this contract consisted of steel bridges with fracture critical members, specifically continuous plate girders, steel girders, railroad flat cars, and movable bridges. These bridges also included approach spans made of timber, precast concrete, or prestressed concrete beam spans. For each bridge inspected, Volkert developed a bridge inspection plan which outlined access method and equipment required, traffic control requirements, railroad permit requirements including contact information and permit acquisition procedures, and inspection time and personnel requirements.
2006 -2018	**Multiple Cycles of the Local Government Bridge Inspection Program for FDOT, District Three. Bridge Inspector/Dive Team Member.** This local government bridge inspection project includes bridge inspection services of approximately 900 locally owned bridges in District Three including city-owned bridges in Tallahassee, Panama City, and numerous other cities in the Florida panhandle. Under the contract, Volkert is responsible for identifying all deficiencies as well as determining and recording the structural condition of each bridge based on PONTIS element-level condition criteria. As a part of the inspection, the main structural elements are given a NBI rating; and a detailed report, including photographs and deficiency sketches.
2006 -2019	**Fracture-Critical Inspection of Truss Bridges in Morgan and Madison Counties, Alabama for ALDOT | Bridge Inspector.** Following the collapse of the I-35W Mississippi River Bridge in Minnesota, ALDOT contracted Volkert to perform fracture-critical inspections and load rating reviews of two of the State's major truss bridges the US 31 over the Tennessee River bridge in Morgan County and the US 231 over the Tennessee River at the Morgan-Madison County Line. Volkert built load rating models of both bridges. After publication of the gusset plate findings in Minnesota, ALDOT contracted Volkert to perform further special inspections of the gussets, which was used to create a GT STRUDL model to analyze each connection.

Firm employed by: Volkert, Inc.			
Anthony Bibelhauser, CBI *Certified Bridge Inspector*		Years of relevant experience with this employer	20
		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	Commercial Diving School	Year registered	N/A
Active registration number / state / expiration date	359 / FL CBI / 2028 0006 / FL CTI / 2022	Discipline	Certified Bridge Inspector / Diver

Contract role(s) / brief description of responsibilities:
Mr. Bibelhauser will perform bridge inspections and diving duties for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
28 years of experience	Mr. Bibelhauser has more than 28 years of structural inspection experience. He has experience as a CBI/Diver for the state of Florida in FDOT Districts 1 and 7 and is a Certified Tunnel Inspector. Mr. Bibelhauser has performed hundreds of inspections as a team leader on fixed, movable, and long structures. His experience also includes inspection of sign structures and construction works, also, he is a certified commercial diver. Mr. Bibelhauser's training and certifications include: ▼ FHWA-NHI No. 130053, Bridge Inspection Refresher Training ▼ FHWA-NHI No. 130055, Safety Inspection of In-Service Bridges ▼ FHWA-NHI No. 130078, Fracture Critical Inspection Techniques for Steel Bridges ▼ FHWA-NHI No. 130087, Inspection and Maintenance of Ancillary Highway Structures ▼ FHWA-NHI-130110, Tunnel Safety Inspection ▼ OSHA 10-Hour Construction Industry Safety and Health Outreach Training Program ▼ FDOT Central Office - BrM User Training Course ▼ FDOT Temporary Traffic Control (TTC) No. 68303 ▼ FDOT Computer Security Awareness Training ▼ Aspen Aerials ANSI A92.22 and A92.24 Type 2 Group B Underbridge MEWPs ▼ Red Cross First Aid/CPR/AED
2018-Present	**Indian River County Asset Maintenance, Indian River County, FL, FDOT District 4.** Mr. Bibelhauser is serving as Bridge Inspector. This project involves bridge inspections services and engineering support for a ten year long FDOT asset maintenance project. Inspection services includes routine and special inspections of 27 bridges including four long bridges and four over-lane signs in Indian River County in FDOT District 4. Engineering support includes post storm response, incident response, repair design and load rating. Volkert is providing cost saving measures such as consolidating the inspection schedule and coordinating special access equipment and underwater inspection teams at the large bridges to ensure optimal structural coverage.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
01/2015 - 12/2022	**Structure Asset Maintenance (SAM) District Wide Structure Inspection, FL, FDOT Districts 1 and 7.** Mr. Bibelhauser serves as Bridge Inspector. The project provides structures inspection and maintenance design involving approximately 1,100 bridges and 1,250 TSMAs. Bridge types range from long bridges (Howard Frankland and Gandy bridges) to long segmental post-tension bridges (Selmon-Crosstown Expressway) to local timber bridges and concrete culverts. These structures are both state and locally owned. Volkert is teamed with ICA on this project and performs inspections (including initial inspections), incidental engineering and emergency response services (design CEI). Additionally, Volkert provides engineering services to include emergency repair design, CEI, survey, and load ratings.
2011 - 2014	**South Structure Asset Maintenance (SAM) District Wide Bridge Inspection, FL, FDOT District 1.** Mr. Bibelhauser served as Bridge Inspector. The project provided structures inspection and maintenance design involving approximately 1,000 bridges. Bridge types range from long bridges (I-75 over Peace River and the Edison Bridges) to continuous steel box girders to local timber bridges and concrete culverts. These structures are both state and locally owned. Volkert teamed with ICA on this project and performed inspections (including initial inspections), incidental engineering and emergency response services. Additionally, Volkert provided coordination with local owners, recommendations of structure repairs, engineering evaluation, and load ratings.
08/2010 - 01/2016	**District Wide State Complex Bridge Inspection, FL, FDOT District 2.** Mr. Bibelhauser served as Bridge Inspector and managed subcontractors on-site, organized and updated deficiency tables, and operated under bridge inspection vehicles, bucket trucks, man lifts and boats. The project was for the planning and execution of routine and interim bridge inspections of approximately 30 large, cable stayed and complex bridges on the State highway system. Fixed bridges include the Buckman and Fuller Warren long bridges, Hart and Mathews through truss bridges, complex interchange bridges on I-10 and I-95 (all in Jacksonville), and the Hal Adams Suspension Bridge in Suwannee County. Movable bridges included the Main Street Lift Bridge in Jacksonville and the Bridge of Lions in St. Augustine. Special inspection methods were required for the gusset plates on the truss bridges. Rigging and climbing was required to access portions of the truss bridges. Inspection reports were created in a Pontis format and include very large report addendums. Additional tasks included pile length testing, Phase II, III and IV Scour Evaluation and paint inspection utilizing the new National Bridge Elements.

Firm employed by: Volkert, Inc.			
Davey Smith *Bridge Inspector*		Years of relevant experience with this employer	4
		Years of relevant experience with other employer(s)	35
Degree(s) / Years / Specialization	N/A	Year registered	N/A
Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Smith will serve as an Assistant Bridge Inspector for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
39 years of experience	Mr. Smith has 39 years of experience, including 29.5 years with MDOT where he served as permit officer, maintenance analyst and assistant to the District Maintenance and Assistant Maintenance Engineers. Mr. Smith has vast experience in the inspection and maintenance of transportation and infrastructure. As a maintenance analyst with MDOT, he conducted surveys of roadway corridors to check conditions of pavement, drainage, signs, legends and other roadway features. He also serves as an assistant bridge inspector.
08/2019 - Present	**Bridge Inspector, Complex Bridge Inspection Consulting Engineering Contract, for the Office of State Aid Road Construction (OSARC).** The bridges included in this contract consisted of steel bridges with fracture critical members, specifically continuous plate girders, steel girders, railroad flat cars, and movable bridges. These bridges also included approach spans made of timber, precast concrete, or prestressed concrete beam spans. For each bridge inspected, Volkert developed a bridge inspection plan which outlined access method and equipment required, traffic control requirements, railroad permit requirements including contact information and permit acquisition procedures, and inspection time and personnel requirements.
08/2019 - 08/2020	**Bridge Inspector, Timber Bridge Inspection IDIQ Master Contract, for the Office of State Aid Road Construction.** The work assignments included any timber sub structure or timber superstructure as requested by OSARC. Volkert's bridge inspectors conducted an NBIS safety inspection; developed load ratings for each bridge and provided recommendations when the rating needed to be adjusted; developed maintenance and repair recommendations as required; and developed plans/cost estimates for maintenance and repair recommendations.

Firm employed by: Volkert, Inc.			
Barry Fagan, PE, PLS, ENV SP, CPMSM, CPESC, CESSWI *Environmental/Permitting*		Years of relevant experience with this employer	6
		Years of relevant experience with other employer(s)	29
Degree(s) / Years / Specialization	BS | 1994 | Civil Engineering	Year registered	2017
Active registration number / state / expiration date	41589 | LA | 39/30/2023	Discipline	Civil

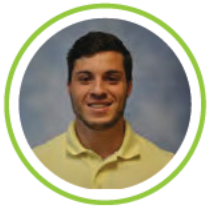
Contract role(s) / brief description of responsibilities:
Mr. Fagan will be available to provide environmental and permitting services for this project.

- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Erosion Sediment and Storm Water Inspector (CESSWI)
- Certified Professional in Municipal Stormwater Management (CPMSM)
- Envision Sustainability Professional (ENV SP)
- MDOT Certified Stormwater Inspector

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
35 years of experience	Mr. Fagan has over 30 years of experience in areas that include post-construction and construction stormwater management, road and bridge construction, program and contract administration, and general environmental protection and regulatory compliance. At Volkert, he leads the green infrastructure service area working directly with clients in matters of program master planning, operations, and compliance. He provides technical construction and post-construction stormwater management expertise, training, and stakeholder coordination and engagement services. In addition to assisting stormwater programs in various municipal and university stormwater programs, his experience includes working with stormwater programs of state departments of transportation in Alabama, Iowa, Mississippi, Montana, Ohio, Oklahoma, Nebraska, and Nevada. This work is informed by his previous 26-year career in road and bridge construction and stormwater management at the Alabama Department of Transportation. His progressive experience includes advancement from road and bridge construction inspector to project engineer to statewide leadership roles in bridge construction, stormwater management, and environmental program administration.
07/2020 - 07/2021	**Green Infrastructure Master Plan Development, City of Auburn, AL.** Green Infrastructure Team Leader. Volkert served as a sub-consultant to Amec Foster Wheeler (Wood) to develop the Green Infrastructure Master Plan for the City of Auburn. The Green infrastructure Master Plan for the City of Auburn was intended to serve as an extension of this commitment by serving as a guide for the protection, preservation, and restoration of the City's local water resources through the integration of sustainable stormwater management practices, ordinance, and policy. Mr. Fagan's primary roles were to assist with internal and external stakeholder engagement and lead the team in an ordinance and review exercise that resulted in the identification of barriers and opportunities for the implementation of green infrastructure and to provide recommendations for making improvements to internal guidance and policy documentation.
01/2022 - 01/2023 (est.)	**MS4 Permitting Assistance for the City of Fultondale**. Project Manager. The Volkert Team worked with the City of Fultondale to prepare storm sewer permits related to ADEM requirements. Phase I and Phase II MS4 involvement and experience included initial negotiation and creation of new permits, creation of

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
	stormwater management program plans, and general permit implementation, management, and maintenance. Volkert also performed dry weather screening of major outfalls, semi-annual inspection of structural controls, public education and public involvement, industrial inspections, wet-weather sampling.
03/2022 - 03/2023 (est.)	**MS4 Permitting Assistance for Alabama State University.** Project Manager. Phase I and Phase II MS4 involvement and experience has ranged from the level of initial negotiation and creation of new permits, to creating stormwater management program plans, to general permit implementation, management, and maintenance. Volkert performed dry weather screening of major outfalls, semi-annual inspection of structural controls, public education and public involvement, industrial inspections, wet-weather sampling.
12/2016 - 01/2018	**Stormwater Program Assistance for State Department of Transportations (DOT)**. Project Manager. State DOTs are required to maintain National Pollution Discharge Elimination System (NPDES) permit compliance. This Permit is issued to regulate the quality of stormwater runoff from within the regulated boundary. The Federal Clean Water Act establishes the permit authority as well as the state agency that enforces the compliance requirements. The purpose of the NPDES permit is to reduce the risk of stormwater pollution in local receiving waters. Phase I and Phase II MS4 involvement and experience has ranged from the level of initial negotiation and creation of new permits, to creating storm water management program plans, to general permit implementation, management, and maintenance. Volkert provides the DOTs with programmatic consultation, technical policy, procedure, report, manual, and specification writing, development of product evaluation and acceptance criteria, and training services. Volkert staff develop a report summarizing all results and recommendations.
09/2015 - 09/2017	**I-59/20**. Principal-in-Charge/Project Manager. This fast-tracked project will replace the bridge substructure & superstructure for Interstate I-59/I-20 in the Birmingham Central Business District of Downtown Birmingham with a segmental bridge. The I-59/20 CBD Bridge project encompasses twelve underpasses, all of which require lighting that blends with the high mast tower design through the corridor. Volkert provided all engineering services required from conceptual design through final bid documents as well as environmental compliance and permitting services. Structural design services included a combination of superstructure replacements, widening of existing structures, and complete design of new structures. Roadway design services included over 5.5 miles of urban roadway design ranging from local roads to freeway design, including interchange modification studies and reports (IMR). A Stormwater management Plan was also developed to minimize runoff in a heavily populated downtown Birmingham area.

Firm employed by: Volkert, Inc.			
Gaston Ibarra, EI *Project Engineer / Bridge Design*		Years of relevant experience with this employer	3.5
		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS | 2018 | Civil Engineering	Year registered	2019
Active registration number / state / expiration date	33983 / LA / 09/30/2023	Discipline	Civil



Contract role(s) / brief description of responsibilities:
Mr. Ibarra will serve as Project Engineer for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
3 years of experience	Mr. Ibarra joined Volkert's Baton Rouge office in July 2018 and graduated from LSU in December 2018. He took his fundamentals exam in October 2018. Since joining Volkert his experience has included roadway and bridge infrastructure design assistance. He has lived in Central and South America for approximately 19 years and fluently communicate verbally and written in both Spanish and English.
06/2020 - 08/2024	**LA 23: Belle Chasse Bridge and Tunnel (HBI) Improvements, Plaquemine Parish (LADOTD).** Mr. Ibarra is serving as project engineer for the Belle Chasse Bridge and Tunnel Improvements. Volkert will be responsible for providing all Engineering Design and Construction Support services including implementation of the Construction Quality Assurance Plan for the Belle Chasse Bridge & Tunnel Public Private Partnership (P3) Project which provides for the replacement of the Belle Chasse Tunnel and Judge Perez Lift Bridge with a new toll bridge. This includes the development of construction plans, bridge replacement plans, de-commissioning of the Tunnel and development of O&M plans. As the OVT, Volkert will provide guidance and support to the LADOTD Project Manager prior to and during reviews, develop review comments, attend project meetings, ensure that the P3 adheres to their contract, and address other assignments as directed
12/2017 - 12/2020	**Causeway Shoulder Bay Design, Jefferson and St. Tammany Parishes, LA (Greater New Orleans Expressway Commission).** Mr. Ibarra served as Project Engineer and provided quantity takeoffs during various stages of design. Volkert was selected to design essential and long-awaited shoulder additions. The bridge shoulders will provide a safe space for disabled vehicles to pull over out of traffic. They will also increase safety for motorists and emergency personnel in the event of a crash. This project was executed using the CMAR alternative delivery method, a first for the State of Louisiana.
05/2018 - 05/2019	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport)**. Mr. Ibarra served as Project Engineer for this is project to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection. Volkert is providing design, environmental permitting, and ROW acquisition for the relocation of Plank Road on a new alignment. This project is an Airport project, funded by FAA, but the road will be transferred to LA DOTD. Volkert is also providing coordination between sub-consultants, the airport, FAA, and LA DOTD.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
01/2022 - 01/2023 (est.)	**Reconstruction of Chalmette Slip Design for the St. Bernard Port Harbor & Terminal District.** Mr. Ibarra is serving as engineering support assisting with the design of the super and substructures. Volkert was selected as Design Engineer and during the early design report development it became clear that the owner had more scope than available dollars. With TIGER Grant funding all funds need to be utilized and it was unfeasible to combine traditional bid alternatives to achieve this. Volkert requested that the project be considered for CMAR procurement and the owner agreed. 15% Design documents and alternatives were provided for the CMAR contractor procurement. Boh Bros. was selected as the CMAR contractor and the pilot piling package for a test pile is under negotiation and design at 60%. Construction should begin in mid-2020. Volkert is responsible for design, partnering, independent cost estimating and working with the contractor for Value Engineering.
01/2020 - 01/2021	**Roundabout at Highway 929 and Highway 930 in Prairieville, LA, (Ascension Parish).** Mr. Ibarra served as Project Engineer for the Move Ascension program. Volkert was assigned a task order as part of the Move Ascension program to develop plans for a Roundabout Highway 929 and Highway 930, Prairieville, LA. The roundabout will replace the existing stop-controlled intersection and consists of a single lane asphalt roundabout. The roundabout was designed through SIDRA, AASHTO, and Louisiana DOTD standards. As project manager. The project required a traffic analysis, development of construction plans, drainage improvements, lighting, topographic survey, ROW mapping, geotechnical services and SUE services

Firm employed by: Volkert, Inc.			
Jeremy Vezina, EI *Project Engineer / Bridge Design*		Years of relevant experience with this employer	3
		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS | 2021 | Civil Engineering	Year registered	2017
Active registration number / state / expiration date	33378 / LA / 03/31/2022	Discipline	Civil

Contract role(s) / brief description of responsibilities:
Mr.Vezina will serve as Project Engineer for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
5 years of experience	Bridge Design Engineer with 5 years of design and load rating experience. Skilled in all aspects of structural analysis and design of various types of bridges. Design experience includes concrete and steel bridges. Rating experience includes concrete, steel, and timber bridges. Familiar with using a wide variety of modeling software to analyze complex structures for load rating, including the historic Merrill Truss Bridge in George County, Mississippi. Led as designer for repairs of damaged Oak Harbor Bridge in Slidell, LA, using CFRP wrapping of prestressed concrete girders. Led as EOR for design replacements of two IH-35 Main Lane overpass crossings at Little Walnut Creek as part of the CapEx North Project in Austin, Texas in 2022. Served as substructure designer for seven overpass and underpass crossings as part of the same CapEx North Project since 2021, as well as the $400 million project to replace the IH-10/US 69 Interchange in Beaumont, Texas.
04/2021 - 05/2022	**IH-10 / US-69 Interchange Replacement, Beaumont, TX.** Currently serving as design engineer, performing substructure designs for $400 million interchange between US 69 to IH-10 in Beaumont, TX, which will reconstruct approximately 8 miles of roadway and bridges to add two non-tolled managed lanes and upgrade facilities. I am responsible for the substructure and foundation design of a 0.6-mile flyover and for conducting drilled shaft lateral analysis for 10 overpasses. The substructures include single and double hammer head columns as well as multi-column piers supporting prestressed concrete and steel girder span combinations. The foundations include single drilled shafts, two-shaft footing, and four-shaft footings.
05/2021 - 02/2022	**IH-35 Capital Express North, Austin, TX.** Mr. Vezina leads the design for substructure components of four overpass and three underpass bridge crossings along IH-35 in Downtown Austin, to be rebuilt as prestressed concrete box beam bridges. The substructure design consisted of utilizing LEAP Bridge RC-Pier, LPile and Wincore to verify the structural integrity of multi-column piers and concrete drilled shafts. I also designed specialty structures unique to this project, including a curved cantilever deck to support turnaround lanes for two underpass bridges. Nearing the project's deadline, I was tasked to be EOR for two of the four additional creek crossings along IH-35 in Austin at Little Walnut Creek, using PGSuper to design the box beam bridge replacements for an existing bridge culvert and completed the bridges with my team over the course of two months.

Firm employed by: Volkert, Inc.	
Experience dates (mm/yy-mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
10/2020 - 02/2021	**Oak Harbor Blvd. over IH-10 Bridge Repair, Slidell, Louisiana**. Bridge Design Engineer. Volkert was contacted by LADOTD and Kort's Construction Services to provide engineering services regarding a repair to damaged prestressed concrete girders under the Oak Harbor Bridge over I-10 in Slidell, LA. I served as designer and detailer for repairs and analyzed the prestressed girders damaged by an over-height vehicle using AASHTOWare BrR to determine extent of necessary structural repairs. I designed CFRP wrapping for flexural and shear support to supplement the loss of prestress due to the impact damage from over-height vehicle. The project recently received praise from LADOTD and others and will serve as a template for future bridge repair projects of this kind.
11/2019 - 04/2020	**Formosa Heavy Haul Bridge, St. James Parish, Louisiana.** Bridge Design Engineer. Volkert provided engineering services to Formosa Chemical for the design of a 1200' long heavy haul bridge in St. James Parish, Louisiana, servicing access to its proposed chemical plant site. I designed the reinforced bent cap, prestressed concrete piles, and bearing pads to ensure the substructure was able to withstand the load from SPMT's expected to carry up to 1541.1 metric tons (3.4 million pounds) for a single chemical plant module.
03/2022 - 04/2022	**Railcar Bridge Load Rating, Madison Parish, Louisiana.** Load Rating QC Checker. Volkert was contacted by the Madison Parish Police Jury to inspect and load rate an 80' long railcar bridge installed on the Cow Bayou crossing in Madison Parish, Louisiana. I worked as a QC checker to verify that the modeling in STAAD matched the dimensions measured in the field, and that the load rating equations used were following the ASR method listed in the Manual for Bridge Evaluation.
04/2020 - 04/2021	**OSARC Complex & Noncomplex Bridge Inspection and Load Rating, Mississippi**. Bridge Load Rater. Volkert served as the consultant for multiple inspections and load ratings projects throughout the state of Mississippi, on behalf of the Office of State Aid and Road Construction (OSARC). I modeled and analyzed channel beam bridges, prestressed girder bridges and steel beam bridges throughout the state of Mississippi, as well as the historic Merrill Truss Bridge in George County. Was responsible for modeling current traffic loads while accounting for present deterioration of structures to compile rating reports to OSARC for the continued service life of these bridges.
04/2019 -05/2019	**OSARC Timber Bridge Inspection and Load Rating, Mississippi**. Bridge Load Rater. Volkert served as the consultant for hundreds of inspections and load ratings for timber bridges throughout the state of Mississippi, on behalf of the Office of State Aid and Road Construction (OSARC). I modeled and analyzed timber beam bridges and substructures using information provided by Volkert's inspection team. I was also responsible for modeling current traffic loads while accounting for present deterioration of structures to compile rating reports to OSARC for the continued service life of these bridges.

Firm employed by: Volkert, Inc.			
Perry Leblanc *CADD Technician*		Years of relevant experience with this employer	5
		Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization	AS |1998 |Drafting & Design Technology	Year registered	N/A
Active registration number / state / expiration date	N/A	Discipline	CADD Technician

Contract role(s) / brief description of responsibilities:
Mr. Leblanc will perform CADD Technician services for the duration of this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
25 years of experience	Mr. LeBlanc joined Volkert's Baton Rouge office in 2016, after a twenty-year career working in design and as a CADD instructor at a local technical college. He is responsible for the CADD design of engineering projects for airports and other engineering projects. He has extensive experience in generating 3D models of projects
12/2017 - 12/2020	**Causeway Segmented Shoulder Bay Improvements on the Lake Pontchartrain Bridge in Louisiana, St. Tammany and Jefferson Parish, LA; (Greater New Orleans Expressway Commission) |** Mr. Leblanc assisted with plan design and layout. Volkert has served as agent to the Greater New Orleans Expressway Commission for the Lake Pontchartrain Causeway Bridge Segmented Shoulder Bay permitting work. Volkert developed permit applications and extensive supporting information for several Joint Permit Applications with USACE/LDNR OCM related to the Bridge Segmented Shoulder Bays, test piles, and mooring piles. Work included Section 404/10 considerations, approval of work in the coastal zone and LDEQ Water Quality Certification. The Segmented Shoulder Bay work also required a U.S. Coast Guard Bridge permit. Volkert worked closely with the Eighth Coast Guard District to satisfy NEPA requirements, environmental agency coordination, and many other requirements of the Bridge Permit Application Guide.
05/2018 - 05/2019	**Plank Road Realignment East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport) |** Mr. Leblanc assisted with plan design and layout. Volkert is providing design, environmental permitting, and ROW acquisition for the relocation of Plank Road on a new alignment. This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It also includes a new lighting system and new signalized intersection.
01/2020 - 01/2021	**Roundabout at Highway 929 and Highway 930 Prairieville, LA, Ascension Parish, LA (DOTD)|** Mr. Leblanc assisted with plan design and layout. As part of the Move Ascension program Volkert was assigned a task order to develop plans for a Roundabout Highway 929 and Highway 930, Prairieville, LA. The roundabout will replace the existing stop-controlled intersection and consists of a single lane asphalt roundabout. The roundabout will be designed through SIDRA, AASHTO, and Louisiana DOTD standards. The project required traffic analysis, development of construction plans, drainage improvements, lighting, topographic survey, ROW mapping, geotechnical services and SUE services.

Firm employed by: Volkert, Inc.			
Brandon Fryday *Survey / Crew Chief*		Years of relevant experience with this employer	<1
		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	N/A	Year registered	N/A
Active registration number / state / expiration date	N/A	Discipline	N/A

Contract role(s) / brief description of responsibilities:
Mr. Fryday will provide surveying services for this project.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
12 years of experience	Mr. Fryday has been with Volkert since 2021 and has over 12 years of surveying / crew chief experience.
01/2022 - Present	**LADOTD LWI Region 3 Watershed Project.** Instrument Man for stream and bridge surveys with C4G control for the construction of HEC-RAS Models. Sub-Contractor to Wood, Inc.
08/2021 - 12/2021	**Fifth Louisiana Levee District, MRL-Item-368R_R-SPROW.** Instrument Man for topographic and right of way surveys for the raising of approximately 5 miles of the Mississippi River Levee.
02/2020 -1 2/2021	**NRCS, Boundary Survey efforts for NRCS within Louisiana, Contract Number: 12FPC319D0016**. Wetland Easements in Richland and St. Landry Parishes. Instrument and Roadman for right of way surveys for Wetlands Restoration Program to included final platting of Federal Right of way.
06/21 - 10/2021	**LADOTOD, H.013720.1-1 Bonner Street Bridge Pedestrian Improvements**. Instrument Man for topographic Surveys for LADOTD sidewalk job in Ruston La.
04/2020 - Present	**Atmos Gas Layout – Kansas Lane Extension – Atmos Energy**. Instrument and Roadman for right of way and topographic surveys for gas line relocations on LADOTD project H.007289 Kansas Lane Connector
02/2020 - Present	**Tensas Basin Levee District, Levee Repair Projects**. Instrument and Roadman for right of way and topographic surveys for nine levee relocations or repairs.

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by **WSP USA Inc.**					
Name	Trevor Johnson, PE (MPR 7)		Years of relevant experience with this employer		18
Title	Structural Engineer Lead		Years of relevant experience with other employer(s)		2
Degree(s) / Years / Specialization			BS / 2002 / Structural Engineering		
Active registration number / state / expiration date			PE LA (0045518) - 9/30/2023; FL (65624) - 2/28/2023		
Year registered	2021; 2008	Discipline	Structural Engineering		
Contract role(s) / brief description of responsibilities			Moveable Bridge Inspection Lead		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
6/16 - 5/21	**FDOT, District Wide Bridge Engineering Design/CEI Support Services, District One, FL**: Project Manager and Engineer of Record responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including multiple movable bridge repairs and mechanical/electrical upgrades, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments, painting, fender repairs, pile jackets, cathodic protection system repairs, ABC bridge span replacement, joint repairs, concrete and steel repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, implemented innovative cost saving approaches, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates.
6/12 - 12/18	**FDOT, District Wide Movable and Complex Bridge Repairs, District Two, FL**: Project Manager and Engineer of Record responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including movable bridge repairs, approach span repairs, inspections, and mechanical/electrical upgrades, multiple truss bridge repairs, segmental post tension soft grout investigations and impregnation repairs, painting, joint repairs, concrete spall and crack repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, cost effective complex steel repairs, minimized impacts on the public, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates.
11/16 - 3/21	**FDOT, Wilson Pigott Draw Bascule Bridge & LaBelle Draw Bascule Bridge over the Caloosahatchee Channel, Lee County, FL**: Project Manager and Engineer of Record responsible for these double-leaf Hopkins

	trunnion bascule bridges. Work included strengthening to bring the structure up to current HL-93 FL120 load rating. Strengthening included innovative solutions of adding post tensioning bars to the floor beams, post installed shear connectors to the cross beams, and carbon fiber wraps to the pre-stressed approach span beams. Rehabilitation included spall repairs, structural steel repairs, coating spot paint, span balancing, span lock repairs, live load shoe adjustments, temporary traffic control, and Wilson Pigott Draw included replacement of the program logic control system (PLC). Also responsible for coordinating with owners, stakeholders, community outreach, and project team, and lead work to high quality standards constructability, and accurate cost estimates.
10/19 - 4/20	**LADOTD, Port of New Orleans, Almonaster Rail Bascule Bridge, New Orleans, LA**: Technical Advisor for the single leaf Strauss truss bascule bridge rehabilitation recommendations and analysis for the repair of deteriorated components of the Almonaster Bridge. Trevor's duties include advising and review of the on-site inspection, quality control review reports of findings & technical memorandums, and load rating calculations.
3/19 – Present	**LADOTD, Seabrook Rail Bascule Bridge, New Orleans, LA**: Technical Advisor for the single leaf Strauss truss bascule bridge and approach span rehabilitation. Trevor's duties included advising and quality control review of the analysis, design, contract plans and specifications of the full superstructure and bearings replacement for each approach spans along with post design services.
4/16 – 11/19	**FDOT, Bridge of Lions Bascule over Matanzas River IWW, St. Augustine, FL**: Project Manager and Structural Engineer responsible for the double rolling bascule bridge rehabilitation, spot painting and overcoating of existing metalizing, correcting barrier railing conflicts, partial replacement of the sidewalk slip resistant plates, and repairing all the pedestrian railing and coordinating the electrical rehabilitation and limit switch improvements.
7/09 – 7/16 & 10/17 – 9/18	**FDOT, Main Street Lift Bridge Structural Enhancements, Jacksonville, FL**: Project Manager and Engineer of Record responsible for structural enhancement to this landmark 365-foot span drive vertical lift truss bridge including sidewalk replacement, addition of barriers for truss protection, structural repairs of the trusses, towers, floor beams, stringers, rocker nest bearing repairs, approach span repairs, and spot painting. lead inspections, determine appropriate scope of work, establish structural repair methods. Work also included electrical rehabilitation and droop cable replacement. Engineering studies include Main Sheave Trunnion and Wire Rope Replacement, Fit for Service analysis (remaining life) of trunnion cracks, cost estimate, construction time estimates and Traffic Resistance Barrier Replacement for making improvements to the existing and replacement options.

Firm employed by **WSP USA Inc.**					
Name	Arun Saha, PE		Years of relevant experience with this employer	3	
Title	Structures Lead		Years of relevant experience with other employer(s)	26	
Degree(s) / Years / Specialization			MS / Civil Engineering / 1995 / University of Florida BE / Civil Engineering / 1989 / University of Florida		
Active registration number / state / expiration date			PE LA (38334) - 03/31/2024; GA (25132) - 12/31/2022; SC (25295) - 06/30/2022; NC (32280) - 12/31/2022; KY (29778) - 06/30/2022; NV (23915) - 06/30/2022		
Year registered	2013; 1999; 2006; 2006; 2013; 2013	Discipline	Structural Engineering		
Contract role(s) / brief description of responsibilities			Structural Lead / Arun has more than 26 years of experience in the structural engineering field and holds a master's degree in civil engineering. His structural design experience includes prestressed and post-tensioned concrete, structural steel bridges, seismic design, box culverts, and tieback retaining walls. Arun's bridge design experience includes construction falsework and erection engineering, highly skewed and curved bridges, long-span plate girders, post-tensioned spliced box girders, and trusses. His responsibilities have included preliminary/final/rehabilitation design, technical design reviews, load rating analyses, and management of plan production. He has also developed LOADRATE software using Visual Basic.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2/13 – 8/15	**LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, LA**: Bridge task manager whose responsibilities included attendance at all design-related meetings (internal team and DOTD), resolution of design issues, coordination of project team, QA/QC design calculations and plans, and management of schedule and budget for the bridge task. The US 90 over LA 318 bridges were constructed as twin bridges for east and westbound traffic. Each structure was 1887 feet long with seventeen 111-foot spans, with LaDOTD precast, prestressed concrete "LG-54" girders. The superstructure consists of a simple span over LA 318, flanked by four two-span continuous units on the east and west sides. Stantec was the prime design consultant and collaborated with the Gilchrist Construction design-build team.
2/13 – 8/15	**LADOTD, LA 511: Jimmie Davis Bridge Rehabilitation, Bossier Parish, LA**: Overall project manager whose responsibilities included maintaining schedule and budget; quality management; coordination with project team, sub-consultants, and client; design, plan productions, and deliverables. This project is in Bossier Parish

	and crosses the Red River. The existing bridge is a 16-span structure, totaling approximately 2,823 feet in length. The bridge is on State Route LA 511 and is composed of three main steel truss simple spans: 354 feet, 402.5 feet, and 354 feet long respectively. The truss spans are flanked on both ends by three-span continuous steel deck girders, totaling 610 feet each and spanning the batture at each end. Simple steel girder spans of 70 feet each complete the structure, with five spans at the west end and two spans at the east end of the bridge. Stantec Consulting researched previous repair and inspection documents along with performing in-depth condition verification inspection using rope access method. Based on the findings of the research and site visit, Stantec generated repair strategies and presented the scope of services to LADOTD. Structural rehabilitation included full deck replacement, structural repair of truss members at 200 locations, design of paint containment system, replacement of nested rocker bearing, design and detailing of jacking scheme of truss spans, pin and hanger replacement.
2/13 – 8/15	**LADOTD, Retainer Contract for Bridge Preservation, Statewide, LA**: Project manager for this $6 million on-call contract, which includes a full array of services, such as bridge design, rehabilitation, bridge hydraulics, roadway design, geotechnical investigation, and surveying. LaDOTD selected Stantec Consulting Ltd. to provide bridge task order services throughout the state. To date, the focus of the contract has been to provide design and construction documents for the new widening and rehabilitation of bridges throughout the various districts in Louisiana.
2/13 – 8/15	**LADOTD, Retainer Contract for Bridge Load Rating, Statewide, LA**: Project manager for this $3-million contract. LADOTD selected Stantec Consulting Ltd. to provide bridge load rating services throughout the state. Work began in 2014 and was completed in two years. This contract included load rating of more than 600 bridges. Bridge types included concrete, prestressed concrete, steel, and truss bridges, with lengths ranging from 100 feet to 29,000 feet.
2/13 – 8/15	**LADOTD, Bridge Scour Project, Statewide, LA**: Project manager of this approximate $1-million contract. The project involves analysis of scour critical bridges throughout the state, including finite element analysis using data gathered from field inspection and providing recommendation reports.
2/13 – 8/15	**LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, LA**: Bridge task manager whose responsibilities included attendance at all design-related meetings (internal team and DOTD), resolution of design issues, coordination of project team, QA/QC design calculations and plans, and management of schedule and budget for the bridge task. The US 90 over LA 318 bridges were constructed as twin bridges for east and westbound traffic. Each structure was 1887 feet long with seventeen 111-foot spans, with LaDOTD precast, prestressed concrete “LG-54” girders. The superstructure consists of a simple span over LA 318, flanked by four two-span continuous units on the east and west sides. Stantec was the prime design consultant and collaborated with the Gilchrist Construction design-build team.

Firm employed by **WSP USA Inc.**					
Name	Lloyd (Mark) Pearson, PE (MPR 4)		Years of relevant experience with this employer	2	
Title	Bridge Inspection and Preservation Manager		Years of relevant experience with other employer(s)	42	
Degree(s) / Years / Specialization			BSCE / 1977 / Civil Engineering MCE / 1979 / Structural Engineering		
Active registration number / state / expiration date			PE LA (39629) – 9/30/2023, NC (10656) – 12/31/2022, MS (13215) – 12/31/2022		
Year registered	2015, 1982, 1997	Discipline	Structural/Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge Load Rating, Preservation and Structural QA/QC		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/19 – on going	**SCDOT Districts 2 and 7 Load Rating Services for 2,604 structures in SC** (2018-Ongoing). As Bridge Inspection and Preservation Manager Mark performed QC reviews for bridge load ratings in Districts 2 and 7 in South Carolina. He provided QC reviews of modifications to bridge load ratings based on NDT and load test results for selected bridges in all seven districts. Role included detailed engineering reviews of rating documents.
05/17 – 03/19	**City of Oxford, Alabama, Leon Smith Parkway Bridge Widenings over Choccolocco Creek, in Calhoun County**. Engineer-of-Record for widening design of a four @ 100-foot span bridge and a five @ 100-foot span bridge utilizing prestressed concrete bulb-tees as sub to the prime design firm, GMC, Inc. Work included checking designs and plans sheets and directly supervising the design. Project was reviewed by ALDOT on behalf of the Town of Oxford and partly state funded. (Construction 2021)
05/16 – 07/18	**City of Raleigh, NC, B-5556 Replacement of Bridge No. 490 on Lake Dam Road (SR 1427), City of Raleigh Public Works, NC**. Project Manager for bridge replacement project with Categorical Exclusion (CE), surveys, hydraulic (FEMA) modeling, utility design/coordination and permitting. Engineer-of Record for design of the 100 foot, two-span precast cored slab bridge replacement. Work included checking the plans and calculations, supervising the design and providing engineering support services. (Construction 2018)
04/16 – 08/16	**CFX (FDOT) Ramp G Bridge in SR 417 Boggy Creek Interchange, Load Rating (Bridge 750804), Central Florida Expressway, Orlando, FL**. Engineer-of-Record for structural load rating of four–span, curved, twin steel box girders spanning 201.75ft-246.92ft-201.75ft-246.92ft.
02/09 – 7/14	**Florida DOT - District 4, I-595 Express Lanes (Design-Build) between I-75 and I-95, Broward County, FL**. - Bridge Design Task Leader and Engineer of Record. Mark was responsible for the final structure designs for 20 bridges in the design–build phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings and construction phase engineering support services. Bridges included curved girders with integral caps.

02/13 – 12/13	**NCDOT Rail Division, Project P-5201, Morrisville Parkway underpass of Norfolk Southern, Structure Design, Morrisville, Wake County, NC**. Structures task manager and engineer-of-record for a new four-span, curved, ballast deck railroad bridge over Morrisville Parkway. Structure featured drilled shaft piers, steel pile abutment foundations, temporary tie-back soldier pile shoring wall and steel plate girders and rolled beams. Roles included preliminary design, checking final calculations and plans, directly supervising the design, writing special provisions and preparing estimates. (Design 2013; Construction 2016).

Firm employed by **WSP USA Inc.**					
Name	Thomas Harris, PE		Years of relevant experience with this employer	4	
Title	Senior Supervising Structural Engineer		Years of relevant experience with other employer(s)	33	
Degree(s) / Years / Specialization			MS / 1993 / Civil Engineering (Water Resources) BS / 2002 / Civil Engineering		
Active registration number / state / expiration date			LA (42081) - 03/31/2022; NC (19299) - 12/31/2021; SC (20305) - 06/30/2022; GA (41057) - 12/31/2022; FL (47335) - 02/28/2023; AL (23025) - 12/31/2021; TN (124719) - 02/28/2023		
Year registered	2017; 1993; 2000; 2016; 1993; 1999; 2021	Discipline	Structural/Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge Design and Load Rating		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/17– 07/21	**NCDOT, Division 14 Group 3, Cherokee, Clay, Haywood, Macon and Swain County, NC:** project manager and lead structural engineer responsible for bridge design for a total of 10 low impact bridge replacements in the above counties. Structures include prestressed concrete cored slab and box beam bridges and aluminum box culverts. Each site varies from new locations to bridge replacements utilizing both staged construction and off-site detours to accommodate construction.
1/19 – 07/21	**NCDOT, Division 13, McDowell, Rutherford and Madison Counties, NC**: Tom is the lead structural engineer responsible for the design of four bridge replacements in the above counties. Designs include prestressed concrete cored slabs and prestressed concrete box beams single and multi-span configuration, one and two bar metal rail barriers as well as vertical barrier rail, steel pile, drilled pier and spread footing foundations. All sites utilize staged construction for the proposed structure.
01/03-12/05	**LADOTD, LA-1 Road and Bridge Improvements, Leeville to Port Fourchon, LA**: Senior engineer for the design of substructure and superstructure for a 72-foot, simple span with reinforced concrete deck and clear roadway varying in width from 40 feet to 86 feet. The deck and girders were designed at the widened end to cantilever over the cap to allow the deck to abut the edge of the main line structure. The reinforced concrete deck with splayed AASHTO type III concrete girders is supported on reinforced concrete caps and 24-inch pre-stressed concrete piles. The span is designed as part of an elevated interchange facilitating access from existing at grade roadway.

09/17– 07/21	**NCDOT, Division 14 Group 3, Cherokee, Clay, Haywood, Macon and Swain County, NC**: project manager and lead structural engineer responsible for bridge design for a total of 10 low impact bridge replacements in the above counties. Structures include prestressed concrete cored slab and box beam bridges and aluminum box culverts. Each site varies from new locations to bridge replacements utilizing both staged construction and off-site detours to accommodate construction.
1/19 – 07/21	**NCDOT, Division 13, McDowell, Rutherford and Madison Counties, NC**: Tom is the lead structural engineer responsible for the design of four bridge replacements in the above counties. Designs include prestressed concrete cored slabs and prestressed concrete box beams single and multi-span configuration, one and two bar metal rail barriers as well as vertical barrier rail, steel pile, drilled pier and spread footing foundations. All sites utilize staged construction for the proposed structure.
01/03-12/05	**LADOTD, LA-1 Road and Bridge Improvements, Leeville to Port Fourchon, LA**: Senior engineer for the design of substructure and superstructure for a 72-foot, simple span with reinforced concrete deck and clear roadway varying in width from 40 feet to 86 feet. The deck and girders were designed at the widened end to cantilever over the cap to allow the deck to abut the edge of the main line structure. The reinforced concrete deck with splayed AASHTO type III concrete girders is supported on reinforced concrete caps and 24-inch pre-stressed concrete piles. The span is designed as part of an elevated interchange facilitating access from existing at grade roadway.

Firm employed by **WSP USA Inc.**					
Name	Christopher Ray, PE		Years of relevant experience with this employer	20	
Title	Supervising Structural Engineer		Years of relevant experience with other employer(s)	27	
Degree(s) / Years / Specialization			MS / 1997 / Civil Engineering BS / 1995 / Civil Engineering		
Active registration number / state / expiration date			PE FL (56105) - 2/28/2023		
Year registered	2000	Discipline	Structural Engineering		
Contract role(s) / brief description of responsibilities			Bridge Design and Historic Bridge Preservation		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
1/10-9/13	**District-wide Complex and Movable Bridges Engineering Services, FDOT District Two Structures Maintenance Office, FL**: Project Manager and Engineer on Record for the Sisters Creek Bascule Bridge rehabilitation project. Details included repairs to reinforce the existing joint, while minimizing impacts to the structure and traveling public. Steel platforms were added to replace the existing platforms. A structural analysis was performed on the approach piers to determine the existing capacity which included the current level of deterioration on the existing structure. The project also involved the design and integration of a partial replacement of the electrical and control system. The replacement control system is a hybrid using a programmable logic controller (PLC) and hardwired relays. The span drives are existing hydraulic cylinders powered from a hydraulic power unit-motor/pump/valves (HPU). Electrical and controls design is coordinated among structural and mechanical disciplines. The design includes the replacement of the four-traffic warning gates and provides better gate access for maintenance.
11/17-9/18	**District-wide Engineering Services, FDOT District Two Structures Maintenance Office, FL**: Senior Structural Engineer for the Main Street Vertical Lift Bridge Trunnion condition assessment and replacement study. The work included: Size new components (e.g. trunnion, sheaves, bearings and wire ropes) to accommodate the existing grating replaced with a solid light weight concrete deck, update the counterweight trunnion replacement/rehabilitation costs from previous reports, define current costs for replacing the counterweight trunnions, sheaves, bearings, and wire ropes, perform nondestructive testing inspection and evaluation of the transition fillets, trunnion journals, and bearings, perform material testing, stress analysis, and provide a fit for life assessment of the trunnions.

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

Firm employed by **WSP USA Inc.**					
Name	Hamid Yaghoubi		Years of relevant experience with this employer	4	
Title	Senior Structural Engineer		Years of relevant experience with other employer(s)	8	
Degree(s) / Years / Specialization			Masters / 2020 / Business Administration MS / 2018 / Structural Engineering BS / 2015 / Civil Engineering		
Active registration number / state / expiration date			NA		
Year registered	NA	Discipline	Structural Engineering		
Contract role(s) / brief description of responsibilities			Bridge Design and Historic Bridge Preservation		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
12/21-Present	**LADOTD, Statewide Rehabilitation of Movable Bridges, LA**: Structural engineer for the inspection and rehabilitation/replacement of five movable bridges in the state of Louisiana. WSP USA is providing inspection/design services for the Louisiana Department of Transportation and Development for multiple movable bridges in the state of Louisiana. Hamid's duties include preparing the scope of woke proposal, fee proposal, and other project management work as needed. Hamid is also responsible for supporting the structural efforts throughout this project, including performing load rating analysis and design work as needed.
07/21-11/21	**LADOTD, P3 Advisory Services On-call, LA**: Structural engineer for this on-call project. WSP USA is providing advisory services for the Louisiana Department of Transportation and Development. Hamid's duties include providing structural engineering support as needed. The last task included performing a risk analysis on the Calcasieu bridge and conducting a ship impact study to provide recommendations for the client.
06/19-10/19	**Texas Central Railway, Texas High-Speed Rail, Houston, TX; Dallas, TX:** Structural engineer for the design of various bridge components. WSP USA is providing design services for Texas Central Railway. The Structural portion of the project includes the design of several bridges including, typical prestressed and steel bridges, as well as complex bridges. Hamid's duties include analysis and design of various components of different bridges per the demand of the project, developing design calculations, preparing bridge final design plans, and conducting quality control. Hamid also worked with the Complex Bridge Group in WSP and he designed 10 ft, 20 ft, 30 ft, and 40 ft span Arch Culvert Bridges and their related components including, wing walls, and retaining walls for phase three of the project.

10/18- 05/20	**NCDOT, I-485 over Westinghouse Rd, Charlotte, NC**: Bridge engineer for the design of a prestressed concrete bridge. WSP USA provided design services for the North Carolina Department of Transportation for the design-build project over Westinghouse Boulevard. The project includes the replacement and widening of the existing bridges. Hamid's duties include modeling, analysis, and design of the prestressed bridge along with preparing bridge final design plans, as well as quality control of other prepared plans.
01/22-Present	**Mississippi DOT, US 98 over Homochitto River, Charlotte, MS**: Bridge engineer for the design of a concrete bridge. WSP USA is providing design services for the Mississippi Department of Transportation. The project includes the replacement of the existing bridge. Hamid's duties include modeling, analysis, and design of different bridge components. Hamid is also responsible for providing project management services as needed.
06/20-10/20	**NCDOT, I-540 (R2828), Raleigh, NC**; Bridge engineer for the design of a prestressed concrete bridge. WSP USA is providing design services for the North Carolina Department of Transportation. Hamid's duties include modeling, analysis, and design of the bridge superstructure and substructure along with preparing bridge final design plans.

Firm employed by **WSP USA Inc.**					
Name	Amaka Amalu-Anderson, PE (MPR 5)		Years of relevant experience with this employer	2	
Title	Senior Director Mechanical Engineer		Years of relevant experience with other employer(s)	14	
Degree(s) / Years / Specialization			BS / 2006 / Mechanical Engineering		
Active registration number / state / expiration date			41985 / LA / 3/31/2024; / 75527 / FL / 02/28/2023; 29524		
Year registered	NA	Discipline	Mechanical Engineering		
Contract role(s) / brief description of responsibilities			Mechanical Lead / Amaka specializes in the inspection and design of machinery for heavy movable bascule with areas of expertise including gear train and hydraulically operating machinery design, along with HVAC and water/sewer system design for movable bridge tender houses. She has been involved in over 150 movable bridge projects and inspections.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
3/2008 – 8/2013	**LADOTD, Judge Seeber Vertical Lift Bridge, New Orleans, LA**: Mechanical Engineer responsible for shop drawing review and approval, and post design services. Machinery rehabilitation included lifting ropes, counterweight guides, and span lock replacement. The aggressive design schedule required the design to be accomplished in three months.
5/2019 – 5/2019	**LADOTD, I-110 Rolling Bascule Bridge Inspection New Orleans, LA**: Lead Mechanical Engineer responsible for leading mechanical systems inspection and report production.
9/2020 – 9/2020	**Port of New Orleans, Almonaster and Seabrook Bascule Bridges, New Orleans, LA**: Lead Mechanical Engineer responsible for leading mechanical systems inspection.
12/2020 – 5/ 2021	**FDOT, CSX New River Bascule Rail Bridge Emergency Repair, Ft Lauderdale, FL**: Senior Mechanical Engineer responsible for the overseeing and review of calculations, design, cost estimate, post design services, and field construction work for replacement of two pinion couplings exhibiting full depth cracks at the keyway (coupling fully split). Saved the Owner $2 million in fees to CSX by preventing full closure of the bascule bridge to rail and marine traffic by utilizing a lock-out mechanism to operate the span with single pinion. This allowed one pinion coupling to be replaced at a time under an accelerated schedule.

3/2018 – 11/2020	**MSDOT, SR-609 Movable Bascule Bridge Rehabilitation, MS**: Lead Mechanical Engineer (EOR) responsible for the inspection, design, technical special provisions, and post design/construction review services for rehabilitation of the mechanical systems including HVAC/Water/Sewer systems. Design included replacing the existing primary reducer and open bull gearing with a primary and secondary planetary. Providing temporary hydraulic cylinder machinery to keep span operational during drive machinery replacement. Replacing and upsizing all drive bearings, shafts, and pinions. Machining of the trunnion shaft and replacement of the trunnion bushings due to flooding damage. Replacing the under-deck span lock system with an above deck, barrier housed span lock system for easier maintenance. Scope included design of new split HVAC system in tender house and control rooms. Design of new bathroom/kitchen sewer and water line runs between the tender utilities and the approach sewer and water connection main lines.
5/2017 – 11/2020	**NCDOT, US 17 Swing Bridge over the Perquimans River Design-Build, Perquimans County, NC**: Lead Mechanical Engineer (EOR) responsible for providing preliminary and final machinery engineering design, technical specifications, and post design machinery services to replace the existing swing bridge over the Perquimans River with a new off-line swing bridge. The machinery design included center pivot bronze disc bearings, balance wheels and track, center live load rollers, span lock machinery, and end lift rollers for the span supporting machinery. The span operating machinery consisted of circular rack and two pinions, with the pinion directly mounted to the reducer output shaft due to limited elevation spacing for machinery design. The span locking machinery consisted of two lockbars actuated by linear worm gear actuators. Amaka also designed the new split HVAC/Water/Sewer system in tender house.
6/2012 – 11/2020	**Broward County, Andrews Avenue Bascule Bridge Rehabilitation over the New River, Broward County, FL**: Mechanical Engineer (EOR) responsible for inspection, design, calculations, plan preparation, and technical special provisions. The scope of work included machinery rehabilitation of a single-leaf bascule span. Machinery rehabilitation included a new span drive hydraulic cylinder replacement, HPU rehabilitation with VFDs, trunnion hub bolts replacement, new hydraulic span lock assembly replacement work, and live load shoe repairs. Amaka also designed the new split HVAC/Water/Sewer system in tender house rehab.
9/2016 – 11/2020	**Miami Dade County, SR 9 / NW 27th Avenue Bascule Bridge Rehabilitation over Miami River Bridges, Miami FL**: Lead Mechanical Engineer (EOR) responsible for inspection, preparing mechanical design, calculations, plans and technical specifications and conducting field inspection of existing conditions required for the rehabilitation of the twin double-leaf bascule bridges. Scope of work included reliability and maintainability improvements with the rehabilitation and replacement of components of the span drive hydraulic system (new cylinders and refurbished hydraulic power units and motors), live load shoes and span lock assemblies.

Firm employed by **WSP USA Inc.**					
Name	Robert Algazi, PE		Years of relevant experience with this employer	4	
Title	Senior Mechanical Engineer		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			BS / 2013 / Aerospace Engineering		
Active registration number / state / expiration date			44505 / LA / 9/30/2022; 84279 / FL / 02/28/2023; 101821 / NY / 07/31/22; 24GE05566700 / NJ / 4/30/2022; 6201070152 / MI / 02/26/2023; 37761 / SC / 06/30/2022; 20102852 / WA / 11/25/2022		
Year registered	2020, 2017, 2019, 2019, 2020, 2020, 2020	Discipline	Mechanical Engineering		
Contract role(s) / brief description of responsibilities			Mechanical Lead		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/2020-Present	**CSX New River Bridge Emergency Repair, Fort Lauderdale, FL**: Senior Mechanical Engineer (EOR) responsible for the design of the emergency coupling replacement for the CX New River Bascule Bridge in Fort Lauderdale Florida. Project included investigations into the cause of the failure and designing a replacement to correct the existing failure on an accelerated schedule. Couplings were successfully replaced without requiring extended bridge outages which would impact railroad traffic. Inspections include observation of machinery and operation as well as applicable measurements of machinery components. Findings were compiled into reports that included recommendations.
11/2018-Present	**Massachusetts Movable Bridge Mechanical/Electrical Inspections, MA**: Senior Mechanical Engineer responsible for leading the in-depth inspection of several movable bridges for the Massachusetts Department of Transportation. A total of 6 movable bridges have been inspected as a part of this Contract including 3 Trunnion Bascule Bridges, 1 Scherzer Type Bascule Bridge, 1 Swing Bridge, and 1 Vertical Lift Bridge, Inspections include observation of machinery and operation as well as applicable measurements of machinery components. Findings were compiled into reports that included recommendations.

2/2019-10/2020	**Bobcaygeon Swing Bridge Replacement, ON**: Senior Mechanical Engineer responsible for performing a code review of the new swing bridge replacement. Project includes review of all plans, calculations, and specifications for compliance with CSA bridge code as well as providing technical support during the construction phase. The bridge is a part of the Trent-Severn Waterway Channel Lock system. The new swing bridge span drive hydraulic machinery include two new hydraulic cylinders. The hydraulic power unit will be integrated with the nearby channel lock hydraulic system. The bridge machinery also includes a new center pivot bearing, new live load wheels, new balance wheels and track, new end lift wheels, and new hydraulic center lock assemblies.
6/2019-Present	**Center Street Swing Bridge, Cleveland, OH**: Senior Mechanical Engineer (EOR) leading the mechanical rehabilitation of the bob-tail swing bridge. The goal of the project is to repair and replace deficient structural, mechanical, and electrical components to extend the life of the bridge. The bridge is operated by an electro-mechanical drive train and a main rack and pinion. The bridge machinery also includes end lift wedges driven by a linear actuator which support the bridge corners, centers the span, and locks the span from rotation. Efforts include rehabilitating select operating machinery, span support ring bearings, and performing balance adjustments.
5/2017-8/2018	**NCDOT, US 17 Swing Bridge over the Perquimans River Design-Build, Perquimans County, NC**: Mechanical Engineer responsible for preliminary and final machinery engineering analysis, technical specifications, design and post design services to replace the existing swing bridge over the Perquimans River with a new off-line swing bridge. The machinery design included center pivot bronze disc bearings, balance wheels and track, center live load rollers and end lift rollers for the span supporting machinery. The span operating machinery consisted of circular rack and two pinions, with the pinion directly mounted to the reducer output shaft due to limited elevation spacing for machinery design. The span locking machinery consisted of two lock bars actuated by linear worm gear actuators.
9/2018-Present	**NJ Route 30 Over Beach Thorofare, Atlantic City, NJ**: Senior Mechanical Engineer (EOR) responsible for the on-going mechanical rehabilitation of the single leaf trunnion bascule bridge. The span is driven by two 60 hp a/c electric motors which connect mechanical gear train and ends with a rack-pinion gearing at the bascule girder. The bridge also has a diesel engine auxiliary drive assembly which ties into the main gear train as well as a back-up generator. Efforts include replacing of the existing auxiliary drive system, rehabilitation of the selected span drive machinery components, and replacement of the primary speed reducer. Additionally, new span lock assemblies driven by a linear gear actuator, new industrial hydraulic shock buffers, and new live load shoes will be provided. Machinery components to be cleaned, lubricated, and painted in accordance with OSHA requirements.

Firm employed by **WSP USA Inc.**					
Name	Maame Assasie-Gyimah, EIT		Years of relevant experience with this employer		3
Title	Assistant Mechanical Engineer		Years of relevant experience with other employer(s)		4
Degree(s) / Years / Specialization			MS / 2019/ Mechanical Engineering; BS / 2018 / Mechanical Engineering		
Active registration number / state / expiration date			NA		
Year registered	NA	Discipline	Mechanical Engineering		
Contract role(s) / brief description of responsibilities			Mechanical Inspections		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
02/2021-Present	**Belle Chasse and Harvey Tunnel Inspections, LA**: Mechanical Engineer assisting in the inspection of the mechanical systems of the Harvey and Belle Chasse Tunnels in New Orleans, LA. The tunnel inspection involves an in-depth inspection of the ventilation system, the Pumping and Drainage System, the Fire Protection System, the Plumbing System, etc. that make up the tunnel. Inspection findings were compiled into in-depth reports.
09/2020-Present	**LaSalle Causeway, ON**: Mechanical Engineer assisting in the counterweight replacement study. The existing bridge is a Strauss Fixed Trunnion Bascule Bridge over the St. Lawrence River in Kingston, Ontario. Study involved evaluation several options for the replacement of the existing deteriorated counterweight.
10/2020 – Present	**CSX New River Bridge Emergency Repair, FL**: Assistant Mechanical Engineer responsible for the design of the emergency coupling replacement for the CSX New River Bascule Bridge in Fort Lauderdale Florida. Project included investigations into the cause of the failure and designing a replacement to correct the existing failure on an accelerated schedule.
09/2018-Present	**Route 30 Bascule Bridge, State Road (SR) 30 over Beach Thorofare, Atlantic County, NJ**: Mechanical Engineer assisting the on-going mechanical design rehabilitation of the single leaf bascule bridge. Efforts include replacing of the existing auxiliary drive system, rehabilitation of the selected span drive machinery components, span lock replacement, and air buffer replacement.
10/2019-10/2020	**Bobcaygeon Swing Bridge Replacement, ON**: Assistant Mechanical engineer responsible for code review of the new swing bridge replacement. Project includes review of all plans, calculations, and specifications for compliance with CSA bridge code. The bridge is apart of the Trent-Severn Waterway Channel Lock system. The new swing bridge span drive hydraulic system will be integrated with the nearby channel lock hydraulic system.

Firm employed by **WSP USA Inc.**					
Name	Kevin Walsh (MPR 6)		Years of relevant experience with this employer	8	
Title	Electrical Engineer Lead		Years of relevant experience with other employer(s)	8	
Degree(s) / Years / Specialization			BS / 2007 / Electrical Engineering		
Active registration number / state / expiration date			0044049 / LA / 3/31/2022; 78396 / FL / 2/28/2023;48485 / MD / 1/14/2022; 50267 / MA / 6/30/2022; 24GE05175000 / NJ / 4/30/22; 52962 / WA / 7/14/22		
Year registered	2019; 2014; 2016; 2013; 2014; 2015	Discipline	Electrical Engineering		
Contract role(s) / brief description of responsibilities			Electrical Engineer Lead		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2/2021 - Present	**Belle Chase and Harvey Tunnel Inspections, Plaquemines and Jefferson Parishes, LA**: Lead Electrical Engineer (EOR) for the inspection of the instrumentation controls and automation (ICA) systems at the Belle Chase and the Harvey Tunnels. Kevin performed visual and operational testing of the ICA systems including CCTV, remote monitoring and alarm systems, and CO monitoring.
3/2019 - 06/2019	**Hood Canal Pontoon Bridge No.'s 104/5.1 and 5.2, WA**: Lead Electrical Engineer (EOR) for the in-depth electrical inspection of this very complex floating concrete pontoon movable bridge which consists of with six separately operated hydraulic lift spans and two main draw spans. Kevin was responsible for performing visual inspection and operational testing of the electrical and control systems, performed power measurements, and insulation resistance testing. Kevin prepared reports outlining observations, deficiencies, recommendations, and cost estimates. Kevin assisted with management of scope, schedule, and budget.
2/2019 - Present	**Route 30 Single Leaf Bascule Bridge, NJ Route 30 over Beach Thorofare, Atlantic County, NJ**: Lead Electrical Engineer (EOR) for this major structural, mechanical, and electrical rehabilitation project which includes work on the bascule span and approaches. Electrical work includes replacement of the traffic signals, resistance barrier gates, traffic warning gates and supporting platforms, programmable logic controller (PLC) system, electrical service and associated equipment, motor and machinery brakes, span locks, auxiliary direct drive diesel engine, CCTV system, PA systems, heat trace system, and a new standby generator.
8/2018 - 2/2021	**Wilson Pigott Double Leaf Bascule Bridge, FL State Road 31 over Caloosahatchee River, Lee County, FL**: Lead Electrical Engineer (EOR) for this on-call services contract which includes structural, electrical, and mechanical rehabilitation work. Electrical work involves replacement of the PLC control system, all control console top components, and navigation lighting. Kevin also performed post design construction services.

7/2018 - 4/2019	**Tacony-Palmyra Double Leaf Bascule Bridge over the Delaware River, Tacony, PA and Palmyra, NJ**: Lead Electrical Engineer for this electrical rehabilitation project. Scope includes replacement of the bridge control consoles and additional control system components, and rehabilitation of the electrical wiring system. Preliminary 30% design was developed.
1/2016 - 1/2019	**Bridge of Lions Single Leaf Rolling Lift Bascule Bridge, FL State Road A1A over Matanzas River, St. Johns County, St. Augustine, FL**: Lead Electrical Engineer (EOR) for this rehabilitation project which includes the replacement of the span position indication limit switches from existing rotary cam type limit switches (mechanically coupled to the machinery) to new magnetic proximity type limit switches for nearly raised, fully raised, nearly seated, and fully seated indications. Barrier gate fully raised, and fully lowered lever operated limit switches were also installed. Kevin performed post design review of various construction shop drawings and RFI's
4/2014 - Present	**Maryland Movable Bridge Inspections (On-Call Services), MD**: Lead Electrical Engineer (EOR) and assistant electrical engineer for the in-depth electrical inspections of over ten (10) movable bridges throughout the state including bascule and swing bridges. performed the visual inspection and operational testing of the electrical and control systems and performed power measurements/ recording and insulation resistance testing. Kevin also prepared reports outlining observations, deficiencies, recommendations, and cost estimates, and managed the budget and schedule.
10/2019 - Present	**New Jersey Movable Bridge Inspections (On-Call Services), NJ**: Lead Electrical Engineer (EOR) for the inspection of several movable bridges throughout the state including bascule and vertical lift bridges. Kevin performed visual inspection and operational testing of the electrical and control systems, traffic safety systems, and control systems. He prepared reports outlining observations, deficiencies, recommendations, and cost estimates, and managed the budget and schedule.
6/2014 - 10/2016	**Burlington Canal Vertical Lift Bridge, Hamilton, ON, CA**: Electrical Engineer for this major electrical and mechanical rehabilitation which includes replacement of the bridge control system, instrumentation, partial power distribution system, motor control centers, main drive motors, VFD's, motor brakes, and gates. Kevin's responsibilities included assisting in several design QA/QC reviews for the electrical and control system rehabilitation design, performing post design review of various construction shop drawings, and performing shop acceptance testing of the main drive motors, motor drives, and overall control system in the field.

Firm employed by **WSP USA Inc.**					
Name	Antonio Gonzalez		Years of relevant experience with this employer	4	
Title	Supervising Engineer		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			BS / 2004 / Electrical Engineering		
Active registration number / state / expiration date			38719 / LA / 09/30/2022; 57770 / WA / 01/18/2022; 088943 / PA / 9/30/2023; 24GE05046600 / NJ / 4/30/2022; 094428 / NY / 12/31/22; 86300 / FL / 02/28/2023		
Year registered	2019; 2019; 2018; 2013; 2014; 2019	Discipline	Electrical and Computer Engineering		
Contract role(s) / brief description of responsibilities			Electrical Design and Inspection		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
4/2021-7/2021	**Harvey Tunnel, Harvey, LA**: Electrical Engineer for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Harvey Tunnel. Tasked to lead the electrical inspections team, inspecting the electrical systems associated with tunnel currently in use for vehicular traffic. Visual inspection and operational testing of all electrical systems throughout the tunnel. Report preparation of all electrical findings.
2/2021-5/2021	**Belle Chasse Tunnel, Plaquemines Parish, LA**: Electrical Engineer for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Belle Chasse Tunnel. Lead the electrical inspections team, inspected the electrical systems associated with tunnel currently in use for vehicular traffic. Visually inspected and operationally tested all electrical systems throughout the tunnel. Prepared report of all electrical findings.
10/2020-Present	**NJDOT Facilities Inventory Database, Trenton, NJ**: Electrical Engineer tasked with developing a centralized database to track the primary critical electrical system components throughout NJDOT's Pump Stations, Flood Gate, Movable Bridges, and the Route 29 Tunnel facilities. The goal of the database is to provide a simplified reference of installed electrical equipment as well as critical facility based information for use by NJDOT's maintenance personnel.
9/2020	**Kent Narrows Bascule Bridge, Grasonville, MD**: Assistant Electrical Engineer for the 2020 MDOT Routine Electrical Bridge Inspection of the Kent Narrows Bridge. Visual inspection of electrical components including; drive and emergency motors, drives, PLC, ATS/MTS, generator, warning/barrier gates, traffic signals, brakes, span locks, MCC, limit switches, navigation lighting, control console, panelboards, resistors and the CCTV and fire alarm systems. Performed power recordings on motors during operation, and insulation resistance testing of motor windings and feeders.

Firm employed by **WSP USA Inc.**					
Name	Graciela Patino, EIT		Years of relevant experience with this employer	22	
Title	Electrical Engineer Director		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			BS / 1996 / Electrical Engineering		
Active registration number / state / expiration date			EIT - 1100006540 / FL / NA		
Year registered	2001	Discipline	Electrical Engineering		
Contract role(s) / brief description of responsibilities			Technical Advisor; Electrical Engineer		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2/2019 – Present	**Route 30 Single Leaf Bascule Bridge, NJ Route 30 over Beach Thorofare, Atlantic County, NJ**: Technical Advisor for this major structural, mechanical, and electrical rehabilitation project which includes work on the bascule span and approaches. Electrical work includes replacement of the traffic signals, resistance barrier gates, traffic warning gates and supporting platforms, programmable logic controller (PLC) system, electrical service and associated equipment, motor and machinery brakes, span locks, auxiliary direct drive diesel engine, CCTV system, PA systems, heat trace system, and a new standby generator. In addition to her Technical Advisor role, Graciela served as electrical engineer team member responsible for the quality control of the electrical rehabilitation design.
3/2019 – 06/2019	**Center Street Swing Bridge Rehabilitation, OH**: Technical Advisor for the replacement of MCCs, panelboards, warning gates, traffic signal, fire alarm system, navigation lights, sidewalk lights, and surge protection device. Design included construction plans, special provisions, and construction cost estimate. In addition to her Technical Advisor role, Graciela served as electrical engineer team member responsible for the quality control of the electrical rehabilitation design.
4/2021 – 7/2021	**Harvey Tunnel, Harvey, LA**: Project Manager for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Harvey Tunnel. The scope included visual inspection and operational testing of all electrical systems throughout the tunnel, report preparation of all electrical findings.
2/2021 – 5/2021	**Belle Chasse Tunnel, Plaquemines Parish, LA**: Project Manager for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Belle Chasse Tunnel. The scope included visual inspection and operationally testing of all electrical systems throughout the tunnel, report preparation of all electrical findings.

8/2018 – 2/2021	**Wilson Pigott Double Leaf Bascule Bridge, FL State Road 31 over Caloosahatchee River, Lee County, FL**: Technical Advisor for this on-call services contract which includes structural, electrical, and mechanical rehabilitation work. Electrical work involves replacement of the PLC control system, all control console top components, and navigation lighting. In addition to her Technical Advisor role, Graciela served as electrical engineer team member responsible for the quality control of the electrical rehabilitation design.
7/2018 – 4/2019	**Tacony-Palmyra Double Leaf Bascule Bridge, NJ State Road 73 over the Delaware River, Burlington County, NJ**: Technical Advisor responsible for the quality control of the electrical rehabilitation design. Scope included replacement of the bridge control consoles and additional control system components, and rehabilitation of the electrical wiring system. Preliminary 30% design was developed.
9/2014 – 2/2017	**New Pass Single Leaf Bascule Bridge, FL State Road 789 over Sarasota Bay, Sarasota, FL**: Technical Advisor for the electrical rehabilitation project of this single-leaf Hopkins Trunnion bascule bridge. Electrical rehabilitation scope included the design and integration of a partial replacement of the electrical and control system for replacement of traffic gates, two generators, control console top, PLC, submarine cable terminal box, navigation lighting, and partial power distribution replacement. C reviews for the electrical and control system rehabilitation design.
1/2016 – 1/2019	**Bridge of Lions Single Leaf Rolling Lift Bascule Bridge, FL State Road A1A over Matanzas River, St. Johns County, St. Augustine, FL**: Electrical Engineer team member for this rehabilitation project which includes the replacement of the span position indication limit switches from existing rotary cam type limit switches (mechanically coupled to the machinery) to new magnetic proximity type limit switches for nearly raised, fully raised, nearly seated, and fully seated indications. Barrier gate fully raised, and fully lowered lever operated limit switches were also installed.
11/2013 – 5/2017 6/2004	**Berkley Bridge Rehabilitation Peer Review and Value Engineering, Norfolk, VA**: Electrical Engineer for the peer review and value engineering of electrical and controls system for this four-leaf rolling bascule bridge. The value engineering review and presenting electrical recommendations.
11/2013 – 5/2017	**James River Bridge Rehabilitation Peer Review and Value Engineering Study, Newport News, VA**: Electrical Engineer for the peer review and value engineering study of electrical and controls system for this vertical lift bridge. Responsible for performing the value engineering review and presenting electrical recommendations.

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

STV Incorporated					
Name	Lawrence Nash			Years of relevant experience with this employer	5
Title	Senior Mechanical Engineer			Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization			Bachelor of Science / 1990 / Mechanical Engineering		
Active registration number / state / expiration date			Professional Engineer (PE.0042136) / Louisiana / 03/24		
Year registered	2017	Discipline	Mechanical		
Contract role(s) / brief description of responsibilities			Mechanical Engineer. Providing mechanical design services, with particular expertise in the design and inspection of heavy movable structures. Conducting condition inspections of bridge machinery components and preparing design drawings, specifications, and construction cost estimates.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
12/17 - Present	**NYSDOT Region 10 Movable Bridge Rehabilitation - Mechanical Engineer** This project included the mechanical rehabilitation design of two under-deck, articulating counterweight bascule bridges along the Loop Parkway and the Meadowbrook Parkway in Nassau County, NY. The scope of mechanical repairs during this assignment for the New York State Department of Transportation (NYSDOT) included replacing motors and brakes, rehabilitating shaft couplings, refurbishing reducers, replacing span lock assemblies, repairing open gear frames and bearings, re-painting the machinery, and re-balancing the bascule leaves. Mr. Nash currently, is leading the review of mechanical submissions from the contractor and is supporting multi-disciplinary coordination.
12/17 - Present	**MassDOT Belden G. Bly Bridge Replacement - Lead Mechanical Engineer** Worked to design a complete bridge machinery system for a new single leaf, heel trunnion type bascule bridge carrying Route 107 between the cities of Lynn and Saugus, MA, for the Massachusetts Department of Transportation (MassDOT). Mr. Nash worked to develop detailed contract documents, coordinating with structural and electrical design staff, and assisting in the development of maintenance access. He performed analysis of machinery components, prepared mechanical drawings, special provisions, and construction cost estimates.
11/16 - 9/17	**FDOT District Main Street Bridge Rehabilitation CEI - Senior Mechanical Inspector**

	Coordinated with structural and electrical engineers to provide construction engineering and inspection (CEI) services for the rehabilitation of the 4-lane, 1,680-foot-long Main Street Bridge in downtown Jacksonville, FL. The bridge was originally constructed in 1941 and features a 365-foot-long vertical lift span over the St. Johns River. Major mechanical items included the replacement of motors, brakes, open pinion gearing, wire rope sheave assembles, operating drum assemblies, and uphaul/downhaul ropes with tensioners. Structural repairs included widening the machinery platforms, installing new uphaul/downhaul platforms and ladders, and performing modifications to the tower legs. The electrical rehabilitation included the replacement of the entire electrical control system. Mr. Nash performed mechanical field inspection and offsite shop inspection for the resident engineer on the Florida Department of Transportation (FDOT) project. This work included construction inspection during operating rope system replacement and span drive machinery rehabilitation. Shop inspection included testing for the machinery brakes hydraulic power unit.
7/15 - 9/17	**NYCDOT Madison Avenue Bridge Rehabilitation - Senior Mechanical Engineer** Provided mechanical engineering design services for the rehabilitation of the Madison Avenue Bridge, which connects Madison Avenue in Manhattan with East 138th Street in the Bronx, NY. The 4-lane, 1,890-foot-long bridge was originally opened in 1910 and has a 300-foot-long swing span over the Harlem River. Mr. Nash's responsibilities for the New York City Department of Transportation (NYCDOT) project included the design of the new bridge turning machinery, end lifts, and center device machinery. He performed analysis of machinery components and prepared drawings, specifications, and construction cost estimates.
7/15 - 8/17	**MassDOT Statewide Engineering and Design Review Services - Senior Mechanical Engineer** Provided mechanical engineering and technical support services to assist MassDOT with the preparation of special studies and reports, and in meeting design and advertising schedules for various highway and bridge projects. Mr. Nash's tasks included performing detailed reviews of shop drawings for conformance to contract documents for the award-winning $41.3 million replacement of the Lagoon Pond Bridge on the Island of Martha's Vineyard, MA. The 2-lane, 350-foot-long structure features a 60-foot-long bascule span. He also provided technical support for the mechanical systems, which included an in-depth design analysis of traffic barrier and warning gates.
1/14 – 6/15	**TxDOT Arroyo Colorado Bridge Rehabilitation - Mechanical Engineer** Provided mechanical engineering design for the rehabilitation of the 382-foot-long vertical lift bridge over Arroyo Colorado in Rio Hondo, TX. The scope of work encompassed wire rope replacement, span guide replacement, main pinion and rack replacement, and refurbishment of the counterweight rope drums. Mr. Nash prepared calculations according to AASHTO load and resistance factor design for bridge power requirements, sizing motors, couplings, open gears, and all other mechanical equipment for the $12 million Texas Department of Transportation (TxDOT) project.

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

STV Incorporated					
Name	Jorge Leon			Years of relevant experience with this employer	9
Title	Senior Electrical Engineer			Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization			Bachelor of Science / 1995 / Electrical Engineering		
Active registration number / state / expiration date			Professional Engineer (PE.44073) / Louisiana / 03/2024		
Year registered	2020	Discipline	Electrical		
Contract role(s) / brief description of responsibilities			Electrical Engineer. Preparing designs and layouts for movable bridge electrical and control systems. Experience preparing technical specifications and evaluations, cost estimates, and shop drawings and permitting reviews.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/19 - Present	**MBTA North Station Draw 1 Bridge Replacement. New Triple Lift Bridge – Lead Electrical Engineer** Overseeing the complete electrical, power distribution, control system designs, CCTV system design and overall site electrical design for the replacement of the North Station Draw 1 Bridge replacement for the MBTA. The proposed replacement bridge is a triple lift span bridge that will carry six railroad lanes of traffic. Electrical design is being prepared following the latest AASHTO, National Fire Protection Association, and local codes and standards.
2/19 - 12/19	**FDOT District 6 Fifth Street Bridge – Project Manager/Senior Electrical Engineer** Supervised the initial inspection, cost estimate, and electrical design for the barrier gates replacement for the Fifth Street Bridge in Miami, FL for the Florida Department of Transportation (FDOT). Mr. Leon was responsible for replacing the four existing barrier gates with new B&B barrier gates. The new gates required to be fully integrated with the existing bridge control system. Additionally, new structurally supports was required to accommodate new gates on the existing bridge. New end supports were also designed on the existing bridge approach medians barrier to lock barrier gates in place when in the closed position to restrict vehicular traffic.
3/15 – 10/20	**NYSDOT Long Island Loop Parkway and Meadowbrook Parkway Bascule Bridges - Lead Electrical Engineer** Developing electrical plans for rehabilitating the 80-year-old Loop Parkway and Meadowbrook Parkway bascule bridges on Long Island, NY, for the New York State Department of Transportation (NYSDOT). Electrical

	repairs include replacing motors, brakes, variable speed drives, control system, navigational lights, submarine cables, ATS and lighting. Mr. Leon is coordinating and providing technical guidance between the mechanical, electrical, and structural design teams.
6/09 - 5/11	**FDOT District 2 Bridge of Lions Rehabilitation – Project Engineer/Senior Electrical Engineer** Oversaw design to rehabilitate the Bridge of Lions during construction and provide preliminary design services for FDOT. He oversaw inspection, testing, and rehabilitation of the existing bascule piers as well as the structural, mechanical, and electrical design of new bascule leaves. The design used an innovative method to support and strengthen the existing bascule piers for ship impact and to meet current scour design criteria. Mr. Leon was also responsible for the design of the movable span and piers of the temporary vertical lift bridge used during construction.
6/04 - 6/05	**FDOT Local Government Bascule Bridges – Project Engineer/Lead Design Engineer** Oversaw the $2 million submarine cable replacement of the three bascule bridges in Miami-Dade County, FL, over the Miami River for FDOT. The project included the bridges on NW 22nd Avenue, NW 17th Avenue, and Miami Avenue.
1/18-Present	**FDOT District 6 Local Government Bridge Inspection – Project Manager** Mr. Leon led the 2004-2008 and is leading the 2018-2022 mechanical and electrical in-depth and routine inspections and serving as the project manager and team leader. Mr. Leon is performing the hands-on inspection of the components comprising the bridge's electrical and mechanical systems, including the gear train system, span motors, drives, MCC, bridge logic control system, control desk, relays, span locks and brakes, etc. He is also responsible for evaluating the bridge's mechanical system including gears measurement, machinery alignment, brakes and motors mechanical performance evaluation, etc.
6/15-11/20	**FDOT District 6 Asset Management Bridge Inspection – Project Manager** Mr. Leon led the 2015-2020 electrical routine inspections and served as the project manager and electrical team leader. Mr. Leon is overseeing the hands-on inspection of the components comprising the bridge's bridge electrical systems, including the span motors, drives, MCC, bridge logic control system, control desk, relays, resistor banks, brakes, wedges and rail interlocking system, etc. Mr. Leon wrote the electrical conditioning report and cost estimated to enhance bridge functionality.

16. Staff Experience:

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STV Incorporated					
Name	Nicholas Altebrando			Years of relevant experience with this employer	17
Title	Bridge National Practice Leader			Years of relevant experience with other employer(s)	28
Degree(s) / Years / Specialization			Master of Science / 1984 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer (#PE.0031404) / Louisiana / 03/24		
Year registered	2005	Discipline	Structural		
Contract role(s) / brief description of responsibilities			Structural Engineer. Providing planning, design, and inspection of a variety of bridges, including long-span bridges over water, complex interchanges, and other complex structures.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2/20 - Present	**City of New Haven Grand Avenue Bridge Rehabilitation Construction Inspection - Technical Director** Supervising construction engineering and inspection (CEI) services for the rehabilitation of the Grand Avenue Bridge over the Quinnipiac River, a navigable waterway regulated by the U.S. Coast Guard. This swing bridge carries a heavily traveled roadway connecting New Haven, CT, and East Haven, CT. Mr. Altebrando provides integrated structural, mechanical, and electrical review of the contractors' deliverables, including installation and erection phases. He participates in reviews of design plans, shop drawings, and erection drawings, as well as project meetings and field visits. Mr. Altebrando also performs oversight of measurements and procedures to verify consistency with contract documents.
12/19 - Present	**MassDOT North Station Draw 1 Bascule Bridge - Structures Lead** Overseeing the type study, preliminary and final design, and construction phase services for the replacement of the existing North Station Draw spans in Boston. The estimated $300 million project consists of the replacement and capacity expansion of rail service into the Massachusetts Bay Transportation Authority's North Station across the Charles River. The existing service is two two-track rolling lift bascule spans and the project team is studying bridge options to provide a 50% increase in rail capacity into the station. The new crossings will include either three 2-track movable structures or two 3-track movable structures. The scope of work includes the type study, coordination with the USACE and USCG because the bridges are upstream of a set of lock and dams, preliminary design, and final design and construction engineering support. Mr. Altebrando is overseeing a

	team of 20 to 30 staff to develop all movable and fixed structures for the project. The project includes a movable bridge type study of a rolling lift, trunnion bascule, and lift spans and preliminary and final design of the selected option, including all substructure, superstructure, and mechanical and electrical components and architectural aspects, including machinery and electrical enclosures as well as the onsite control house and remote access control center.
3/13 - Present	**CDOT Van Buren Street Bridge Rehabilitation - Technical Advisor** Providing overall technical guidance for the Phase I Bridge Condition Report (BCR), Project Design Report, and type, size, and location plans to rehabilitate this Chicago-style, double-leaf, trunnion type bascule bridge. The firm is furnishing preliminary through final design services to the Chicago Department of Transportation (CDOT) during this $10 million inspection and rehabilitation effort. The bridge, built in 1956, has an overall length of 267 feet, a roadway width of 44 feet, and a deck width of 69 feet. Mr. Altebrando reviewed all structural, mechanical, electrical, and architectural inspection documentation that formed the basis for the BCR. At present, the firm is preparing a Project Design Report and addressing potential environmental permitting requirements.
1/08 - Present	**MassDOT Fore River Bridge Replacement - Technical Advisor** Serving in a technical capacity in the development of the movable span and overseeing the design of approaches for the $245 million replacement of this crossing of Route 3A over the Fore River between Quincy and Weymouth, MA. The preliminary phase included development of permit documents, all route alignment and structural studies, and plan development to the 30% phase. The project also includes all aspects of public involvement. Mr. Altebrando was responsible for directing the process to determine the type of movable bridge, the geometrics of the span, its configuration, and overall operational features. During construction, he was involved in technical review of the JV design modifications and submittals, fabrication and erection issues, and startup and systems testing of the movable span. Mr. Altebrando is supporting integration of systems and providing support of MassDOT staff in training and future maintenance.
9/05 - Present	**NYCDOT Broadway Bridge Replacement over the Harlem River - Principal-in-Charge** Overseeing the second and final phases of the $150 million reconstruction of this 1960 dual-use lift bridge over the Harlem River at the northern end of Manhattan for the New York City Department of Transportation (NYCDOT). The lift bridge is unique because the lower portion of the structure provides six lanes of vehicular traffic and is an extension of Broadway into the Bronx. The upper deck of this structure supports the three-track elevated Broadway line. Engineering services include a site-specific seismic analysis that will entail a nonlinear history analysis of the movable span and supporting towers, as well as development of final contract documents for the reconstruction. Mr. Altebrando is responsible for all aspects of the interdisciplinary movable bridge coordination for structural repairs to the superstructure and substructure.

16. Staff Experience:

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<table>
<tr><td colspan="5">Firm employed by Burgess & Niple, Inc.</td></tr>
<tr><td>Name</td><td colspan="2">Edward M. Cinadr, PE</td><td colspan="2">Years of relevant experience with this employer</td><td>24</td></tr>
<tr><td>Title</td><td colspan="2">Principal & Director of Facility Inspection</td><td colspan="2">Years of relevant experience with other employer(s)</td><td>3</td></tr>
<tr><td colspan="3">Degree(s) / Years / Specialization
BSCE/MSCE – Ohio University (1995/1997)
ATSSA TC Technician, TC Supervisor and TC Flagging – Louisiana Associated General Contractors, 2018
SPRAT Level II Rope Access, 2022
Safety Inspection of In-Service Bridges - FHWA/NHI, 2008, 2011, 2016, 2021
Inspection of Fracture Critical Bridge Members - FHWA/NHI, 2011
LRFR Bridge Load Rating Training, 2006
ODOT LRFD Loads & General Overview, 2007
LRFD Training for Bridge Substructures & Earth Retaining Structures, 2005
NDT Techniques (DP, MP, UT) – Edison Welding Institute, 2020
First Aid & CPR – Red Cross, 2022</td><td colspan="3">  </td></tr>
<tr><td colspan="3">Active registration number / state / expiration date</td><td colspan="3">PE #35390 / Louisiana / 9/30/2022</td></tr>
<tr><td>Year registered</td><td>2010</td><td>Discipline</td><td colspan="3">Civil</td></tr>
<tr><td colspan="3">Contract role(s) / brief description of responsibilities</td><td colspan="3">B&N Project Oversight & Field Evaluation QA</td></tr>
<tr><td>Experience dates (mm/yy–mm/yy)</td><td colspan="5">Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</td></tr>
<tr><td>12/09 – 10/11</td><td colspan="5">LADOTD State Proj. No. 700-99-0494: Lead bridge inspector, performed field inspection of major trusses and gusset plate inspection, gathered data for bridge load rating. Utilized industrial rope access for inspection. Teamed with SDR on the following bridges: LA-90/Morgan City, I-20/Vicksburg, I-10/Baton Rouge, LA-70/Donaldsonville, US-190/Krotz Springs, I-10/Calcasieu.</td></tr>
</table>

04/16 – 01/18	LADOTD Contract No. 4400004920 (TO 1): Lead bridge inspector, performed field inspection & load ratings of major trusses including gusset plate inspection & rating on three major trusses, **LA-47/IWGO, US-90/New Orleans River bound Expressway, and LA-2/Millers Bluff**. Utilized industrial rope access for inspection.
12/19 – 6/21	LADOTD Contract No. 4400004920 (TO 5): Lead bridge inspector, performed field inspection of off-system bridges and QA of load rating calculations, 29 total bridges.
12/21 - ongoing	LADOTD Contract No. 4400017264: Contract Manager and Team Leader for Inspection for Rehab of **IWGO/LA47/Green Bridge**.
06/18 - ongoing	Oregon DOT Agreement B34825: Lead Inspector and Contract Manager for Fracture Critical, Fatigue Prone, In-Depth, and Routine Inspections of major bridges including **Astoria-Megler trusses, Coos Bay/McCullough Memorial trusses, and West Fremont Complex (seven FC steel tub girders and pier caps)**. Utilized industrial rope access for inspection.
04/21 - ongoing	Oklahoma DOT Contract ID 2299A: Contract Manager and Team Leader for Fracture Critical and Routine Inspections of 91 Off-System truss and FC bridges. Project includes load ratings and updates to include EV/SHV loadings and Critical Finding repair/rehab detail development. Utilizing industrial rope access for inspection.
04/21 - ongoing	Oklahoma DOT Contract ID 2300: Contract Manager and Team Leader for Fracture Critical and Routine Inspections of 50 On-System truss and FC bridges. Utilizing industrial rope access for inspection.

Firm employed by Burgess & Niple, Inc.			
Name	Brendan J. Prendeville, PE	Years of relevant experience with this employer	18
Title	Senior Project Manager, Bridge Inspection Engineer	Years of relevant experience with other employer(s)	18

Degree(s) / Years / Specialization
BSCE – Ohio State University (2004)
ATSSA TC Technician, TC Supervisor and TC Flagging – Louisiana Associated General Contractors, 2018
Safety Inspection of In-Service Bridges - FHWA/NHI, 2005, 2011, 2016, 2021
Inspection of Fracture Critical Bridge Members - FHWA/NHI, 2011
Permit Required and SCBA Confined Space Entry – SafeX - 2005, 2006
Bridge Climbing & Industrial Rope Access – B&N, 2003
SPRAT Level II Rope Access 2008, 2012, 2015, 2018, 2022
NDT Techniques (DP, MP, UT) – Edison Welding Institute, 2020
First Aid & CPR – Red Cross, 2020

Active registration number / state / expiration date			PE #74728 / Ohio / 12/31/2023
Year registered	2010	Discipline	Civil
Contract role(s) / brief description of responsibilities			B&N Field Evaluation – Bridge Inspector

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
12/09 – 10/11	LADOTD State Proj. No. 700-99-0494: Bridge inspection engineer, performed field inspection of major trusses and gusset plate inspection, gathered data for bridge load rating. Utilized industrial rope access for inspection. Teamed with SDR on the following bridges: **LA-90/Morgan City, I-20/Vicksburg, I-10/Baton Rouge, LA-70/Donaldsonville, US-190/Krotz Springs, I-10/Calcasieu.**
04/16 – 01/18	LADOTD Contract No. 4400004920 (TO 1): Bridge inspection engineer, performed field inspection & load ratings of major trusses including gusset plate inspection & rating on three major trusses, **LA-47/IWGO, US-**

	90/New Orleans River bound Expressway, and LA-2/Millers Bluff. Utilized industrial rope access for inspection.
12/19 - ongoing	LADOTD Contract No. 4400004920 (TO 5): Project Manager, Bridge inspection engineer, performed field inspection of off-system bridges and load rating calculations, 29 total bridges.
03/20 - ongoing	Ohio DOT Municipal Bridge Inspections & Load Ratings: Project Manager and Lead Bridge Inspection Engineer for 80 bridges, includes Routine and Fracture Critical Inspections and BrR load ratings of select structures including trusses.
08/20 – ongoing	Ohio DOT DEL-23 Bridge & Structure Evaluations: Project Manager and Lead Bridge Inspection Engineer for over 200 structures, including bridges, culverts, and drainage structures. Bridge evaluation work includes in-depth assessment of decks including coring, Chloride Ion sampling, and other testing.
06/18 - ongoing	Oregon DOT Agreement B34825: Project Manager & Bridge Inspection Engineer for Fracture Critical, Fatigue Prone, In-Depth, and Routine Inspections of major bridges including **Astoria-Megler trusses, Coos Bay McCullough Memorial trusses, and West Fremont Complex (seven FC steel tub girders and pier caps)**. Utilized industrial rope access for inspection.
04/21 - ongoing	Oklahoma DOT Contract ID 2299A: Team Leader for Fracture Critical and Routine Inspections of 91 Off-System truss and FC bridges. Project includes load ratings and updates to include EV/SHV loadings and Critical Finding repair/rehab detail development. Utilized industrial rope access for inspection.
04/21 - ongoing	Oklahoma DOT Contract ID 2300: Team Leader for Fracture Critical and Routine Inspections of 50 On-System truss and FC bridges. Utilized industrial rope access for inspection.

Firm employed by Burgess & Niple, Inc.			
Name	Michael J. Kronander, PE	Years of relevant experience with this employer	7
Title	Project Manager, Bridge Inspection Engineer	Years of relevant experience with other employer(s)	4

Degree(s) / Years / Specialization
BSCE – Ohio State University (2011)
ATSSA TC Technician, TC Supervisor and TC Flagging – Louisiana Associated General Contractors, 2020
Safety Inspection of In-Service Bridges - FHWA/NHI, 2015, 2020
Inspection of Fracture Critical Bridge Members - FHWA/NHI, 2016
Permit Required and SCBA Confined Space Entry – 2015
Bridge Climbing & Industrial Rope Access – B&N, 2015
SPRAT Level III Rope Access – 2021
NDT Techniques (DP, MP, UT) – Edison Welding Institute, 2020
FAA UAV Pilot Certification - 2020
PTI Level I Certification – 2018
ASBI Grout Certification - 2018
First Aid & CPR – Red Cross, 2022

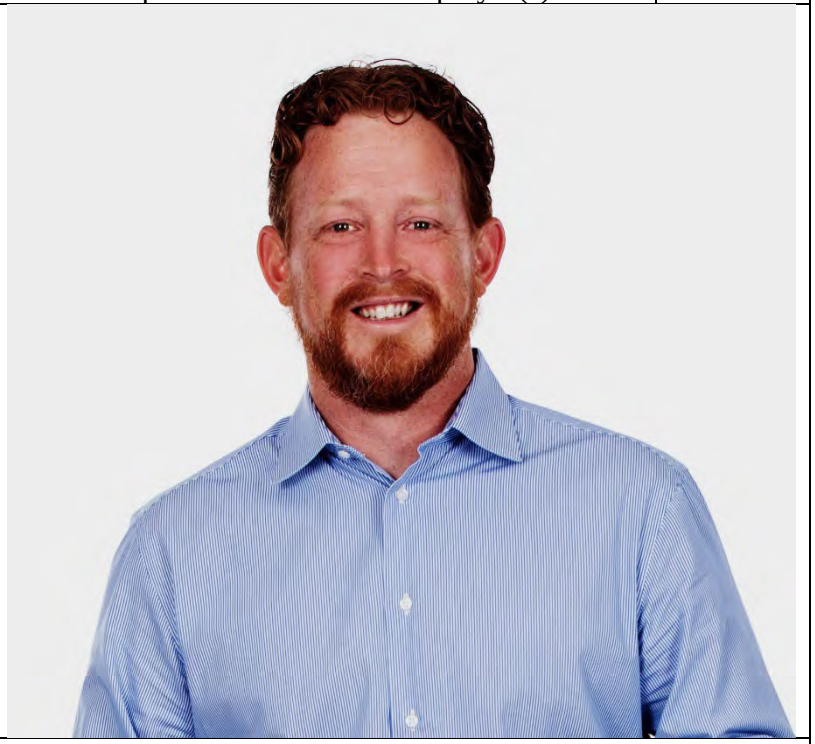
Active registration number / state / expiration date			PE #42172 / Louisiana / 03/31/2024
Year registered	2017	Discipline	Civil
Contract role(s) / brief description of responsibilities			B&N Field Evaluation – Bridge Inspector/Team Leader

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/16 – 01/18	LADOTD Contract No. 4400004920 (TO 1): Bridge inspection engineer, performed field inspection & load ratings of major trusses including gusset plate inspection & rating on three major trusses, **LA-47/IWGO, US-90/New Orleans River bound Expressway, and LA-2/Millers Bluff**. Utilized industrial rope access for inspection.
12/21 - ongoing	LADOTD Contract No. 4400017264: Bridge Inspection Engineer for Inspection for Rehab of **IWGO/LA47/Green Bridge**.
02/19 - ongoing	Ohio DOT Voinovich Bridges In-Depth, Fracture Critical, & Routine Inspection. Serves as the Project Manager and Team Leader for inspections of two signature long-span steel delta-frame bridges. Utilized industrial rope access for inspection.

06/18 - ongoing	Oregon DOT Agreement B34825: Bridge Inspection Engineer for Fracture Critical, Fatigue Prone, In-Depth, and Routine Inspections of major bridges including **Astoria-Megler trusses, Coos Bay/McCullough Memorial trusses, and West Fremont Complex (seven FC steel tub girders and pier caps)**. Utilized industrial rope access for inspection.
04/21 - ongoing	Oklahoma DOT Contract ID 2299A: Team Leader for Fracture Critical and Routine Inspections of 91 Off-System truss and FC bridges. Project includes load ratings and updates to include EV/SHV loadings and Critical Finding repair/rehab detail development. Utilized industrial rope access for inspection.
04/21 - ongoing	Oklahoma DOT Contract ID 2300: Team Leader for Fracture Critical and Routine Inspections of 50 On-System truss and FC bridges. Utilized industrial rope access for inspection.
10/19 - ongoing	Mississippi OSARC Bridge Inspections & Load Ratings: Team Leader for in-depth and routine inspections of Off-System bridges including timber, steel, and concrete structures. Load ratings performed in BrR, MIDAS and Excel.

Firm employed by Burgess & Niple, Inc.			
Name	James Appler, PE	Years of relevant experience with this employer	2
Title	Project Manager, Bridge Inspection Engineer	Years of relevant experience with other employer(s)	12

Degree(s) / Years / Specialization
BSCE – University of South Florida (2008)
Safety Inspection of In-Service Bridges - FHWA/NHI, 2015, 2021
Inspection of Fracture Critical Bridge Members - FHWA/NHI, 2019
Inspection and Maintenance of Ancillary Structures – FHWA/NHI 2019
Bridge Climbing & Industrial Rope Access – B&N, 2020
SPRAT Level I Rope Access – 2022
FAA UAV Pilot Certification – 2021
Tunnel Safety Inspection – FHWA/NHI 2017/2022
First Aid & CPR – Red Cross, 2022



Active registration number / state / expiration date			PE #76076 / Florida / 02/28/2023
Year registered	2013	Discipline	Civil
Contract role(s) / brief description of responsibilities			B&N Field Evaluation – Bridge Inspector/Team Leader

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
12/21 - ongoing	LADOTD Contract No. 4400017264: Bridge Inspection Engineer for Inspection for Rehab of **IWGO/LA47/Green Bridge**.
08/20 - ongoing	Oklahoma DOT Contract ID 2299A: Team Leader for Fracture Critical and Routine Inspections of 91 Off-System truss and FC bridges. Project includes load ratings and updates to include EV/SHV loadings and Critical Finding repair/rehab detail development. Utilized industrial rope access for inspection.

08/20 - ongoing	Oklahoma DOT Contract ID 2300: Team Leader for Fracture Critical and Routine Inspections of 50 On-System truss and FC bridges. Utilized industrial rope access for inspection.
09/2020	Iowa DOT – Fracture Critical Inspection of Sioux City and Dubuque bridges. Bridge Inspection Engineer for inspection of two tied arch bridges over the Mississippi River. Utilized industrial rope access for inspection.
09/2021	West Virginia DOT – In-depth Inspection of the New River Bridge: Bridge Inspection Engineer for in-depth and routine inspections of 3,000 ft long truss arch bridge. Utilized industrial rope access for inspection.
08/20 - ongoing	Mississippi OSARC Bridge Inspections & Load Ratings: Team Leader for in-depth and routine inspections of Off-System bridges including timber, steel, and concrete structures. Load ratings performed in BrR, MIDAS and Excel.
08/2012-12/2014	Florida DOT – In-depth Inspection of the Sunshine Skyway in Tampa, FL. Project Manager for inspection of 22,000 ft long cable-stay bridge. Performed QAQC duties for inspection, industrial rope access utilized for inspection.

(Add rows as needed)

16. Staff Experience:

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Firm employed by Bridge Diagnostics, Inc. (BDI)				
Name	Shane Boone, PHD		Years of relevant experience with this employer	7
Title	Vice President – Nondestructive Evaluation		Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization			PHD / 2008 / Civil Engineering / Utah State University MS / 2005 / Structural Engineering / University of Tennessee BS / 2002 / Civil Engineering / University of Tennessee	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Nondestructive Evaluation, QA/QC and Subject Matter Expert	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/16-Present	Dr. Boone has spent more than 20 years in the government, academic, and private sectors of specialized infrastructure inspection and monitoring. He specializes in the research, development and application of nondestructive testing & evaluation technologies and monitoring for civil infrastructure. Previously, Dr. Boone managed NDE programs at the Federal Highway Administration (FHWA) and Oak Ridge National Laboratory. He serves as the chair of the American Society for Nondestructive Testing's Structural Materials Technology Conference, chair of the ASNT Infrastructure Committee, and sits on TRB's Field Testing and NDE of Transportation Structures committee. He is a certified ASNT Level II inspector.
01/17 - Present	**Retainer Contract for Testing of Unknown Foundations Statewide (DOTD Contract No. 4400009224)** – Dr. Boone is the Subject Matter Expert (SME) for the NDE to determine the unknown foundations of up to 1,900 bridges in Louisiana. The project utilizes multiple methods of NDE including ultraseismic testing, parallel seismic survey, sonic echo/impulse response, and guided wave. To date, thousands of piles have been tested to determine the embedded depth for subsequent NBIS 113 scour evaluation and reporting. BDI has assisted DOTD in FHWA reporting of these items by uploading all reports into AssetWise.

01/19 - Present	**IDIQ Contract for Nondestructive Evaluation of Structures Statewide (DOTD Contract No. 4400015262) –** Dr. Boone is the SME for statewide NDE of structures for DOTD under this contract. Scope items include testing of bridge decks, concrete substructures, steel elements such as welds and pin and hanger assemblies, unknown foundations, tunnels, culverts, and other highway transportation infrastructure. Dr. Boone assists DOTD with identifying proper technologies for application and best methods for analysis and reporting of findings into DOTD's AssetWise.
11/19 – Present	**NDE and Remote Inspection of I-10 over the Bonnet Carre Spillway, LA –** BDI is performing NDE of the bridge deck utilizing ground penetrating radar (GPR), deck acoustic response (SounDAR), infrared thermography (IR), and high-resolution imaging (HRI) to determine the deck integrity and NBIS/NBE reporting quantities. In addition, BDI is performing the NBIS inspection of the substructure utilizing remote inspection techniques with drones and other technology to report to FHWA. Dr. Boone is the SME for this inspection.
08/19 – 07/20	**NDE of City Park Lake Bridge LA –** Dr. Boone was the principal investigator for NDE of the City Park Lake Bridge in Baton Rouge, LA. NDE technologies included ground penetrating radar (GPR), deck acoustic response (DAR), infrared thermography (IR), high-resolution video (HRV). Remote inspection was performed on the substructure utilizing visual inspection and IR.
08/19 – 12/19	**NDE of Vicksburg Bridge, LA –** Dr. Boone was the principal investigator for NDE of the Vicksburg Bridge carrying I-20 over the Mississippi River near Vicksburg, MS. NDE technologies included ground penetrating radar (GPR), deck acoustic response (DAR), infrared thermography (IR), high-resolution video (HRV).
11/19 – 02/20	**Ultrasonic Testing of the US1 Simmesport Bridge, LA –** BDI performed inspection of 4 pins of the US1 bridge that carries US1 over the Atchafalaya River near Simmesport, LA. BDI utilized ASNT certified inspectors to perform ultrasonic testing (UT) and magnetic particle testing (MT) to determine their integrity. Dr. Boone was the SME for this inspection**.**
08/19 – 12/21	**US Army Corps Evaluation of Advanced Weld Inspection Methods –** As USACE's ongoing want to improve inspection techniques, BDI was awarded a Task Order under its IDIQ to identify and determine best practices for steel weld inspection utilizing advanced ultrasonic testing (UT) methods such as phased array ultrasonic testing (PAUT) and total focus method / full matrix capture (TFM/FMC). These advanced methods improve the reliability and repeatability of weld inspection and flaw sizing for fitness for service level analysis. Dr. Boone was the subject matter expert for this project and helped develop the testing means and methods that were performed on eight lab samples and four comprehensive in-field bridge weld inspections. Based on these findings, USACE expanded the scope to scan further areas of concern on one of the bridges.

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by	Bridge Diagnostics, Inc. (BDI)			
Name	Brett Commander, PE		Years of relevant experience with this employer	32
Title	Vice President / Principal Engineer		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			MS / 1989 / Structural Engineering / University of Colorado BS / 1986 / Civil Engineering / University of Colorado	
Active registration number / state / expiration date			Professional Engineer: 35864 / LA / 3/31/2023	
Year registered	2010	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			QA/QC, Principal Engineer	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/89-Present	Mr. Commander has more than 30 years of experience with testing, monitoring, and evaluating measured structural responses on over 1,000 structures. He has performed/oversaw complete structural analyses and load ratings on over 500 highway and railway bridges using a variety of design codes such as AASHTO and AREMA, and many state-specific codes including Louisiana specifications. Mr. Commander also has designed/oversaw capacity testing projects of concrete and steel structures using various NDE techniques as well as implemented hundreds of structural monitoring systems.
11/12 – Present	**US-90 Bayou Ramos Bridge Load Testing and Monitoring, LA** – Due to unexpected cracking in PS concrete AASHTO beams, BDI performed load tests and load ratings to determine cause and effect of cracks in continuous multi-span PS/C girders. Load ratings were completed according to DOTD specifications. After the completion of the initial evaluation, monitoring systems were installed on the structure to monitor the state of two sections of structure. Structural Health Monitoring is still ongoing. As technical advisor/principal engineer, Mr. Commander oversaw live-load and thermal load monitoring that was performed during and after repairs to evaluate the performance of retrofit.

11/04 – 12/04 11/11 – Present	**Bonnet Carre Spillway Load Testing, Rating, and Monitoring, LA** –BDI used its Integrated Approach to determine if a 500-ton load could cross the bridge safely. BDI then installed an event-based monitoring system that helps DOTD capture weigh-in-motion data, strains induced by heavy loads, and photos of heavy load. Health Monitoring is still ongoing. Over multiple contracts, Mr. Commander was the principal-in-charge on this project in its many phases which included responsibilities such as testing program oversight, structural analysis, load rating of structure for atypical load configurations, on-site data interpretation, report creation and submittal, and providing recommendations for future crossings.
07/21 – Present	**NDE of the Whiskey Bay and Piot Channel Bridge Decks, LA** – NDE of 3.5M sf of bridge deck on the structure carrying I-10 over the Atchafalaya Basin between Baton Rouge and Lafayette, LA. Testing included IR/HRI, CWSF GPR and SounDAR from BDI's mobile NDE testing van. IR/HRI bridge deck data was also collected via drone. BDI also performed substructure inspection to satisfy LADOTD's NBI requirements of the structure with IR/HRI via drone. The data will be used to quantify and locate areas for repair and preservation, and to report NBE and NBI data to FHWA. Mr. Commander is providing QA/QC and PE Review.
07/19 – 01/20	**St. Claude Lift Bridge Balance and Operation Testing, LA –** Mr. Commander was project principal engineer responsible for counterweight/span balance and friction calculations as well as structural performance evaluation on a double heal trunnion Strauss Bascule Bridge. Strain gauge testing and various instrumentation tasks were performed during investigation of a bearing failure on the span to counterweight link including strain gage testing on the link frame as well as on counterweight balance procedures.
06/14 – Present	**Phinney Avenue Bridge Load Testing, Rating and NDE, WA** – As part of BDI's SDOT On-Call, BDI was contracted by Seattle DOT to perform diagnostic load tests and structural reinforcement investigation on the Phinney Ave bridge in Seattle, WA. Instrumentation, load tests, and reinforcement investigation were performed with the overall goal of these tests was to better understand the structures' load distribution, reinforcement details, and in turn provide refined load ratings. Mr. Commander acted as the principal engineer and oversaw testing plan development, field-verified model calibration, load ratings performed according to SDOT/WSDOT specifications, and reporting.
08/18 – 12/20	**Live Load Testing and Field-Verified Load Rating of 16 Bridges, VA –** As part of BDI's VDOT On-Call, BDI provided load testing and field-verified load rating of 16 structures in the Fredericksburg and Richmond districts of VDOT. BDI was responsible for the design of load testing requirements, development of instrumentation plans, execution of field work and load testing, data analysis, finite element (FE) model creation and calibration, and eventual load rating per VDOT and AASHTO requirements. Mr. Commander acted as principal engineer and subject matter expert for this project and responsibilities included overseeing testing program development.

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

<table>
<tr><td colspan="6">Firm employed by Bridge Diagnostics, Inc. (BDI)</td></tr>
<tr><td>Name</td><td colspan="3">Jesse Sipple, PHD, PE</td><td colspan="2">Years of relevant experience with this employer</td><td>8</td></tr>
<tr><td>Title</td><td colspan="3">Testing, Monitoring, and Engineering Program Manager</td><td colspan="2">Years of relevant experience with other employer(s)</td><td>9</td></tr>
<tr><td colspan="4">Degree(s) / Years / Specialization</td><td colspan="3">PHD, Civil Engineering, Tufts University, 2013
MS, Civil Engineering, University of New Hampshire, 2008
BS, Civil Engineering, University of New Hampshire, 2007</td></tr>
<tr><td colspan="4">Active registration number / state / expiration date</td><td colspan="3">#41028 / Louisiana / 03/31/2023</td></tr>
<tr><td>Year registered</td><td>2016</td><td>Discipline</td><td colspan="3">Civil Engineer</td></tr>
<tr><td colspan="4">Contract role(s) / brief description of responsibilities</td><td colspan="3">Testing, Monitoring, and Engineering Manager</td></tr>
<tr><td>Experience dates (mm/yy–mm/yy)</td><td colspan="6">Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).</td></tr>
<tr><td>01/14-Present</td><td colspan="6">Dr. Sipple oversees the testing, monitoring, engineering, and on-going monitoring groups of BDI’s Services. The projects performed by these groups range from large SHM systems on signature structures, complex testing and analysis of constructed systems, and maintenance and support of in-service systems. In addition to managerial oversight, Dr. Sipple also oversees the quality control aspects of these projects.</td></tr>
<tr><td>11/21-Present</td><td colspan="6">Off-System Bridge Ratings and Evaluation, LA (Contract 4400010099) – BDI is preforming live-load testing of ten bridges throughout the state of Louisiana, including seven culvert and three reinforced concrete bridges of varying types to provide realistic load rating results for those structures. The process includes developing instrumentation plans, instrumenting, load testing, and load rating each bridge. Load rating reports will be provided for each of the load tested structures. Dr. Sipple is an analysis engineer and reviewer for this project.</td></tr>
<tr><td>07/18–09/18</td><td colspan="6">Collier County Bridge Load Testing, FL – BDI performed diagnostic load tests on the FDOT Bridge 034190 which spans over a small drainage ditch in a residential area in Immokalee, Florida. The overall goal of these tests was to better understand the structure’s transverse distribution, provide refined load ratings, and reevaluate the current posting levels. Load tests were performed, and the collected structural responses were used to generate a field-verified finite-element model (FEM). This field-verified FEM was then used to compute refined load ratings. Dr. Sipple acted as project manager for this project.</td></tr>
</table>

06/18–03/19	**Phinney Avenue Bridge Load Rating and NDE, WA –** BDI was contracted by SDOT to perform diagnostic load tests and structural reinforcement investigation on the Phinney Ave bridge that spans over North 57th St in Seattle, WA. Instrumentation, load tests, and reinforcement investigation were performed with the overall goal of these tests was to better understand the structures' load distribution, reinforcement details, and in turn provide refined load ratings. Dr. Sipple acted as the project manager for this project.
07/19–12/19	**St. Claude Lift Bridge Balance and Operation Testing, LA** – Dr. Sipple was the quality control manager for counterweight/span balance and friction calculations as well as structural performance evaluation on a double heal trunnion Strauss Bascule Bridge. Strain gauge testing and various instrumentation tasks were performed during investigation of a bearing failure on the span to counterweight link.
08/18–12/20	**Live Load Testing and Field-Verified Load Rating of 16 Bridges, VA** – BDI provided load testing and field-verified load rating of 16 structures in the Fredericksburg and Richmond districts of VDOT. BDI was responsible for the design of load testing requirements, development of instrumentation plans, execution of field work and load testing, data analysis, finite element (FE) model creation and calibration, and eventual load rating per VDOT and AASHTO requirements. Dr. Sipple acted as quality control manager for this project.
04/18-10/19	**Sunshine Truss Emergency Monitoring, LA -** In 2018, the Sunshine Truss Bridge was struck by a crane barge, significantly damaging a bottom chord member. As part of the Modjeski and Masters response team, BDI installed a laser displacement sensor within 48 hours of the event to monitor the behavior of the damage member. Once a monitoring plan was developed and approved by the team, BDI installed strain gages along nearby chord members that were used to evaluate the state of the structure before, during and after the replacement of the damaged bottom chord member. Dr. Sipple acted as project manager responsible for monitoring plan development and project oversight.
02/20-12/20	**LA507 Over I-20 ABC Span Move Monitoring, LA** - During the replacement of this bridge, accelerated bridge construction was utilized where spans were cast nearby and moved into place during short outages. Dr. Sipple was a field/analysis engineer responsible for monitoring plan implementation, instrumentation, monitoring during span moves, on-site data interpretation, and data processing and reporting.
01/22-Present	**Varina-Enon Bridge Structural Health Monitoring, VA –** Virginia Department of Transportation contracted BDI to provide a comprehensive structural health monitoring (SHM) system on the Varina-Enon bridge. The project includes the design, installation, and operation of the SHM system. Dr. Sipple is a senior engineer contributing to system design, architecture, and installation support in his current capacity on this project.

(Add rows as needed)

16. Staff Experience:

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Firm employed by Bridge Diagnostics, Inc. (BDI)					
Name	Brice Carpenter, PE		Years of relevant experience with this employer	13	
Title	Senior Engineer / Engineering Department Lead		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			MS / 2009 / Civil Engineering / New Mexico State University BS / 2007 / Structural Engineering / New Mexico State University		
Active registration number / state / expiration date			Professional Engineer: 39341 / LA / 3/31/2023		
Year registered	2014	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Senior Engineer / Engineering Department Lead		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/09-Present	During his tenure and more than 250 bridges tested and load rated using advanced techniques, Mr. Carpenter has become BDI's Engineering Lead responsible for testing plan oversight, data processing and investigation, structural analysis, load rating, and reporting. Mr. Carpenter has been involved with the testing, monitoring, and evaluation of hundreds of structures of various types (steel, reinforced concrete, prestressed concrete, in simple to complex geometry and configurations) using a variety of design codes such as AASHTO, AREMA, and many state-specific codes including Louisiana specifications. Mr. Carpenter also has years of experience in capacity testing of concrete and steel structures using various NDE techniques.
11/12-Present	**US-90 Bayou Ramos Bridge Load Testing & Monitoring, LA** – Due to unexpected cracking in PS concrete beams, BDI performed load tests and load ratings to determine cause and effect of cracks in continuous PS/C girders. After the initial evaluation, monitoring systems were installed on the structure to monitor two sections of structure. Health Monitoring is still ongoing. As lead analysis engineer, Mr. Carpenter performed field-verified load ratings and acts as the project engineer for monitoring system maintenance and troubleshooting.

11/11-Present	**Bonnet Carre Spillway Load Testing and Monitoring, LA –** In 2004, BDI used its Integrated Approach to determine if a 500-ton load could cross the bridge safely. Based on provided configurations, BDI determined the "superload" could cross with stresses below its serviceability limit. In 2011, BDI installed an event-based monitoring system that helps DOTD capture weigh-in-motion data, strains induced by heavy loads, and photos of heavy load. Mr. Carpenter performed superload load ratings and reporting for DOTD and currently acts as the project engineer for monitoring support to DOTD.
07/19–12/19	**St. Claude Lift Bridge Balance and Operation Testing, LA –** Project engineer and field/analysis engineer responsible for counterweight/span balance and friction calculations, and structural performance evaluation on a double heal trunnion Strauss Bascule Bridge. Strain gauge testing and various instrumentation tasks were performed during investigation of a bearing failure on the span to counterweight link.
08/16-05/17	**Live Load Testing of Eight Culverts and Testing, LA –** BDI worked in coordination with LSU, LTRC, and DOTD to perform comprehensive diagnostic live-load tests that allowed these structures to be better evaluated based on induced live-load effects, observed distribution, and general fixity at the culvert walls. BDI manufactured the structural testing system used for this testing based on LSU's specifications and needs. Mr. Carpenter acted as a project and testing engineer on this project.
07/09-11/12	**Load Testing and Rating of 35 Rhode Island Bridges, RI –** BDI performed field testing on 35 bridges located throughout the state of Rhode Island. For all of the structures, BDI collected and reviewed the strain, displacement, and NDE (GPR) data and provided it directly to AECOM for evaluation. For select bridges, BDI also used the field data to calibrate finite element models and develop accurate load ratings using the AASHTO Manual of Bridge Evaluation. Mr. Carpenter acted as analysis and rating engineer responsible for data processing and review, structural analysis, load rating, and reporting.
11/20-06/21	**Terminal 5 Bridge Load Testing and Rating, WA –**Terminal 5 bridge is used by heavy truck traffic to and from the Port of Seattle, WA. As part of BDI's SDOT On-call, instrumentation and load tests were performed on PSC beam and steel girder spans (curved and straight) with the overall goal of to better understand the structures' load distribution and behavior and in turn provide refined load ratings. Mr. Carpenter acted as the lead analysis/rating engineer responsible for data processing, model calibration, and load ratings and reporting according to SDOT/WSDOT specifications.
05/15 – 10/15 02/18 – 08/18	**Truss Monitoring on US 84 Over the Mississippi River, MS –** During the pin replacements on the Natchez cantilever truss over the Mississippi River, BDI performed Structural Health Monitoring (SHM) on the critical truss members and temporary load path systems during pre, during, and post construction. Mr. Carpenter acted as project field and analysis engineer in charge field prep, field installation, data analysis and reporting.

16. Staff Experience:

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Firm employed by Bridge Diagnostics, Inc. (BDI)					
Name	Charles Young, PE		Years of relevant experience with this employer	4	
Title	Nondestructive Evaluation Program Manager		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			MS / 2017 / Structural Engineering / Drexel University BS / 2012 / Architectural Engineering / Drexel University		
Active registration number / state / expiration date			Professional Engineer: 42773 / LA / 3/31/2023		
Year registered	2018	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Nondestructive Evaluation Project Manager and Engineer		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/18-Present	Mr. Young has 11 years of experience in nondestructive evaluation and testing (NDE/NDT), and structural monitoring and testing. BDI, Mr. Young is responsible for project management, analysis, and field services related to NDT of civil infrastructure. He works closely with a multifaceted group of engineers and technicians to perform NDE on bridges, dams, culverts, pavements, and other civil infrastructures. Mr. Young is heavily involved in testing and instrumentation of existing structures using NDE methods (acoustic, ultrasonic, electromagnetic, and electrochemical), performing dynamic and digital signal processing and analysis, and numerical and finite element modelling of complex structures.
05/18 – 12/21	**Nondestructive Evaluation of Unknown Bridge Foundations, LA** – This project aims at performing NDE of more than 500 bridges in the state of Louisiana to determine the unknown or undocumented depths of bridge foundation piles. A proofing step was performed on six bridges to estimate the depth of timber, concrete, and steel piles. Multiple BDI testing and analysis methods including Sonic Echo/Impulse Response (SE/IR), Ultraseismic (US), and Parallel Seismic Survey (PSS) were utilized. Mr. Young was the project manager.

10/18 – 08/19	**Sunshine Truss Emergency Monitoring, LA –** In 2018, the Sunshine Truss Bridge was struck by a crane barge, significantly damaging a bottom chord member. As part of the M&M response team, BDI quickly deployed a laser displacement sensor to monitor the behavior of the damage member. Once a monitoring plan was developed and approved by the team, BDI installed strain gages on nearby chord members that were used to evaluate the state of the structure before, during and after the replacement of the damaged bottom chord member. Mr. Young acted as an installation technician, and site supervisor for this project.
01/19 - Present	**Bonnet Carre Spillway Inspection and Nondestructive Evaluation, LA –** This project involves an NHI routine inspection of the Bonnet Carre Spillway Bridge and targeted nondestructive evaluation techniques at various critical portions of the structure. This work was performed under an IDIQ Contract for Non-destructive Evaluation of Structures for DOTD. Also included were supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young is the project engineer and lead bridge inspector for this project.
08/19 – 07/20	**City Park Lake Bridge Inspection and Nondestructive Evaluation, LA –**NHI routine inspection of the City Park Lake Bridge and targeted nondestructive evaluation. This work was performed under an IDIQ Contract for Non-destructive Evaluation of Structures for DOTD. Nondestructive evaluation included a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Also included in the nondestructive evaluation is Infrared Thermography of the superstructure and substructure of the bridge. Mr. Young was the project manager.
08/19-12-21	**US Army Corps Evaluation of Advanced Weld Inspection Methods –** As USACE's ongoing want to improve inspection techniques, BDI was awarded a Task Order under its IDIQ to identify and determine best practices for steel weld inspection utilizing advanced ultrasonic testing (UT) methods such as phased array ultrasonic testing (PAUT) and total focus method / full matrix capture (TFM/FMC). These advanced methods improve the reliability and repeatability of weld inspection and flaw sizing for fitness for service level analysis. Mr. Young helped develop the testing means and methods that were performed on eight lab samples and four comprehensive in-field bridge weld inspections. Based on these findings, USACE expanded the scope to scan further areas of concern on one of the bridges.
06/20-09/20	**West Seattle High Bridge, WA –** BDI was contracted by Seattle DOT to provide a nondestructive testing and structural health monitoring program to help evaluate performance of the structure during first phase of retrofitted internal post-tensioning. The monitoring program helped the Seattle DOT make decisions and resulted in the next phase of strengthening to open the bridge by 2022. Mr. Young acted as the Task Order Manager and Lead Field Engineer for this project.

16. Staff Experience:

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Firm employed by: A P S Engineering and Testing, LLC				
Name	**Sergio Aviles, P.E.**		Years of experience with this firm/employer	9
Title	PRESIDENT		Years of experience with other firm(s)/employer(s)	10
Degree(s) / Years / Specialization		BS Civil Engineering/2001/Geotechnical		
Active registration number / state / expiration date		0033571/ LA / 03-31-2022		
Year registered	2007	Discipline	Civil	
Contract role(s) / brief description of responsibilities		**Project Manager/Design guidance/Field Crew and lab management**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/19-06/20	**Project No. H.004100: I-10 Widening LA 415 to Essen LN**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU lakes. Along with this drillingand sampling APS will also test for strength and engineering characteristics of the soils with. A total of eight (8) over the waterborings and 44 land borings with approximate 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Aviles was the project manager to the Geotechnical Investigations. CMAR project
08/16-10/19	**Project No. H.012422: I-10/I-110 Interchange Modification at Terrace Ave**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave exit. APS tested for strength and engineering characteristics of the soils with approximate 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits by A P S Laboratory. Mr. Aviles was the project manager to the Geotechnical Investigations.
11/17-2/18	**Project No. H.013193 US 61 Thompson Creek Bridge Replacement**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. APS tested for strength and engineering characteristics of the soils. Mr. Aviles was the project manager to the Geotechnical Investigations.
11/19-Present	**Project No. H.001352 and H.002273 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge LA 67 and LA 19**- A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical designers for the project. Mr. Aviles is the project manager for the project design team. CMAR project
03/19-05/19	**Project No. H.001344 US 190 over Bogue Falaya River**- A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Aviles is the project manager for the project design team.

12/19-3/20	**Project No. H.010155 US 90 Railroad Overpass SE of LA 85-** A P S was selected with the winning team for the GeotechnicalInvestigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendation. Mr. Aviles is the project manager for the project design team.
02/17-10/17	**Project No. H.002861 Earhart Expressway/Causeway Boulevard:** APS was tasked with developing the LRFD factors for both existing structures and the new elevated sections to connect to Causeway Blvd. Per the task order APS drill and tested 85 borings to 120 feet near the proposed and existing structures. APS engineering staff provides designer with pile tip elevations for five elevated ramps to connect Earhart to Causeway Blvd. Provided boring logs, information on site conditions, site preparation recommendations, and load- length curves. Mr. Aviles is the project manager to the Geotechnical investigations and analysis assigned to help calculating the resistance factors.
07/14-08/14	**Project No. 700-51-0110: US 90 elevated portion for the future I-49 corridor.** APS performed all the preliminary drilling, testing, and CPT for US 90 and Highway 318 Intersection. A total of 46 boring and 11 CPT along with all the testing required by LADOTD. Mr. Aviles was the project manager to the Geotechnical investigations and analysis as assigned for roads and bridges design.
2001-2005	The following lists consist of projects that Mr. Aviles did the design or assisted on the design while at LADOTD. These projects include pile design, slope stability, settlement analysis, and construction services (PDA, CAPWAP, and WEAP). **ONSYSTEM PROJECTS LIST:** Mr. Aviles served as the staff geotechnical engineer while at the Pavement and Geotechnical Section for the following projects below: Below projects varies from Embank Design, Pile Design, Drilled Shaft design, MSE wall design, and construction supervision. Major projects cost estimated over one million dollars: 015-04-0037 LA524-LA123 Route US165, 015-05-0035 LaSalle, 015-07-0044 (Route 165 Cadwell, 276-03-0016 Tangipahoa River Bridge, 3132 Innerloop 427-01-0029, 362-01-0009 Rat Bois, 452-01-0039 I-55 CrossOvers, 742-07- 0098 Susek Drive, Bayou Perrie and Sand Beach Bayou 103-01-0025, Broadway Ave.700-40-0127, Cameron Route La. 27 193-02-0042, Causeway Boulevard interchange Route I-10 450-15-0098,Clayton-Greenville 026-03-0025, Crescent City Connection 283-08-0143(46), Cross Bayou Bridge 090-01-0020, Flannery at Florida 742-17-0008.

Firm employed by: A P S Engineering and Testing, LLC					
Name	**Sairam Eddanapudi, M.E., P.E.**			Years of experience with this firm/employer	9
Title	CHIEF ENGINEER			Years of experience with other firm(s)/employer(s)	8
Degree(s) / Years / Specialization			ME, Civil Engineering, Lamar University, Dec. 2002 BE, Civil Engineering, Sri Venkateswara University, India Aug. 1999		
Active registration number / state / expiration date			0035129/ LA / 03-31-2022		
Year registered	2008	Discipline	Civil		
Contract role(s) / brief description of responsibilities			**Laboratory QA Manager- Will be in charge all daily operation of the project/QA/Design Engineer**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	PROJECT NAME: Location, ST. *Role on Project:* Description of role
09/19-Present	**Project No. H.004100: I-10 Widening LA 415 to Essen LN**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU lakes. Along with this drillingand sampling APS will also test for strength and engineering characteristics of the soils with. A total of eight (8) over the waterborings and 44 land borings with approximate 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Sai was the project QA to the Geotechnical Investigations. CMAR project
08/16-10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave exit. APS tested for strength and engineering characteristics of the soils with approximate 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits by A P S Laboratory. Mr. Sai was QA to the Geotechnical Investigations.
11/17-2/18	**Project No. H.013193: US 61 Thompson Creek Bridge Replacement**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. APS tested for strength and engineering characteristics of the soils. Mr. Sai was QA to the Geotechnical Investigations.
11/19-Present	**Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge LA 67 and LA 19**- A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be theGeotechnical designers for the project. Mr. Sai is the Senior Design Engineer for the project design team.
03/19-05/19	**Project No. H.001344: US 190 over Bogue Falaya River**- A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundationrecommendation. Mr. Sai is the Senior Design Engineer for the project design.

Firm employed by: A P S Engineering and Testing, LLC					
Name	**Mr. Surendra Raj Pathak, M.S., P.E.**			Years of experience with this firm/employer	5
Title	STAFF ENGINEER			Years of experience with other firm(s)/employer(s)	10
Degree(s) / Years / Specialization			MSCE (Master of Science in Civil Engineering), Mississippi State University, Starkville, Mississippi, 2013 M. Sc. Master of Science in Civil Engineering, Norwegian University of Science and Technology, Trondheim, Norway, 2007 B.E. (Civil Engineering), Madan Mohan Malaviya University of Technology, India, 1998		
Active registration number / state / expiration date			0043487/ LA / 09-30-2023		
Year registered	2019	Discipline	Civil		
Contract role(s) / brief description of responsibilities			**Staff Engineer-Review field logs, lab data, and Design Engineer**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/19-Present	**Project No. H.004100: I-10 Widening LA 415 to Essen LN**- A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU lakes. Along with this drillingand sampling APS will also test for strength and engineering characteristics of the soils with. A total of eight (8) over the waterborings and 44 land borings with approximate 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Surendra was the project QC to the Geotechnical Investigations.
08/16-10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave**- A P S was tasked thru our DOTD geotechnicalretainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave exit. APS tested for strength and engineering characteristics of the soils with approximate 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU)and Atterberg Limits by A P S Laboratory. Mr. Surendra was QC to the Geotechnical Investigations.
11/17-2/18	**Project No. H.013193: US 61 Thompson Creek Bridge Replacement**- A P S was tasked thru our DOTD geotechnicalretainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. APS tested for strength and engineering characteristics of the soils. Mr. Surendra was QC to the Geotechnical Investigations.
11/17-2/18	**Project No. H.002273, H.000710, and H.001352 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge LA 67 and LA 19:** A P S was tasked thru our DOTD geotechnical retainer to drill and sample a total of 12 deep borings for the new and replacement bridges at Highway 19, 67, and 964. APS tested for strength and engineering characteristics of the soils. Mr. Surendra was QC to the Geotechnical Investigations.
11/19-Present	**Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge LA 67 and LA 19**- A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be theGeotechnical designers for the project. Mr. Surendra is a design Engineer for the project design team.

03/19-05/19	**Project No. H.001344: US 190 over Bogue Falaya River-** A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Surendra is a design Engineer for the project design team.
12/19-3/20	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85-** A P S was selected with the winning team for the GeotechnicalInvestigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendation. Mr. Surendra is a design Engineer for the project design team.

16. Staff Experience:

Firm employed by KTA-Tator, Inc.				
Name	Robert S. Lanterman		Years of relevant experience with this employer	15
Title			Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.E./1999/Chemical Engineering/Youngstown (OH) State University	
Active registration number / state / expiration date			SSPC Certified Protective Coatings Specialist (#2015-820-136), expiration 12/31/2023 NACE Certified Coatings Inspector Level 3 (#13505), expiration 05/23/2025)	
Year registered		Discipline		
Contract role(s) / brief description of responsibilities			Coatings Consultant – coating condition assessment and sampling services	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/21 – Present	**IWGO Bridge, Baton Rouge, LA – Louisiana DOTD** **Coatings Consultant** performing a coating condition assessment **(visual examination, coating thickness and adhesion measurements, substrate examination and coating sample procurement),** and assisting with the development surface preparation, coating application, and environmental/worker protection and containment specifications/drawing notes for the rehabilitation of this bridge. KTA is a subconsultant to another engineering firm.
07/20 – 08/20	**Denison Harvard Bridge, Cleveland, OH - Cuyahoga County (OH) Department of Public Works** **Coatings Consultant** for the coating condition assessment supervision of coatings laboratory testing, development of a maintenance painting strategy and recommendations, and development of an opinion of probable costs for the maintenance painting of this bridge. KTA was a subconsultant to another engineering firm.
02/20 – 05/20	**Jackson Street (Red River) Lift Bridge, Alexandria, LA – Louisiana DOTD** **Coatings Consultant** for the coating condition assessment, supervision of coatings laboratory testing, and report preparation for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.

02/18 – 06/19	**Walt Whitman Bridge NJ Approach Spans, Gloucester, NJ – Delaware River Port Authority** **Coatings Consultant/Project Engineer** for this project involving a coating condition assessment of the approach spans to develop future maintenance painting strategies for the structures. KTA also conducted a Relative Risk Characterization that focused on the impacts to the environment, the public, and adjacent workers resulting from the proposed surface preparation activities (removal of lead-based paint). KTA was a subconsultant to another engineering firm.
10/18 – 03/19	**Kootenay River Bridge, Creston, BC, Canada – British Columbia Ministry of Transportation** **Coatings Consultant** for the coating condition assessment, supervision of coatings laboratory testing, and preparation of a report with recommendations for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.
09/18 – 12/18	**Argentia Newfoundland Ferry Dock Transfer Bridge, Newfoundland, Canada – Port of Argentia DOT** **Coatings Consultant** for the coating condition assessment, supervision of coatings laboratory testing, and developmment of recommendations for future maintenance painting of the structural steel end span of this bridge. KTA was a subconsultant to another engineering firm.
07/17 – Present	**Benjamin Franklin Bridge, Philadelphia, PA – Delaware River Port Authority** **Coatings Consultant/Project Engineer** for the coating condition assessment of the bridge to develop a future maintenance painting strategy. Additional services include providing contractor containment and paint submittal review services for the maintenance painting and steel repair work on this bridge. KTA is/was a subconsultant to another engineering firm.
03/17 – 05/17	**US 90 Morgan City Bridge and Nearby Structures, Morgan City, LA – Louisiana DOTD** **Coatings Consultant** for the coating condition assessment, supervision of coatings laboratory testing, and report preparation with recommendations for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.
02/17 – 03/17	**I-310 Luling Bridge, Luling, LA – Louisiana DOTD** **Coatings Consultant** for the coating condition assessment of the weathering steel towers and girders, and preparation of a report detailing the conditions found and providing recommendations for the remediation of the corrosion problems on this bridge. KTA was a subconsultant to another engineering firm.
09/16 – 12/16	**South Street Viaduct, New York City (Manhattan), NY – New York City DOT** **Coatings Consultant** for the coating condtion assessment, supervision of coatings laboratory testing, and preparation of a report with recommendations for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.

16. Staff Experience:

Firm employed by KTA-Tator, Inc.					
Name	Greg R. Richards		Years of relevant experience with this employer	24	
Title	Coatings Consultant		Years of relevant experience with other employer(s)	20	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date			SSPC Certified Protective Coatings Specialist (#2019-809-300), expiration 12/31/2023 NACE Certified Coatings Inspector Level 3 (#6092), expiration 6/30/2023		
Year registered		Discipline			
Contract role(s) / brief description of responsibilities			Coatings Consultant – coating condition assessment and sampling services		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/22 – 03/22	**SR105 at Haulover Creek (Bridge No. 720063) – Florida Department of Transportation** **Coatings Consultant** for project management, coating condition assessment (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement), supervision of coatings laboratory testing, and preparation of the report detailing the results of the field and laboratory investigations and providing recommendations for the rehabilitation of the coating system on various areas of this bridge. KTA was a subconsultant to another engineering firm.
07/21 – 10/21	**US 98 over St. Andrews Bay, Bay County, FL – Florida DOT** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, and preparation of the report detailing the results of the field and laboratory investigations and providing recommendations for the rehabilitation of the coating system on various areas of this bridge. KTA was a subconsultant to another engineering firm.
01/20 – 05/20	**Johns Pass Bridges NB and SB on SR 699, Pinellas County, FL – Florida DOT** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, and preparation of the report detailing the results of the field and laboratory investigations and providing recommendations for the rehabilitation of the coating system on these dual leaf bascule bridges over Boca Ciega Bay. KTA was a subconsultant to another engineering firm.
02/19 – 05/19	**Ramp from I-4 EB to I-75 NB over I-4, Hillsborough County, FL – Florida DOT** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, and assistance with report preparation for the rehabilitation of the coating system on this structure. KTA was a subconsultant to another engineering firm.

03/18 – 06/18	**Plant Avenue Bridge, Tampa, FL – City of Tampa, FL** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, and assistance with report preparation for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.
03/18 – 06/18	**Brorein Street Bascule Bridge, Tampa, FL – City of Tampa, FL** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, assistance with report preparation, and development of the technical (paint) specifications for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.
06/17 – 07/17	**Longboat Key Pass Bridge, Manatee County, FL – Florida DOT** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, assistance with report preparation, and development of the Plan Notes for the rehabilitation of the coating system on this bascule bridge. KTA was a subconsultant to another engineering firm.
03/17 – 03/17	**Dale Earnhardt Memorial Pedestrian Bridge, Daytona Beach, FL – Daytona International Speedway** **Coatings Consultant** for project management, supervision of coatings laboratory testing, and preparation of Plan Notes for the spot painting of this bridge. KTA was a subconsultant to another engineering firm.
02/17 – 05/17	**Six Bridges in Pensacola FL – Florida DOT** **Coatings Consultant** for project management, attendance at the pre-construction meeting, and review/ comments on the painting contractor's QC plan and other coatings-related submittals as required by the FDOT specification for the rehabilitation of the coating system on these bridges. KTA was a subconsultant to another engineering firm.
05/16 – 06/16	**Bridge in Port Canaveral, FL – Florida DOT** Coatings Consultant **for project management, coating condition assessment, supervision of coatings laboratory testing, assistance with report preparation, and development of the Plan Notes for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.**
02/16 – 06/16	**Circus Bascule Bridges, Sarasota County, FL – Florida DOT** **Coatings Consultant** for project management, coating condition assessment, supervision of coatings laboratory testing, assistance with report preparation, and development of the Plan Notes for the rehabilitation of the coating system on these bridges. KTA was a subconsultant to another engineering firm.
03/15 – 08/15	**Jones Loop Road over I-75, Charlotte County, FL – Florida DOT** Coatings Consultant for project management, coating condition assessment, supervision of coatings laboratory testing, assistance with report preparation, and development of the Plan Notes for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.

16. Staff Experience:

Firm employed by KTA-Tator, Inc.					
Name	Pedro M. Sanchez		Years of relevant experience with this employer	3	
Title	Coatings Consultant		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization			B.S./1991/Civil Engineering/University of Zulia, Maracaibo, Venezuela		
Active registration number / state / expiration date			SSPC Certified Protective Coatings Specialist (#2020-320-303), expiration 12/31/2024 NACE Coatings Inspector CIP Level 2 (#19657), expiration 5/31/2022		
Year registered		Discipline			
Contract role(s) / brief description of responsibilities			Coatings Consultant – coating condition assessment and sampling services		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/18 – Present	**Coatings Consultant/Project Engineer – Various Clients** Mr. Sanchez conducts coating condition assessments on various structures (bridges, storage tanks, pipelines, tank farms, etc.); analyzes data and develops maintenance strategies based on information from the KTA Coating Assessment and Painting Priority (CAPP®) computer software program; develops opinions of probable costs based on one or more coating system maintenance strategies, performs independent investigations of coating failures; enhances KTA's industry presence through committee participation, preparation of technical papers, and delivery of presentations at conferences and symposia.
01/22 – 02/22	**SR105 at Haulover Creek (Bridge No. 720063) – Florida Department of Transportation** **Coatings Consultant** for a coating condition assessment on this bridge located in Duval County, FL. Mr. Sanchez assisted with the assessment and with the preparation of the client report which provided a discussion of the field and laboratory investigations along with recommendations of the rehabilitation of the coating systems present on these structures. KTA was a subconsultant to another engineering firm.
03/21 – 05/21	**Channel Islands ANG Base, Oxnard, CA and Randolph Air Force Base, TX** **Coatings Consultant** for coating condition assessments on various structures at these military bases. KTA was a subconsultant to another engineering firm.
02/21 – 03/21	**Canal Lock Gates, Panama Canal** **Coatings Consultant** providing assistance with a full coating survey/condition assessment related to the 2016 expansion project of the Panama Canal. The survey/assessment involved evaluating the amount of corrosion and condition of the coating systems on 16 canal lock gates across the length of the Canal. KTA was a subconsultant to another engineering firm.

10/20 – 02/21	**Joint Base Pearl Harbor-Hickman, Oahu, HI** **Coatings Consultant** for coating condition/corrosion assessment on the exterior surfaces of pipelines and other items in various locations at this military base and provided recommendations for appropriate maintenance painting strategies. KTA was a subconsultant to another engineering firm.
10/19 – 03/20	**Andrews Avenue Bascule Bridge, Ft. Lauderdale, FL – Broward County, FL** **Coatings Inspector** for full-time QA inspection services during the surface preparation and coating application operations for the repainting project on this bridge. KTA was a subconsultant to another engineering firm.
03/19 – 08/19	**Hard Rock Stadium, Miami Gardens, FL** **Coatings Inspector** for full-time QA inspection services during the surface preparation and coating application operations for the repainting project on this stadium. KTA was a subconsultant to another engineering firm..
07/07 – 12/16	**Employee of Belzona, Inc., Miami, FL** **Regional Manager for Latin America – Technical Service and Business Development** • Developed strategic framework for the operating businesses and oversaw implementation of business objectives. Conducted extensive market research: industry per country, competitive analysis, and income potential • Investigated coating failures: deionized tank coatings in a brewery (Venezuela) and discoloration of an airplane hangar concrete floor coating (Columbia) • Wrote various specifications, including Latin American water/waste water plants and various oil/gas clients in Brazil, Mexico, and Venezuela • Developed and instructed various training courses (in Spanish and English) for coating inspection and coating product selection, both in-person and via webinars • Promoted and created new markets with product offerings across the North and South American distribution network. Industrial markets include transportation, oil/gas, power generation, potable water, and wastewater facilities.

SECTION 17:
FIRM EXPERIENCE

- VOLKERT
- WSP
- STV
- BURGESS
- BDI
- APS
- KTA

VOLKERT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

17. Firm Experience:

Identify the team's project experience most relevant to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Volkert, Inc.	**Past Performance Evaluation Discipline(s)***	Bridge
Project name	Causeway Shoulder Bay Improvements	**Firm responsibility (prime or sub?)**	Prime
Project number	N/A	**Owner's name**	Greater New Orleans Expressway Commission (GNOEC)
Project location	Jefferson Parish, LA	**Owner's Project Manager**	Carolton Dufrechou
Owner's address, phone, email	3939 N. Causeway Boulevard #400, Metairie, LA 70002; 504-835-3118; cdufrechou@gnoec.org		
Services commenced by this firm (mm/yy)	07/2018	**Total consultant contract cost ($1,000's)**	$1,123
Services completed by this firm (mm/yy)	012/2020	**Cost of consultant services provided by this firm ($1,000's)**	$1,123

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

* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past perfmance evaluation discipline(s) this project is being used to represent.

Staff to be used in this proposal:

- Janet Evans, PE, MBA
- Hossein Ghara, PE, MBA
- Jacob Parker, PE
- Ashley Beckendorf, PE

Louisiana's Lake Pontchartrain Causeway, the longest continuous bridge over water in the world, is in need of shoulders to increase safety on the bridge. Volkert was selected to design these essential and long-awaited shoulder additions. The bridge shoulders, comprising 12 bays that will provide a safe space for disabled vehicles to pull over out of traffic. They will also increase safety for motorists and emergency personnel in the event of a crash. This project was executed using the Construction Manager at Risk alternative delivery method, a first for the state of Louisiana. The design includes shoulders that are 16 feet wide and 1,008 feet long and consisting of LG Girders. Piles will be barged to the work site and driven into the lake bed by barge mounted pile driving equipment. The precast caps and deck units will also be brought in by barge and lifted into place. Concrete will then be poured to connect the existing bridge deck to the new. A joint permit application has been sent and accepted by OCM for a CUP (Coastal Use Permit) for both the full pile package and the advance pile package. A Coast guard permit has been applied for but since the project won't affect the navigational channel should be approved upon submission. Volkert designed the original northbound span of the bridge in 1969, which won an American Institute of Steel Construction award in the movable span category.

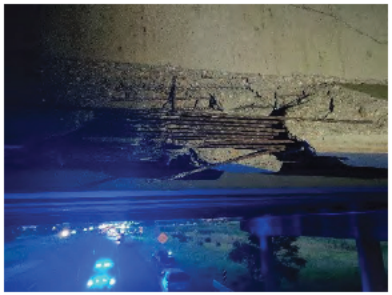
Firm name	Volkert, Inc.	**Past Performance Evaluation Discipline(s)***	Bridge
Project name	Oak Harbor Bridge Replacement	**Firm responsibility (prime or sub?)**	Subconsultant
Project number	N/A	**Owner's name**	LADOTD c/o Korts Construction Services
Project location	Slidell, LA	**Owner's Project Manager**	Wayne Pontiff, Jr.
Owner's address, phone, email	2182 Manton Drive, Covington, LA 70433; 985-898-0932; wpontiff@kortsconstructionservices.com		
Services commenced by this firm (mm/yy)	09/2020	**Total consultant contract cost ($1,000's)**	$182
Services completed by this firm (mm/yy)	09/2021	**Cost of consultant services provided by this firm ($1,000's)**	$182

The bridge was struck by an excavator on a lowboy and several of the girders were damaged.

Volkert provided a design and plans to repair the Oak Harbor bridge over I-10. The repair was designed is an in-place repair for any damaged prestressed girders as a result of the accident. Volkert followed the processes and procedures required by LADOTD to authorize the in-place repair. As a subconsultant to Kort Volkert reviewed as-build drawings and current inspection reports for the bridge prior to design, participated in field visits to perform damage assessments, and prepared a recommendation report that detailed the damages and load rating analysis to verify current capacity with current stresses on the structure. Volkert also provided as needed construction administration during the repairs.

Staff to be used in this proposal:

- Janet Evans, PE, MBA
- Hossein Ghara, PE, MBA
- Jacob Parker, PE
- Britt Bumpers, PE, CBI, CTI
- Robert Scheeler, PE, CBI, CTI



Firm name	Volkert, Inc.	**Past Performance Evaluation Discipline(s)***	Road
Project name	MacArthur Interchange Completion – Phase II	**Firm responsibility (prime or sub?)**	Subconsultant
Project number	H.011309	**Owner's name**	LADOTD c/o SDR Engineering Consultants, Inc.
Project location	Jefferson Parish, LA	**Owner's Project Manager**	Jacob Parker, SDR
Owner's address, phone, email	a. 2820 Continental Drive #100, Baton Rouge, LA 70808, 225-444-5671; JParker@sdrengineering.com		
Services commenced by this firm (mm/yy)	10/2015	**Total consultant contract cost ($1,000's)**	N/A
Services completed by this firm (mm/yy)	09/2020	**Cost of consultant services provided by this firm ($1,000's)**	$391,845

This project involves the addition of new on and off-ramps and the demolition of an existing off-ramp to the West Bank Expressway in Jefferson Parish. The addition of these new structural elements requires the relocation of the adjacent frontage road from Peters Road to Manhattan Blvd. The total project length is 1.947 miles including the ramps. The project is currently in the Preliminary Plans phase approaching 90% and will proceed into Final Design.

Staff to be used in this proposal:

- Janet Evans, PE, MBA
- Ashley Beckendorf, PE

Volkert is responsible for the design of the geometry for the entire project as well as the design of the relocated frontage road and its connection to the new on and off ramps and the existing tunnel and a right turn lane on Peters Road. This design includes new subsurface drainage, sequence of construction in a congested area, and the development of preliminary and final roadway plans to be included in the overall project set. Ms. Lisa Frugé serves as the Project Manager for Volkert's portion of the work. Ms. Frugé developed the horizontal and vertical geometry of the road and ramps as well as developing the corridor and determining the necessary right of way taking, sequence of construction, cross sections, and cost estimates.

Firm name	Volkert, Inc.	**Past Performance Evaluation Discipline(s)***	Bridge
Project name	Natrionwide Bridge Inspection Services	**Firm responsibility (prime or sub?)**	Prime
Project number	0509301.100	**Owner's name**	Eastern Federal Lands Highway Division (EFLHD)/FHWA
Project location	Orleans / St. Tammany Parishes, LA	**Owner's Project Manager**	Kurt Brauner, PE
Owner's address, phone, email	21400 Ridgetop Circle Sterling, VA, 703-404-6252, Marcus.Miller@dot.gov		
Services commenced by this firm (mm/yy)	07/2005	**Total consultant contract cost ($1,000's)**	$4M
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	N/A

Volkert has been selected for three consecutive cycles, beginning in 2005, by the EFLHD to provide NBIS and element level inspections for structures owned and operated by the National Park Service (NPS) and other federal agencies such as the United States Forest Services (USFS), and various Air Force Bases. These facilities include national parks, tunnels, battlefields, monuments, historic sites, parkways, and other federal facilities. This is an IDIQ contract assigned by individual task orders to identify structural or functional deficiencies and make recommendations and cost estimates for repairs. 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.

Under these contracts, Volkert has performed nearly 5,000 bridge inspections and over 900 load ratings in 45 states and Washington, DC including the tunnels at the Cumberland Gap in Tennessee and the Baker Barry Tunnel in California.

These inspections have required use of specialized equipment such as UBIVs, man-lifts, tracked man-lifts, dive gear/equipment and boats for access and safety. For projects requiring UBIVs or man-lifts, traffic control/ management was performed to keep traffic flowing freely during inspections. After field inspections are completed, Volkert prepares bridge inspection reports with all data related to the inspection, and recommends, if necessary, repairs, rehabilitation, or if future inspections are required, then submits them to the FHWA in the EFLHD's inspection software format.

Staff to be used in this proposal:

- Aaron Immel, PE, CFM, CBI, CTI
- Matt Burnett, PE, CBI, ADCI, CTI
- Robert Scheeler, PE, CBI, CTI
- Britt Bumpers, PE, CBI, CTI
- Stephen Dossett, PE, CBI, CTI
- Paul Swann, CBI
- Todd Powell, CBI

Firm name	Volkert, Inc.	**Past Performance Evaluation Discipline(s)***	Bridge
Project name	Complex Bridge Inspections throughout Mississippi	**Firm responsibility (prime or sub?)**	Prime
Project number	1053305.000	**Owner's name**	Office of State Aid Road Construction (OSARC)
Project location	Daphne, AL	**Owner's Project Manager**	Harry Lee James, PE
Owner's address, phone, email	412 E Woodrow Wilson Ave, Jackson, MS 39216, (601) 359-7150, mail@osarc.ms.gov		
Services commenced by this firm (mm/yy)	06/2016	**Total consultant contract cost ($1,000's)**	$14.6M
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	N/A

Volkert recently began working on our fourth cycle of work for the Office of State Aid Road Construction (OSARC), providing complex bridge inspections on selected bridges located throughout the state of Mississippi. The project consists of National Bridge Inspection Standards (NBIS) inspections, scour evaluations, and load ratings of these selected bridge sites. The bridges are owned and maintained by the various counties, cities, and towns throughout the state. These bridges include steel bridges with fracture critical members, specifically continuous plate girders, steel girders, railroad flat cars, and movable bridges.

These bridges also include approach spans made of timber, precast concrete, or prestressed concrete beam spans. In addition to the fixed bridges under OSARC's responsibility, they are responsible for four movable bridges: one lift bridge, one swing bridge, and two bascule bridges. Volkert inspector teamed with FIT Engineering to perform the rope access inspection of the towers at the lift bridge. Volkert also inspected the mechanical and electrical systems for these movable bridges. At the bascules and swing bridge, Volkert engineers performed detailed inspections of the mechanical and hydraulic systems that power the movement of the spans to allow maritime traffic to pass under the bridges.

Staff to be used in this proposal:

- Aaron Immel, PE, CFM, CBI, CTI
- Britt Bumpers, PE, CBI, CTI
- Paul Swann, CBI
- Todd Powell, CBI
- Robert Scheeler, PE, CBI, CTI
- Stephen Dossett, PE, CBI, CTI
- Jacob Parker, PE

For each bridge inspected, Volkert develops a bridge inspection plan which outlines access method and equipment required, traffic control requirements, railroad permit requirements including contact information and permit acquisition procedures, and inspection time and personnel requirements. These plans also identify the fracture critical members and the frequency of inspection. The plans are approved by OSARC and FHWA prior to commencing the inspections. In addition to performing in-depth inspections, Volkert also reviews load ratings using AASHTOW are (Bridge Rating). At the conclusion of each inspection, a detailed written inspection report is prepared in InspectTech/AssetWise detailing damage/deterioration assessments, NBI condition/appraisal ratings, scour evaluation, photographic evidence of the findings and recommendations for repairs. A copy of the report is also submitted to the individual county, city, or town who owns the bridge.

17. Firm Experience:

Firm name	**WSP USA, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Johns Pass Bascule Bridge Replacement		Firm responsibility (prime or sub?)	Prime	
Project number	71127	Owner's name	Florida Department of Transportation, District 7		
Project location	Tampa, FL		Owner's Project Manager	Thomas A. Andres, PE	
Owner's address, phone, email	605 Suwannee St., MS 33 Tallahassee, FL 32399-0450; 850.414.4269; thomas.andres@dot.state.fl.us				
Services commenced by this firm (mm/yy)	10/03	Total consultant contract cost ($1,000's)		$2,929	
Services completed by this firm (mm/yy)	9/13	Cost of consultant services provided by this firm ($1,000's)		$2,300	

The first bridge was built in the early 1930s and was a low-level, two-lane drawbridge. A second bridge, a new twin-span, was built and opened in 1971 along a different alignment to save right-of-way costs. Replacement was necessary since the first bridge was in danger of collapsing should a major storm occur. The original span to the east was demolished. In 1981, the bridge began having problems and additional piers were installed underneath the existing pier bents for support. The new bridge is a four-leaf bascule (twin parallel bridges) replacing an existing bridge over a swift moving channel and are built on the same alignment as the existing bascule structures.

Firm Role: WSP provided project management, inspection, preliminary, final and post design services. The foundations for the existing twin double-leaf bascule bridge were undermined due to scour caused by the prevalent swift tidal currents. WSP designed the new twin double-leaf bascule bridges to resist the scour and meet all current design standards, including accommodating a wider 100-foot navigational channel compared to the existing 60-foot channel.

Highlights: ***Structural***: To help reduce scour, the piers were built parallel to the channel and with "Vee" shaped faces to improve hydrodynamics. The bridge features Exodermic Deck System, a closed, relatively light-weight deck system, to provide improved ride and noise reduction. The deck was constructed in phases to minimize impact on marine traffic. The short counterweight was critical in keeping the pit elevation relatively high and building a water-line bascule pier foundation; ***Mechanical***: Each leaf, including the counterweight, weighed approximately 2,700,000 pounds. The operating machinery design utilizes a traditional rack and pinion configuration with redundancy in the drive motors and controls.; ***Electrical***: Enclosed speed reducers were utilized to ensure easier maintainability. The drives will be modern low maintenance electronic d.c. drives connected to a modern industrial hardened programmable logic control system.; ***Architectural/Aesthetics***: Steel box girder superstructure was chosen to combine enhanced aesthetics with increased torsional rigidity. Also, the tender house, bridge piers and other structural elements were designed to incorporate aesthetics in the structural shapes and geometry.

Staff: Trevor Johnson, Graciela Patino, Chris Ray

Firm name	**WSP USA, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	West Columbus Drive Swing Bridge over the Hillsborough River		Firm responsibility (prime or sub?)	Prime	
Project number	15565	Owner's name	Florida Department of Transportation, District 7		
Project location	Tampa, FL		Owner's Project Manager	Mike Williams	
Owner's address, phone, email	601 E. Kennedy Blvd., Tampa, FL 33602; 813.307.1851; williamsm@hillsboroughcounty.org				
Services commenced by this firm (mm/yy)	09/08	Total consultant contract cost ($1,000's)	$2,400		
Services completed by this firm (mm/yy)	04/15	Cost of consultant services provided by this firm ($1,000's)	$2,014		

The West Columbus Dr. bridge was constructed in 1926, carries four lanes of vehicular traffic with two sidewalks. The bridge is listed in the National Register of Historic Places in the City of Tampa. The bridge consists of 11 approach spans flanking a movable swing span. The swing span is comprised of asymmetrical, "bob-tail" type steel pony trusses.

Firm Role: WSP conducted a PD&E study including roadway and structural engineering; natural, physical, and social environmental impacts; and bridge aesthetics to evaluate the best engineering solution for the bridge. WSP provided the rehabilitation design which included structural, mechanical, and electrical components for this historic structure. In-Depth structural, mechanical, and electrical inspections were performed with an extended service life objective. The bridge development report (BDR) was completed by WSP.

Highlights: **Collaboration** with SHPO to preserve the historic elements of the structure. Modifications to the control house within SHPO guidelines to provide adequate working clearance around the electrical and mechanical equipment were made. Awards: 2013 Preservation Award (Tampa Preservation, Inc.); ***Steel Swing Span Structure*** - Replace steel stringers from the long arm, lateral bracing gusset plate and single angles, truss lower chord splice plates and chord stay (batten) plates, truss chord lacing bars, fascia plates from the sidewalk support framing, interior channels from the sidewalk support framing, vertical curb plates, open steel grid deck on the long arm, concrete-filled grid deck on the long arm, concrete deck slab on the short arm, concrete barriers with steel post and tubular rail traffic barriers concrete sidewalk slabs. Replace or repair several vehicle-impacted truss members. Install steel post and tubular rail traffic barriers along swing span curb-lines. Rehabilitate ornate steel bridge railings along fascia. Refurbish the machinery room at the Pivot Pier. Repair spalled/cracked concrete in the substructure.; ***Mechanical*** - The machinery consists of an electro-mechanical drive system that operates the main drive pinion that engages a semi-circular rack, center and end wedges and end locks. The movable span pivots on an aluminum-bronze center bearing and balance wheels located on the pivot pier. Rehabilitated wedge machinery reducer and rack pinion shaft bearings. Replace wedge machinery brake and main drive rack pinion.; **Electrical** - Replace and relocate the traffic gates, the submarine cables, control cabinet and control panels, motor control center, emergency generator and automatic transfer switch, and main drive motor and controller for semi-automatic operation with Variable Frequency Drives. Provide lightning protection, intercom, and public address systems.

Staff: Trevor Johnson, Graciela Patino, Kevin Walsh

Firm name	**WSP USA, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Brantley Road over Lake Fisher Bridge Replacement		Firm responsibility (prime or sub?)	Prime	
Project number	173610	Owner's name	North Carolina Department of Transportation		
Project location	Cabarrus County, NC		Owner's Project Manager	Khaled Al-Akhdar	
Owner's address, phone, email	1020 Birch Ridge Drive, Raleigh, NC 27610; (919) 707-6321; kalakhdar@ncdot.gov				
Services commenced by this firm (mm/yy)	06/17	Total consultant contract cost ($1,000's)	$220		
Services completed by this firm (mm/yy)	06/21	Cost of consultant services provided by this firm ($1,000's)	$220		

WSP was the lead design engineer for the Brantley Road over Lake Fisher Bridge Replacement. Design work was performed under a supplemental agreement to the NCDOT TIP I-3802A project in Cabarrus County, NC which included 16 total bridge designs. Design required close coordination between structures, hydraulics, roadway, and other related disciplines to determine bridge types. The proposed bridge replaces an existing structurally deficient bridge and was constructed using a road closure.

The proposed replacement structure was a three-span bridge constructed of precast prestressed concrete cored slab units. The bridge design was set to allow an existing 8-inch water main to remain in place during construction.

Firm Role: WSP final design services for this project.

Staff: Thomas Harris

17. Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	STV Incorporated		Past Performance Evaluation Discipline(s)*		
Project name	Belden Bly Bridge Replacement			Firm responsibility (prime or sub?)	Prime
Project number	NA	Owner's name	Massachusetts Department of Transportation		
Project location	Lynn and Saugus, MA		Owner's Project Manager	Michael O'Dowd	
Owner's address, phone, email	Highway Division, Bridge Project Management 10 Park Plaza, Room 6500, Boston, MA 02116 / (857) 368-9292 / Michael.Odowd@state.ma.us				
Services commenced by this firm (mm/yy)	9/11	Total consultant contract cost ($1,000's)		$87,000	
Services completed by this firm (mm/yy)	1/19	Cost of consultant services provided by this firm ($1,000's)		$3,779	

Describe the project including the firm's role and members involved. (STV staff included Jorge Leon)

STV is providing structural, civil, mechanical, electrical, geotechnical, architectural, traffic, and cost estimating services for the design of the new Belden Bly Bridge carrying Route 107 over the Saugus River between Lynn and Saugus, MA. The project has required an in-depth environmental study, a full analysis of the soil conditions, and preparation of plans for a counterweight-over-deck, single-leaf bascule bridge. The 263-foot-long, 3-span structure will be a heel-trunnion, single-leaf bascule and is designed to match sketch plans approved by the Massachusetts Department of Transportation in 2005. The firm has also developed roadway improvement projects for the approaches and a nearby intersection. The design places the counterweight and mechanical equipment above the roadway deck, which provides greater separation between the mechanical and electrical systems and the water without the use of large and expensive enclosed foundation pits.

Prime consultant name: VOLKERT

17. Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	STV Incorporated		Past Performance Evaluation Discipline(s)*		
Project name	Long Island Loop Parkway and Meadowbrook Parkway Bascule Bridges		Firm responsibility (prime or sub?)		Prime
Project number	D262994	Owner's name	New York State Department of Transportation		
Project location	Long Island, NY		Owner's Project Manager	Judes Augustin, P.E.	
Owner's address, phone, email	250 Veteran's Memorial Highway, Hauppauge, NY 11788 / (631) 952-6211 / Judes.Augustin@dot.ny.gov				
Services commenced by this firm (mm/yy)	3/15	Total consultant contract cost ($1,000's)		$20,000	
Services completed by this firm (mm/yy)	4/16	Cost of consultant services provided by this firm ($1,000's)		$917	

Describe the project including the firm's role and members involved. (STV staff included Jorge Leon.)

The Loop Parkway Bridge over Long Creek and the Meadowbrook Parkway Bridge over Sloop Channel are part of a network of roadways connecting mainland Long Island to the Jones Beach State Park. STV developed plans for rehabilitating critical structural, mechanical, and electrical issues that have plagued these 80-year-old structures over the last several decades. STV inspected the bridges to verify the options, prioritize the items, and add or delete items that we felt appropriate and affordable; the budget was $20 million. After a series of scoping meetings and field visits with NYSDOT staff, STV developed options for each bridge. Instead of rehabilitating the functionally obsolete Loop Bridge electrical control systems, STV determined that they should be replaced but salvaged as spare equipment for the Meadowbrook Parkway Bridge. The firm developed structural and mechanical repairs to address the Meadowbrook Parkway Bridge's most serious operational problems, as well as the unique articulated counterweight hangers.

17. Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	STV Incorporated		Past Performance Evaluation Discipline(s)*		
Project name	North Station Draw 1 Bridge Replacement		Firm responsibility (prime or sub?)		Prime
Project number	H32PS01	Owner's name	Massachusetts Bay Transportation Authority		
Project location	Boston, MA		Owner's Project Manager	Karl Eckstrom, P.E.	
Owner's address, phone, email	10 Park Plaza, Suite 3910 Boston, MA 02116 / (857) 329-8231 / keckstrom@mbta.com				
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost ($1,000's)			$480,000
Services completed by this firm (mm/yy)	2/26	Cost of consultant services provided by this firm ($1,000's)			$10,224

Describe the project including the firm's role and members involved. (STV staff included Jorge Leon and Nicholas Altebrando)

STV is providing design, engineering, and construction phase services to the Massachusetts Bay Transportation Authority (MBTA) in support of the replacement of North Station Draw 1 Bridge No. B-16-479 and associated track and signal upgrades. The current movable bridges, a pair of single-leaf Scherzer-type rolling lift spans carrying two tracks each over the Charles River into North Station, were constructed in 1931 and have become increasingly difficult to maintain. The firm will demolish the two existing bridges and replace them with three vertical lift bridges to provide a six-track crossing of the Charles River. Project work also includes a new pedestrian walkway over the Charles, replacement of Signal Tower A, replacement of the two approach track structures, expansion of North Station from 10 to 12 tracks, and track upgrades that extend 1.5 miles north of the station. Signal control system upgrades and unmanned bridge control capability will be provided. The firm is also supervising environmental approvals and permits, agency and stakeholder coordination, and public outreach.

17. Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Burgess & Niple, Inc. (B&N)		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Complex Bridge Rating (On-System Trusses & Other Complex Bridges)		Firm responsibility (prime or sub?)	Sub	
Project number	Contract No. 4400004920	Owner's name	LADOTD		
Project location	Various Locations, Louisiana		Owner's Project Manager	Billy Metcalf	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA (225) 379-1060, william.metcalf@la.gov				
Services commenced by this firm (mm/yy)	04/16	Total consultant contract cost ($1,000's)		$3,600+/-	
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)		$615	

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

B&N's role, as part of TRC's team, included hands-on, in-depth inspections of multiple On-System trusses, including the main spans of the LA47 Intracoastal Waterway Gulf Outlet (IWGO/MRGO) bridge, LA2 over Red River (Millers Bluff), and the deck truss spans of US90 Riverbound in New Orleans. Specialized, adapted rope access techniques were utilized in the field to minimize and/or eliminate the need for costly, time-consuming mechanical access and traffic control. Accurate and detailed field notes were developed for the purposes of load rating all primary truss & floor system members and gusset plates, as well. Tablet computers (iPads) and digitized notes were utilized to add efficiencies to and streamline all phases of the project – mobilization, field work, and reporting. Detailed measurements of section loss, deterioration, misaligned members, and other significant deficiencies were obtained for the purposes of load rating the bridges in accordance with the LRFR methodology. B&N was also responsible for the load rating of the LA2 (Millers Bluff) bridge. Additional work performed as part of Task Order 5 included field assessments and load ratings of 29 Off-System bridges in northwest Louisiana.

Key Staff: Cinadr, Prendeville, Poorman, Kronander, Appler, Case, Goodrich, Richardson, Langdon, Bowie

Firm name	Burgess & Niple, Inc. (B&N)		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Oregon Major Bridge Inspections		Firm responsibility (prime or sub?)	Prime	
Project number	B34825	Owner's name	Oregon DOT		
Project location	Various Locations, Oregon		Owner's Project Manager	Joel E. Boothe, PE	
Owner's address, phone, email	4040 Fairview Industrial Dr. Salem, OR 97302, 503.986.3337, Joel.E.Boothe@odot.state.or.us				
Services commenced by this firm (mm/yy)	06/18	Total consultant contract cost ($1,000's)		$1,431	
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)		$1,431	

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

This ongoing project involves FC, in-depth, and routine inspections of various bridges throughout the state of Oregon. On the State Major Bridge contract, ten bridges including through trusses, deck trusses, arch trusses, steel box girders, and steel tower bents receive FC and/or in-depth inspections. The most complex bridges include the Astoria-Megler truss bridge with a main span of 1232 feet and the Coos Bay McCullough bridge with a main span of 793 feet. Gusset plate conditions are also systematically documented for the purposes of load rating. Recent work also included in-depth inspections of major timber trestle structures including the use of timber boring resistograph NDT methods. Element and defect data are collected, all SI&A inventory data is updated, and NBI Rating data are input into Oregon's BrM database. Condition photographs, a narrative, summary, and repair recommendations for each bridge are included in each report.

Key Staff: Cinadr, Prendeville, Poorman, Kronander, Hyland, Fillmore, Strehler, Case, Goodrich, Langdon, Maurer, Aker, Villier, Bowie

Firm name	Burgess & Niple, Inc. (B&N)		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Oklahoma DOT Off-System Truss & FC Bridge Inspections		Firm responsibility (prime or sub?)	Prime	
Project number	CI-2299A	Owner's name	Oklahoma DOT		
Project location	Statewide, Oklahoma		Owner's Project Manager	Wes Kellogg, PE	
Owner's address, phone, email	200 NE 21st Street, Oklahoma City, OK 73105, 405.522.4819, wkellogg@odot.org				
Services commenced by this firm (mm/yy)	04/21	Total consultant contract cost ($1,000's)		$1,738	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$1,738	

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

This project includes NBIS FC, Routine, and In-Depth bridge inspections of 91 steel truss and girder bridge structures (local agency owned) located throughout the state. Tasks on each structure include inspecting FC members at arm's length with industrial rope access and modified fall protection techniques and beam rolling of floorbeams to access FC members and fatigue prone details. Bridges are inspected at a range in which cracks, section loss, and loose or missing bolts or rivets can be identified in steel members and cracks larger than hairline can be identified in concrete components. Bearings and bearing seats are accessed at arm's length distance. An in-depth narrative for each bridge containing observed conditions, repair recommendations, and condition photographs is developed in addition to BrM database reports. Magnetic Particle, Dye Penetrant, and/or UT measurements are performed to define the limits of any cracking and very accurately measure significant section loss and other deterioration that affects member capacity. Drones/UAV's are also utilized to augment inspection capabilities.

Key Staff: Cinadr, Prendeville, Poorman, Kronander, Hyland, Fillmore, Strehler, Case, Goodrich, Langdon, Aker, Whaley, Bowie

 Prime consultant name:

Firm name	Bridge Diagnostics, Inc. (BDI)		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	Advanced Inspection of City Park Lake Bridges		Firm responsibility (prime or sub?)	Prime	
Project number	H.009730.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Baton Rouge, Louisiana		Owner's Project Manager	Wei Peng	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1486, wei.peng@la.gov				
Services commenced by this firm (mm/yy)	08/19	Total consultant contract cost ($1,000's)		$86	
Services completed by this firm (mm/yy)	07/20	Cost of consultant services provided by this firm ($1,000's)		$61	

BDI performed a NHI visual inspection of bridges 052690 and 052680 carrying I-10 over City Park Lake, which was supplemented by a comprehensive multi-technology nondestructive evaluation (NDE). 052690 and 052680 are a set of sister bridges that each carry 7 spans of I-10. The superstructure is a continuous steel multi-girder design with pin and hanger details and built-up members. Both the EB and WB structures consists of three built-up continuous girders spaced at 20' with WF diaphragms and ST Lateral Wind Bracing. The substructure of the bridge consists of cast in place reinforced concrete bents on round cast-in-place concrete piles and precast concrete piles. NHI visual inspection encompassed the entirety of the structure, while NDE was focused on the reinforced concrete bridge deck and substructure units. The NDE of the substructure included infrared thermography to locate and quantify square footages of delaminations of the piers and pier caps. The NDE of the bridge deck included Infrared Thermography (IR), High-Resolution Imagery (HRI), Deck Acoustic Response (DAR), and GRP, all at highway speeds, to locate and quantify square footages of shallow delaminations and rebar cover of the bridge deck. The visual inspection was conducted using a 360 camera and remote imaging techniques. Footage was collected of the entirety of the substructure and superstructure and reviewed per NHI procedures for any notable deficiencies or maintenance items. The final deliverables of the NDE and visual inspection included the following:

- Stitched High-Resolution images of the entirety of the bridge decks, with overlaid IR, GPR, DAR, and GPR results
- Total quantities of patching, spalling, and delaminations of the bridge decks
- Findings of the visual inspection with all photos, descriptions, and locations of any notable deficiencies and/or maintenance items.
- Synthesis of the visual inspection and NDE to obtain AASHTO Element Level Condition states quantities for the deck and superstructure, which were then uploaded into the owner's asset management program.

Scopes of Work Relevant to the contract:

- LADOTD Project
- Instrumentation
- Nondestructive Testing

Key Members: Shane Boone, Subject Matter Expert; Charlie Young, Project Manager and Lead Bridge & NDE Inspector

Firm name	Bridge Diagnostics, Inc. (BDI)	Past Performance Evaluation Discipline(s)*	Bridge
Project name	Norris Bridge Pin and Hanger NDT, Emergency & Ongoing Monitoring	Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Virginia Department of Transportation (VDOT)
Project location	Whitestone, Virginia	Owner's Project Manager	Annette Adams
Owner's address, phone, email	1401 East Broad Street, Richmond, VA 23219, 540-273-1008, annette.adams@vdot.virginia.gov		
Services commenced by this firm (mm/yy)	10/17	Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm ($1,000's)	$445.8

In 2017 BDI performed an inspection of one hundred forty-six (146) pin and hanger assemblies. The inspection utilized visual and ultrasonic testing methods including straight beam ultrasonic testing (UT) and phased array ultrasonic testing (PAUT) in accordance with the American Society of Nondestructive Testing (ASNT) and Federal Highway Administration (FHWA) Guidelines for Ultrasonic Inspection of Hanger Pins. During this NDT inspection, BDI obtained irregular results on two of the pins. It was not immediately known what the defect was within the pin so the structure was load posted for 15 tons until a load test and monitoring could be added to the catch system. Within 48 hours of discovering the abnormality, BDI designed, built, and installed a wireless strain gage monitoring system on the catch system at these areas. All of the data was transmitted to BDI's monitoring website and displayed on a web-based platform. The system is also providing alerts via SMS, email, and telephone call if/when thresholds are exceeded. Once the construction was complete, BDI removed all instrumentation.

As a risk mitigation step, VDOT decided to expand the monitoring system to all catch systems on the structuutre as well as perform load tasting for several deficient truss bays. This ongoing monitoring program is set to alert the DOT of any change in stress state the catch system experiences, indicating an in-depth inspection of these areas is required. In 2020, BDI was again tasked to perform NDT on all of the pins, similar to the 2017 inspection. No change in condition were found this time, but the catch system monitoring will be left in place indefinitely.

Scopes of Work Relevant to the contract:

- Assessment of Instrumentation Needs and Instrumentation Plan
- Field Instrumentation Installation
- Instrumentation and Nondestructive Testing
- Data Acquisition and Communication
- Instrumentation Maintenance and Problem Resolution
- Load Testing, Data Analysis

Key Members: Brett Commander, Principal-in-Charge; Shane Boone, Steel NDT Subject Matter Expert

Firm name	Bridge Diagnostics, Inc. (BDI)	Past Performance Evaluation Discipline(s)*	Bridge
Project name	IDIQ Contract for Complex Bridge Load Rating Services Task 5 – Off-System Bridge Ratings and Evaluation Statewide	Firm responsibility (prime or sub?)	Sub
Project number	4400010099	Owner's name	Louisiana Department of Transportation and Development
Project location	Various, Louisiana	Owner's Project Manager	Wei Peng
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1486, wei.peng@la.gov		
Services commenced by this firm (mm/yy)	10/21	Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm ($1,000's)	$456

As part of the scope of Task Order 5 of this contract, BDI performed live-load testing and field-verified load ratings on ten (10) off-system structures. These structures were selected from a list of structures that were determined to require load posting based on load ratings previously performed in this contract and included three (3) reinforced concrete slab bridges and seven (7) metal culverts of various types/configurations. These selected structures are intended to be representative of a larger sample set of similar structures that the results are intended to make broader assumptions about the group of bridges as a whole.

Live load tests were performed to aid in evaluating the structures in their current condition. The overall goal of these tests was to better understand the structure's behavior and in turn provide field-verified load ratings for each structure. To achieve this goal, the collected structural responses were used to generate a field-verified finite-element model (FEM) of the structure.

This field-verified FEM was then used to compute field-verifed load ratings according to the AASHTO Manual for Bridge Evaluation (MBE) and the LADOTD Bridge Design and Evaluation Manual (BDEM).

Key Members: Brett Commander, Principal Engineer; Brice Carpenter, Lead Analysis/Rating Engineer; Jesse Sipple, QC Engineer/Project Manager

Scopes of Work Relevant to the contract:

- LADOTD PROJECT
- ASSESSMENT OF INSTRUMENTATION NEEDS
- INSTRUMENTATION PLAN PREPARATION
- FIELD INSTRUMENTATION INSTALLATION
- DATA ACQUISITION AND COMMUNICATION
- INSTRUMENTATION MAINTENANCE AND PROBLEM RESOLUTION
- LOAD TESTING, DATA ANALYSIS, AND LOAD RATING

17. Firm Experience:

Identify the team's project experience most relevant to the scope in the advertisement. The projects should be limited to a total of 20, with more than 3 projects represented by each sub-consultant on the team. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	**A P S Engineering and Testing, LLC**			Past Performance Evaluation Discipline(s)*	**GEOTECH**
Project name	**I-10 Widening LA 415 to Essen LN**			Firm responsibility (prime or sub?)	**Sub**
Project number	**H.004100**	Owner's name	**DOTD**		
Project location	**Baton Rouge**			Owner's Project Manager	Kristy Smith, P.E.
Owner's address, phone, email	1201Capitol Access Rd., Baton Rouge, La. 70802-4438 225-379-1016 Kristy.Smith2@la.gov				
Services commenced by this firm (mm/yy)	**09/19**	Total consultant contract cost ($1,000's)			N/A
Services completed by this firm (mm/yy)	**On-going**	Cost of consultant services provided by this firm ($1,000's)			$400

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

GEOTECHNICAL INVESTIGATION TO PROVIDE CLIE NT WITH THE NECE SSARY INFORMATION FOR PLANNING AND DE SIGN I - 10 WIDENING. A P S WAS T ASKE D THRU O UR DOT D GE OTECHNICAL RET AINER TO DRILL AND SAMPLE A TOTAL OF 52 DEEP BORINGS STARTING AT THE WASHINGTON EXIT AND ENDING AT THE LSU LAKE S. ALONG WITH THIS DRILLING AND SAMPLINGA P S WILL AL SO TEST FOR STRE NGTH AND E NGINEERING CHARACTERISTICS OF THE SOIL S. A TOT AL OF EIGHT (8) OVER THE WATER BORINGS AND 44 L AND BORINGS WITH APPROXIMATE 1000 TRIAXIAL COMPRESSIO N, UNCO NSOLIDATE D DRAINE D OR UNDRAINE D (UU) AND ATTERBERG LIMIT S.

MEMBERS INVOLVED:

ENGINEERING

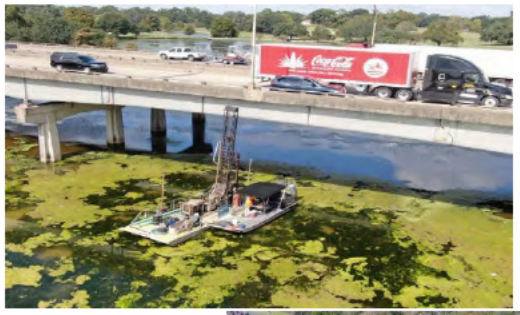
SERGIO AVILE S, P.E.- PROJECT MANAGE R
SAI EDDANAPUDI, M.E., P.E.-PROJECT ENGINEE R
SURENDRA RAJ PATHAK, M.S., P.E.-STAFF ENGINEE R

LABORATORY TESTING

SERGIO AVILE S, PE- QA/ QC
SAI EDDANAPUDI, M.E., P.E.-QA/ QC

DRILLING

MELVIN VASQUEZ -DRILLER TECH
VAN GEORGE-DRILLE R
ERIC BATEASTE-DRILLER



SIMILAR ITIES TO PROFESSI ONAL GEOTECHNICAL SE RVICES IDIQ	
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	Topographic Survey (LC)
X	CMAR
X	Contract Management (CM)

Firm name	**A P S Engineering and Testing, LLC**			Past Performance Evaluation Discipline(s)*	GEOTECH
Project name	**Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge**			Firm responsibility (prime or sub?)	Sub
Project number	H.001352 and H.002273	Owner's name	Huval & Associates, Inc.		
Project location	East Baton Rouge Parish		Owner's Project Manager	Thomas M. Gattle, III, P.E.	
Owner's address, phone, email	Huval & Associates, Inc. 922 West Pont Des Mouton Road Lafayette, LA 70507 Wk: (337) 234-3798 Fax: (337) 234-2475 tgattle@huvalassoc.com				
Services commenced by this firm (mm/yy)	05/20	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	On-going	Cost of consultant services provided by this firm ($1,000's)		$115k	

GEOTECHNICAL ENGINEERING TO PROVIDE CLIE NT WITH THE NECESSARY INFO RMATION FOR PLANNING AND BUILD O F LA 19 RR BRIDGE - SLOPE ST ABIL ITY (EMBANKMENT), L A 19 RR BRIDGE - EMBANKME NT/ MSE WALL SETTLE MENT/ RETAINING WALL, LA 19 TWIN BRIDGE S - PPC PILES, L A 67 BRIDGE - DRILLED SHAFT S. ALL THE NECESSARY DE SIGN WILL BE DONE A P S. NO TO ISSUE AS OF TODAY. A P S ALSO DRILLED AND SAMPLED ALL THE BORINGS FOR DOT D THRU THE GEOTECHNICAL RETAINER AND TE STED IN HOUSE BY A P S LABORATORY.

MEMBERS INVOLVED:

ENGINEERING

SERGIO AVILES, P.E.- PROJECT MANAGER
SAI EDDANAPUDI, M.E., P.E.-PROJECT ENGINEER
SURENDRA RAJ PATHAK, M.S., P.E.-STAFF ENGINEER

LABORATORY TESTING

SERGIO AVILES, P.E.-QA/QC
SAI EDDANAPUDI, M.E., P.E.-QA/QC
DONNA EASTERLY- LAB MANAGER
CINDY FALKS-LAB TECH

DRILLING

MELVIN VASQUEZ -DRILLER TECH
VAN GEORGE-DRILLER
ERIC BATEASTE-DRILLER
OSCAR JOHNSON-DRILLER TECH
TRENTON ANDERSON-DRILLER TECH

SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES IDIQ	
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	CMAR
X	Constructability
X	Contract Management (CM)

Firm name	**A P S Engineering and Testing, LLC**			Past Performance Evaluation Discipline(s)*	GEOTECH
Project name	**US-90 Railroad Overpass (S. East of LA-85)**			Firm responsibility (prime or sub?)	Sub
Project number	H.010155	Owner's name	SHREAD-KUYRKENDALL & ASSOCIATES, INC.		
Project location	Iberia Parish		Owner's Project Manager	Nicci D. Gill	
Owner's address, phone, email	13016 Justice Ave. Baton Rouge, LA 70816 (225) 296-1335 (225) 296-1338 (fax) ngill@skaengr.com				
Services commenced by this firm (mm/yy)	11/19	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	03/20	Cost of consultant services provided by this firm ($1,000's)		$105k	

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

GEOTECHNICAL INVESTIGATION TO PROVIDE CLIENT WITH THE NECESSARY INFORMATION FOR PLANNING AND DESIGN OF A 12 FT. X 10 FT. RCB, 412 FT. IN LENGTH. A TOTAL OF SIX (6) DEEP BORINGS WERE COMPLETED BY APS. OVER 60 ATTERBERGS AND UU WERE TESTED BY APS WITH 18 CONSOLIDATION TESTS. ALL THE NECESSARY TESTING DONE BY IN HOUSE BY A P S LABORATORY.

SIMILARITIES TO PROFESSIONAL GEOTECHNICAL SERVICES IDIQ	
X	Geotechnical Explorations (GE)
X	Geotechnical Design (GD)
X	Geotechnical Construction (GC)
X	Constructability
X	Contract Management (CM)

MEMBERS INVOLVED:

ENGINEERING

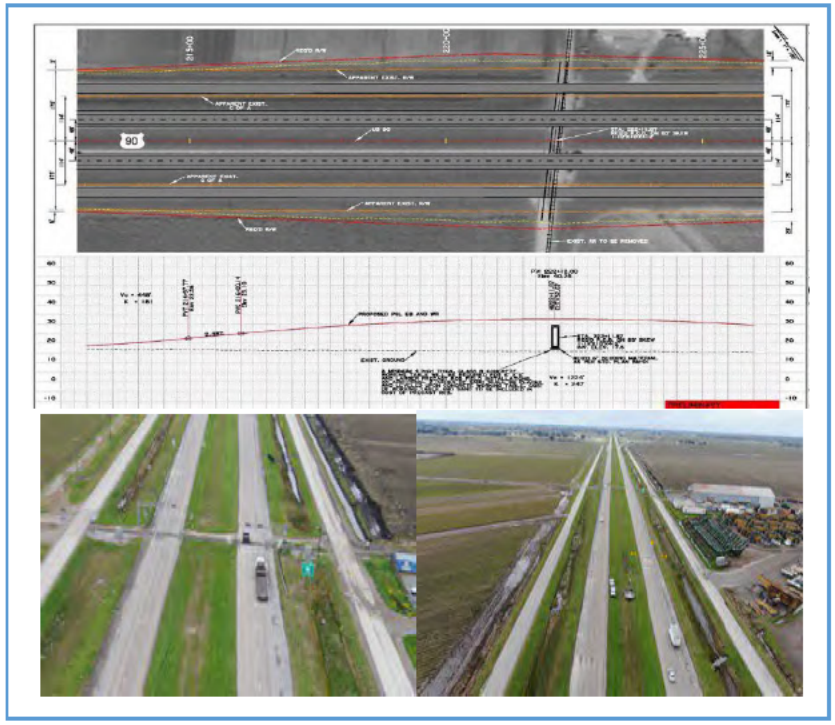
SERGIO AVILES, P.E.- PROJECT MANAGER
SAI EDDANAPUDI, M.E., P.E.-PROJECT ENGINEER
SURENDRA RAJ PATHAK, M.S., P.E.-STAFF ENGINEER

LABORATORY TESTING

SERGIO AVILES, P.E.-QA/QC
SAI EDDANAPUDI, M.E., P.E.-QA/QC
DONNA EASTERLY- LAB MANAGER
CINDY FALKS-LAB TECH

DRILLING

MELVIN VASQUEZ -DRILLER TECH
VAN GEORGE-DRILLER
ERIC BATEASTE-DRILLER
OSCAR JOHNSON-DRILLER TECH
TRENTON ANDERSON-DRILLER TECH



17. Firm Experience:

17. Firm Experience:

17. Firm Experience:

 Prime consultant name:

SECTION 18:
APPROACH & METHODOLOGY

VOLKERT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

18. Approach and Methodology:

Provide a description of how the work will be performed and provide the proposed project schedule. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. If more than four pages are included, all pages after the fourth page will not be evaluated.

Understanding the Project: Volkert engineers and staff understand the nature of an Indefinite Delivery/Indefinite Quantity (IDIQ) contract. We understand that the scope of work for this IDIQ contract is multidisciplinary and therefore requires teaming with proper subconsultants who have well established expertise in their disciplines and familiarity with LADOTD policies and procedures. We believe that the approach to any task, begins with understanding of the owner's goals and expectations, followed by establishing a competent team capable of addressing them. This IDIQ contract focuses on bridge preservation which centers around bridge design/repair/rehab and plan development, followed with construction engineering support. In addressing the need for technical expertise, we made sure not only to exceed the minimum personal requirements, and that we are equipped with team members who can deliver the most specialized tasks that could arise in a specific assignment. Specific assignments will be delivered and described in detail in Kickoff Meetings. A clear understanding of the assigned tasks is key to a successful delivery of the project, therefore meeting with the LADOTD Project Manager (PM) and when possible, coordinating a site visit is highly desirable. Visiting with the LADOTD District officials and receiving their feedback and recommendations on a project that is in their territory can be critical to a successful outcome. Understanding the PM's and other potential stakeholders' expectations and context limitations is where we will establish our goals for the project.

Subconsultant Coordination: Volkert team will provide all services outlined in the Attachment A of the LADOTD advertisement. As the prime consultant, Volkert will be responsible for the outcome of all tasks and the coordination of subconsultants based on the services requested by LADOTD under this contract. We have included specific subconsultants to allow the LADOTD Bridge Design staff the ability to request design and plan delivery, load rating, NBIS bridge inspection, sampling, instrumentation and non-destructive testing, geotechnical services, road and traffic services, surveying, and title work, and environmental and permitting services. We believe that these efforts will extend the service life of the LADOTD assets. We are prepared to comply with many of the rules, regulations or best practices which are frequently modified at the state or federal levels.

Kickoff Meeting: Items to be addressed for a productive Kickoff Meeting:

- Understand the specific tasks to allow for formulating strategy
- Is the task for a new or an existing bridge? Is it design and plan development related, and does it require inspection, material sampling or load rating?
- If it is for a new bridge or an existing bridge replacement, has a stage zero (0) Feasibility Study been conducted and available or is this part of our tasks?
- New bridge, a brief discussion on concept design, type, size, and location (TS&L), existing bridges, need As-Build plans if available and NBIS inspection report
- Is there a need for Environmental review/study and the possibility of required permits?
- Discuss road and bridge hydraulics, approach road work and pavement design, bridge drainage particularly if it is an overpass or railroad crossing
- Establish tentative milestones for review and delivery and the need for frequency of review
- Gather the required information which will aid in developing a complete scope of work and project schedule
- Establish a listing of points of contact of all the project stakeholders
- Discuss handling of traffic and possible detour options, traffic data, etc.
- Discuss the known utilities and potential for underground utilities and the process for their relocation if needed
- Discuss limits of existing Right of Way and potential alternative alignments
- Is the task urgent and should its design and plan delivery to be expedited beyond conventional milestones?
- Is there a need for an accelerated bridge construction method and what are those options?
- Is the bridge on the Historic Bridge Inventory?

Bridge Design and Plans (Fixed Bridges): Volkert continues to be ranked as one of the top consulting firms in the United States offering, road and bridge designs. The 2020 Engineering News Record ranked Volkert #95 of top 500 design firms in the United States. Volkert's employs over 1,200 civil, structural, mechanical, and electrical engineers, land surveyors, environmental scientists, right-of-way specialists, bridge inspectors, technicians, and landscape architects, therefore we believe we can address majority of the tasks for a fixed bridge design or repair/rehabilitation with our in-house personnel.

18. Approach and Methodology:

Our bridge design engineers are highly knowledgeable of AASHTO and LADOTD bridge design LRFD manuals and have designed and delivered multiple bridge projects for LADOTD and other bridge owners such as GNOEC Safety Bays, in compliance with LADOTD specifications. Our bridge designers are skilled and experienced in a wide range of bridge types, including timber bridges on rural routs, box beams, AASHTO prestressed concrete girders, LG Girders, long bridges over water, railroad crossings. We are also experienced in bridge rehabilitations and retrofits, crack, and damage repairs on various types of structures. Most recently, we designed and repaired a prestressed concrete girder bridge overpass on I-10 at Oak Harbor Boulevard which was struck by an over-height vehicle spalling two prestressed concrete girders and severing several strands. Rather than replacing the damaged portion of this bridge, through innovation and design, we were able to splice and retention the severed strands and repair the spalled girders by epoxy injecting, patching and finally wrapping them with Carbon Fiber Reinforced Polymers (CFRP). The success of this work we have been told has encouraged LADOTD to consider repair rather than replace in situations that are feasible.

Considering that this contract is an IDIQ, any type of bridge may be among the assigned tasks, our familiarity with bridge types in Louisiana therefore will be critical. Our bridge designers are familiar with the requirements for bridges across navigable waterways, including fender systems and design of bridge piers for ship impact. Our team of designers utilize various design software solutions to aid with design and plan development. Prior to use of any software, Volkert will submit to LADOTD PM a list of the required software for approval. Our team will utilize Openroads (Inroads), Openbridge (Leap Bridge, Concrete & Steel), MDX, ATCRAS, STAAD, AASHTO Bridge Rating and L-PILE to mention a few. For a typical bridge design and plans, either new bridge or replacement of an existing bridge, gathering information such as topographic survey, soil borings, traffic data, Utility locations, exiting Right of Way maps, As-Build-Plans, NBIS reports, are among the preliminary work for establishing TS&L.

Unless otherwise instructed by the LADOTD PM, Preliminary Plans will be submitted to the PM at 30%, 60%, 90% and 100%. Generally, after the 90% preliminary plans, a Plan in Hand meeting will be held under the instruction of the PM. After this meeting, we will address comments and any needed revisions and provide LADOTD with the 100% Preliminary Plans. Upon approval of the 100% Preliminary Plans, we will resume with making progress in final design and plan development. Final plans will be submitted to the PM for review unless otherwise instructed by the PM at 30%, 60%, 90%, 98% and 100% plan development stages.

Inspection Logistics: Since 2005, we have continually streamlined logistics to mobilize teams and inspection equipment to project sites. Our in-house planning allows us to optimize inspection schedules, develop maintenance-of-traffic plans, arrange special equipment rentals, ship in-house equipment, and dispatch inspection teams to conduct inspections safely and efficiently. Effective planning on the front end of a project allows our inspectors to conduct their fieldwork and complete reports in the prescribed software with ample time in our schedules to allow for detailed and systematic inspections, reporting, and quality assurance reviews. We bring historical experience to pre-planning logistics for cross-country inspections:

- What equipment is required for each structure
- Where, when, and how to ship equipment
- Reliable sources for renting specialized equipment
- Convenient lodging accommodations
- Necessary power sources – what is available vs. what to ship with equipment
- Tidal influences affecting inspection routines
- Wildlife, pedestrian, and traffic influences affecting inspection routines
- Risks posed by natural environment

Specialized Equipment: Volkert routinely utilizes heavy bridge inspection equipment, such as snoopers and man-lifts, as well as special scaffolding to access bridge structures. We will lease special equipment when necessary. Volkert has provided snooper inspection vehicles and maintenance of traffic for inspections. Our inspection staff is experienced in the operation of many different types and models of under-bridge access equipment. We are aware of the special limitations of snooper bridge inspections, including weight limits and roadway-width restrictions. In these cases, our specialty sub can perform the hands-on inspection using rope access methods or Volkert's work skiff can be deployed. This vessel has a specially designed platform with telescoping legs that can put inspectors' eye-level at 15 feet above the water. The use of this vessel can result in substantial cost savings and eliminates disruptions to the traffic on the structure.

Other specialized equipment that Volkert uses includes air quality monitors when working in confined spaces; ultrasonic thickness gauges; dye-penetrant testing for cracks in steel; conventional surveying equipment to measure settlement and movement; and underwater digital cameras. We also use thermal imaging cameras when performing deck evaluations and movable bridge inspections. Our teams can be equipped with a small camera that connects to their smart phones, or when more detail is required, we can deploy of FLIR thermal imagining camera. Updates in FAA regulations have made it practical for qualified operators to use small

18. Approach and Methodology:

Unmanned Aerial Vehicles (UAVs) for special access situations such as the inspection of HMLPs. Volkert is at the forefront of utilizing this technology for such purposes and recently completed an inspection contract with Florida's Turnpike Enterprise (FTE) using UAVs to photograph slip joints, luminaire arrays and defects on several High Mast Light Poles. We were able to eliminate the need for special access equipment which provided tangible cost savings for FTE.

Volkert has also been using thermal imagining as a tool for a variety of inspections. We recently deployed our camera to our Florida region to investigate a new bridge deck following a vehicle fire. The thermal imagining allows us to quickly ascertain if the deck has any additional areas of delamination quickly, eliminating the use of a chain drag on the center lane of a busy, urban interstate. Our bridge inspection crews also have smaller thermal imagining cameras that can be used with their phones when a higher degree of precision is not required. These are used in support of the electrical and mechanical inspections of movable bridges and tunnels. Additionally, any "hot spots" discovered during the opening and closing of a movable bridge can illustrate an area that is not moving freely and will likely be the source of visible deficiency in the future. In addition to the standard inspection equipment, our field crews are set up with mobile workstations. These stations include laptop computers that can be paired with cellular phones to create a mobile hot spot, and a portable scanner and printer. Many times, our field crews have been discussing a situation at a bridge with our office engineers while emailing photographs or a field sketch to the office. When the inspection team discovers a critical issue, they can allow use video calling from their smart phones to show our office personnel exactly what they have found. This immediate transfer of information allows our engineers to perform a structural evaluation and load rating before the inspection team leaves the bridge. In areas where cellular coverage is poor, our field teams can use one of our satellite phones to communicate to the other field team or the office.

Scour Evaluation Services: One of the many strengths of the Volkert Team has to offer LADOTD is expertise in hydraulics and hydrology. One of the leading failure modes of bridges and culverts is scour, and during every inspection, the streambed is closely examined for signs of scour. Volkert's hydrological and hydraulic capabilities include experienced multi- disciplined engineers, technicians, and inspectors who have received specialized training in investigating geomorphic and hydraulic conditions. Whether the project calls for hydraulic modeling, drainage control, scour analysis, storm surge analysis, tidal modeling, underwater investigation, or hydrological assessments, Volkert has the personnel to handle all these tasks. Through constant training, use of the latest modeling software, and development of computerized worksheets, Volkert provides cost-effective scour analyses for our clients.

Identification of/Responses to Critical Safety Issues: When a bridge is found to require load posting, Volkert will immediately contact our Principal, Aaron Immel, or our inspection Project Manager, Matt Burnett, who will contact the owner of the discovery and then follow up with written communication.

Report Preparations: Volkert will provide structural inspection reports in a digital or hard copy format to the requirements of USFWS. Volkert is experienced in providing this form of report criteria and will submit the data in a digital format that can be incorporated into their database. Volkert has been using InspectTech in Mississippi and Texas, and our technicians and engineers are quite familiar with the nuances of the software. With LADOTD guidance, our goal will be to produce reports that mirror their own.

A typical report will consist of:

- Cover Sheet with Photographs
- Structure Evaluation Summary
- Recommendations for Repairs and Estimated Costs
- Condition Ratings and Deficiency Comments
- If we find a substantial change from the previous inspection, LADOTD is notified as soon as possible.
- Load Rating Review Sheet
- Structural Inventory and Appraisal Sheets
  - GPS coordinates are checked and updated during each inspection.
  - SIA documentation is checked for accuracy.
- Elevation and Typical Section Sketches, including waterway and/or under clearances
  - Our structural CADD staff has provided accurate sketches of the typical sections of numerous bridges where there was no section on past inspections.
- Bridge Inspection Photographs
  - General photographs, as well as photographs of deficiencies and items in need of corrective action, are taken.

18. Approach and Methodology:

Field reports are produced in hand-written form and transmitted to the office for processing. After initial processing, the report is ready for quality assurance reviews.

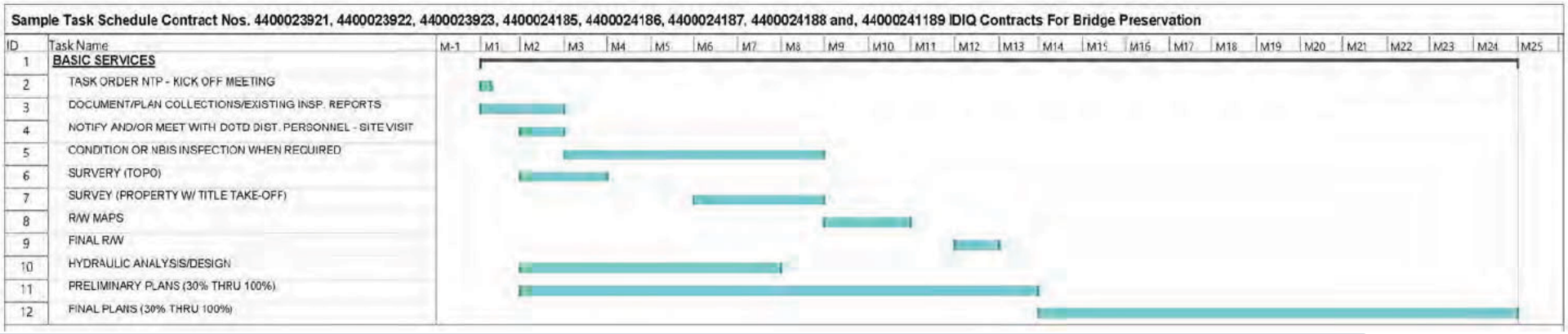
Bridge Design and Inspection (Movable) (WSP): After meeting with LADOTD and agreeing on the plan of action for a moveable structure, WSP's experienced structural, mechanical, and electrical engineers and support staff will begin the in-depth bridge inspection and evaluation with special attention to the following critical factors affecting inspection efficiency and minimizing disruptions to highway and waterway traffic:

- Coordinating with USCG and waterway stakeholders on timing and minimizing outages.
- Coordinating highway traffic control to minimize lane closures and timing of shutdowns.
- Minimizing durations of de-energizing of electrical systems
- Closely Coordinating disassembly of couplings and bearings and gear box inspections, etc. for in-depth inspections that may render the bridge inoperable for a few hours.
- Using a work boat with scaffolding to inspect the water portions of the structure below deck, particularly for swing bridges with low under clearance, is efficient and facilitates quick inspector and equipment removal for each required bridge opening.
- Although fracture critical members require a hands-on inspection, drone technology will be utilized, were feasible and approved, to supplement the inspections and minimize inspector time in the field.

The load rating calculations will begin concurrently with the inspection and will take in account all As Built, and rehabilitation construction plans and the assumed condition of the load carrying members as identified in the latest inspection reports. The load rating calculations will be updated based on the new condition assessment, and the load rating report will be finalized. WSP is experienced in completing these bridge inspections and reports within a 60-day duration and uploading the final reports and documents to LADOTD's AssetWise database. Based on inspection results (and if included in the task order) we develop a repair or rehabilitation approach for approval and proceed to produce the design documents, provide support for construction bidding, post design services and engineering support services during construction, all accounting for the same critical factors affecting construction efficiency and minimizing disruption to the traveling public.

Bridge Design and Inspection (Movable) (STV): The interest of the structural, mechanical, and electrical inspection/design implementation process of a Drawbridge is to comply with all Federal and local regulations in effect during the rehabilitation of any structure. All inspection and design services shall conform with the latest revision and updates of AASHTO LRFD for movable bridges and local standards/regulations enforced by the agent having gravitation on the project. The approach to delivering plans is to develop the details as we conventionally do and provide integration drawings using our 3D graphics BIM modeling software.

The eccentric assemblies of movable bridges must also be inspected to verify that no shifting or differential movement has occurred that might lead to a loss of concentricity of the two trunnion shaft assemblies. Span locks, particularly those on double leaf type bascule bridges, tend to experience high wear and degradation rates, particularly on the local county bridges. Gear teeth chordal thickness, backlash, and cross-mesh will be measured using gear tooth calipers. The clearances of all accessible sleeve bearing bushings with their respective shafts will be measured using feeler gages. The physical condition and operation of all gear reducers, open gears, bearings, shafts, brakes, and couplings will be examined both at rest and while the bridge is in motion. System pressures on hydraulic operated bridges will be recorded, and the condition and operation of cylinders, pumps, pump motors, solenoid valves, valves, hoses, fittings, and connections will be inspected.



SECTION 19:
WORKLOAD

- VOLKERT
- WSP
- STV
- BURGESS
- BDI
- APS
- KTA

VOLKERT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

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)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Volkert, Inc.	Road	H.003074; H.009087	Route I-10: Williams Blvd. to Veterans Blvd. & Loyola Drive to Williams Blvd. – Sub-consultant, Jefferson Parish, LA	$ 48,230.00
Volkert, Inc.	Road	H.001309.5	MacArthur Blvd. Phase II Final Plans – Sub-Consultant, Jefferson Parish, LA	$ 77,678.00 (Project on Hold)
Volkert, Inc.	Bridge	H.004113	I-12 to Bush LA 3241 (LA 435 to LA 40 / LA 41), - Sub Consultant, St. Tammany Parish, LA	$ 50,962.00
Volkert, Inc.	Bridge	H.011152.5	I-12 Widening (US 190 to LA 59) Route I-12 – Sub Consultant, St. Tammany Parish, LA	$ 22,651.00
Volkert, Inc.	Traffic	Contract No. 44-4787, H.009250	IMR I-10 Highland Road to LA 73, East Baton Rouge and Ascension Parishes, LA	$ 1,490,597.00
Volkert, Inc.	Survey	Contract No. 44-17069	Louisiana Watershed Imitative (LWI) Modeling Contract Region 3, Sub Consultant, Task Order 2	$ 102,404.00
Volkert, Inc.	Survey	Contract No. 44-017764	IDIQ Contract for Engineering and Inspection Services of State Regulated Dams with Majority of Work in Districts 04,05.08 and 58, Statewide	$32,089.00
Volkert, Inc.	Survey	H.013720.5	IDIQ Contract for Design of Safety Projects, Statewide with Majority of Work I Districts 04,05, and 58. Sub-Consultant	No Open Tasks
Volkert, Inc.	Other	Contract No. 44-17328	IDIQ Contract for Innovative Procurement Support Services, Statewide	No Open Task Orders
Volkert, Inc.	CEGI/OV	H.003370	I-220/I-20 Interchange Improvements & Barksdale AFB Access, Bossier Parish, LA	$375,230.00
Volkert, Inc.	CEGI/OV	H.004791	LA 23: Belle Chasse Bridge and Tunnel Replacement (HBI) Plaquemines Parish, LA	$7,388,134.00

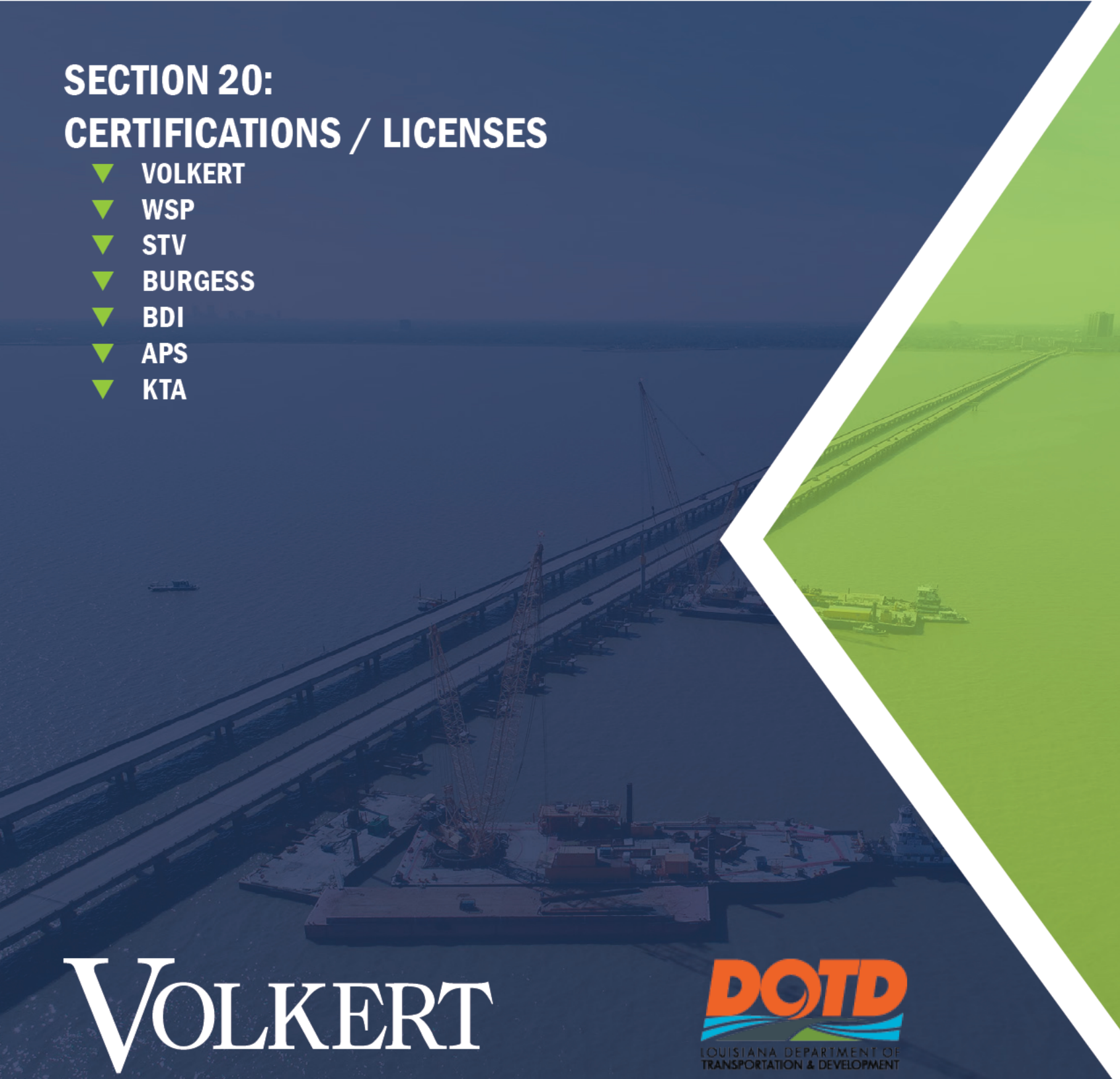
Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Volkert, Inc.	CE&I/OV	H.013897.6	College Drive Flyover Ramp. I-10/I-12 West & East Baton Rouge Parish, LA	$ 1,987,946.00
Volkert, Inc.	CE&I/OV	H.004100.6	Phase I W. of Washington Street to Essen Lane (CE&I) Phase I Segment 01. W. of Washington Street to Acadian Thruway, Route I-18. East & West Baton Rouge Parishes, LA	$ 8,908,923(E)
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, Routes US 61, LA 964, LA 19, and LA 67, East Baton Rouge Parish, LA - Sub Consultant	$461,197.00
Volkert, Inc.	CE&I/OV	Contract No. 44-19550, H.001234.6	LA 1 Port Allen Canal Bridge Replacement (Phase 1) (HBI), West Baton Rouge Parish, LA.- Sub Consultant.	$1,024,396.00
Volkert, Inc.	CE&I/OV	H.010601.6	Retainer Contract 44-13710 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 3 – I-10 Widening LA 328 to LA 347, St. Martin Parish	$43.657.00
Volkert, Inc.	CE&I/OV	H.003003.6-2	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 1 – I-10: East Jct I-49 to LA 328, Lafayette Parish	$43,750.00
Volkert, Inc.	CE&I/OV	H.002151.6	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 2 – Bayou Parc Perdue and Creek Bridges, Lafayette Parish	$143,114.00
Volkert, Inc.	CE&I/OV	H.008145.6	LA 1: Leeville to Golden Meadow, Phase 2 (CE&I), Lafourche Parish (Subconsultant to ECM)	$ 3,700,000.00

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
WSP	Bridge	H.010565.5	Elec. & Mech. Eng. Oc-Call T04	$5,001
WSP	Bridge	H.972249	Elec. & Mech. Eng. Oc-Call T05	$24,921
WSP	Bridge	H.010253.5	Elec. & Mech. Eng. Oc-Call T06	$9,888
WSP	Bridge	H.010251.5	Elec. & Mech. Eng. Oc-Call T08	$6,281
WSP	Bridge	H.010253.5	Elec. & Mech. Eng. Oc-Call T09	$85,239
WSP	Bridge	H.010253.5	Elec. & Mech. Eng. Oc-Call T010	$21,303
WSP	Bridge	H.004791	Belle Chasse Bridge & Tunnel	$357,712
WSP	Bridge	H.004791	Belle Chasse Tunnel Insppection	$26,432
WSP	Bridge	H.003931.5	LADOTD P3 Advisory Svcs On Call T01	$437,167
WSP	Bridge	H.003931.5	LADOTD P3 Advisory Svcs On Call T02	$462,286
STV	N/A	N/A	N/A	N/A
Burgess	N/A	N/A	N/A	N/A
APS	Geotech	H.013127	Retainer Contract for Geotechnical Services	$53,996.00
APS	Geotech	H.013144	Retainer Contract for Geotechnical Services	$45,457.00
KTA	Bridge	4400013321	IDIQ Contract for In-Depth Bridge Inspection Statewide (sub to HNTB) – KTA has not received any task order assignments on this contract to date.	N/A
KTA	Bridge	4400013322	IDIQ Contract for In-Depth Bridge Inspection Statewide (sub to Gresham, Smith & Partners) Task Order #4 – In-Depth Inspection of Complex Structures	$59,234
KTA	Bridge	4400020156	State Project No. H.011965.5, LA 47, IWGO Bridge Rehabilitation (sub to TRC)	$11,294
KTA	Bridge	4400021515	Contract 3 for Movable Bridges (5); State Project and F.A.P. Nos. H.011991, H.010004, H.012738, H.011974, and H.014191; Iberia and Terrebonne Parishes (sub to TRC)	TDB - Contract Pending
BDI	Bridge	H.009730.5 44 17163	IDIQ Non Destructive Evaluation of Structures via SounDAR Whiskey Bay and Pilot Channel – Task Order 10	$47,869.00
BDI	Bridge	H.014703.5 44-17163	IDIQ for Non-Destructive Evaluation of Structures Calcasieu Parish – Task Order 9	$24.50
BDI	Bridge	H.009730.5 44-17163	IDIQ I-10 for Non Destructive Evaluation of Structures Atchafalaya Floodway and I-10 over Whiskey Bay Pilot Channel Bridge decks – Task Order 8	$69,198.38

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
BDI	Bridge	H.012280.1 44-09224	IDIQ for testing of Unknown Foundations, Statewide – Task Order 3 – 1802005	0.00
BDI	Bridge	H.009730.5 44-17163	Retainer for Non Destructive Evaluation of Structures Task Order 1 General Services BDI1904004	$3,679.00
BDI	Bridge	H.009730.5 44-17163	Retainer for Non Destructive Evaluation of Structures Task Order 7 Bonnet Carre Spillway 2006002	$94,864.07
BDI	Bridge	H.009859.5 44-02791	Bonnet Carre & Bayou Ramos Monitoring System Maintenance	0.00
BDI	Bridge	H.010603.6 44-02538	Mississippi Bridge at Vicksburg GPS Monitoring – 150901	$2,933.50
BDI	Bridge	H.012485.1 44-10099	IDIQ for Bridge Load Rating Services Statewide	0.00

SECTION 20:
CERTIFICATIONS / LICENSES

- VOLKERT
- WSP
- STV
- BURGESS
- BDI
- APS
- KTA



VOLKERT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. Certifications/Licenses:

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

See attached.

Janet L. Evans, PE, MBA

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

Ms. Janet Leigh Evans

License/Certificate Type - Number	Expiration Date
PE.0021307	09/30/2022

Status: Active

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

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

Hossein Ghara, PE, MBA

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

Mr. Hossein Ghara

License/Certificate Type - Number	Expiration Date
PE.0018899	03/31/2023

Status: Active

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

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

Chris White, PE

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

Mr. Christopher David White

License/Certificate Type - Number	Expiration Date
PE.0032261	09/30/2022

Status: Active

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

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

Jacob Parker, PE

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

Mr. Jacob Andrew Parker

License/Certificate Type - Number: PE.0030596

Expiration Date: 09/30/2021

Status: Active

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

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

Ashley Beckendorf, PE

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

Ms. Ashley Nicole Beckendorf

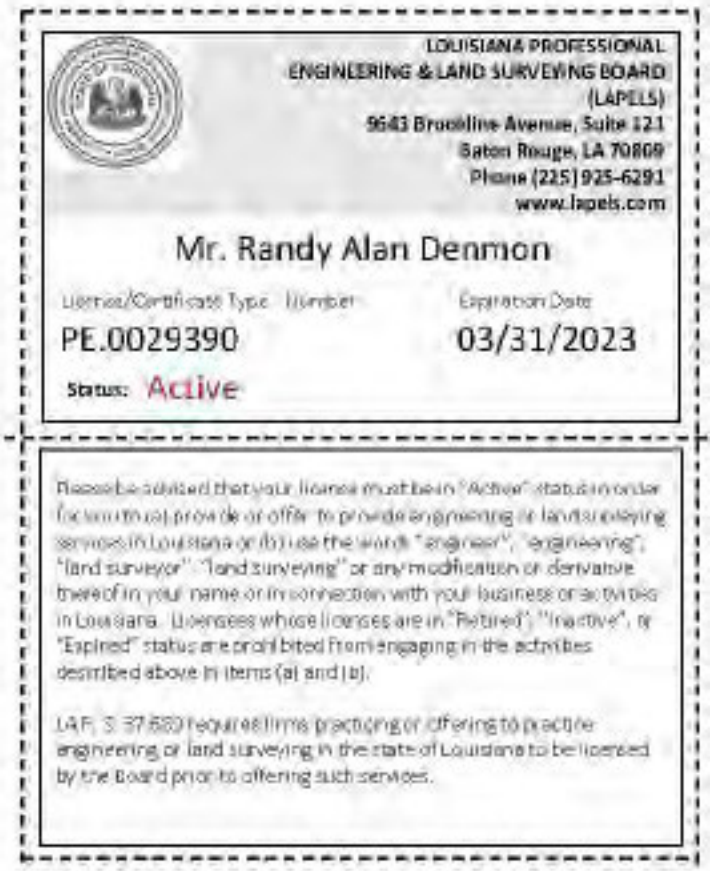
License/Certificate Type - Number	Expiration Date
PE.0037334	03/31/2023

Status: Active

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

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

Randy Denmon, PE, PLS



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

Mr. Randy Alan Denmon

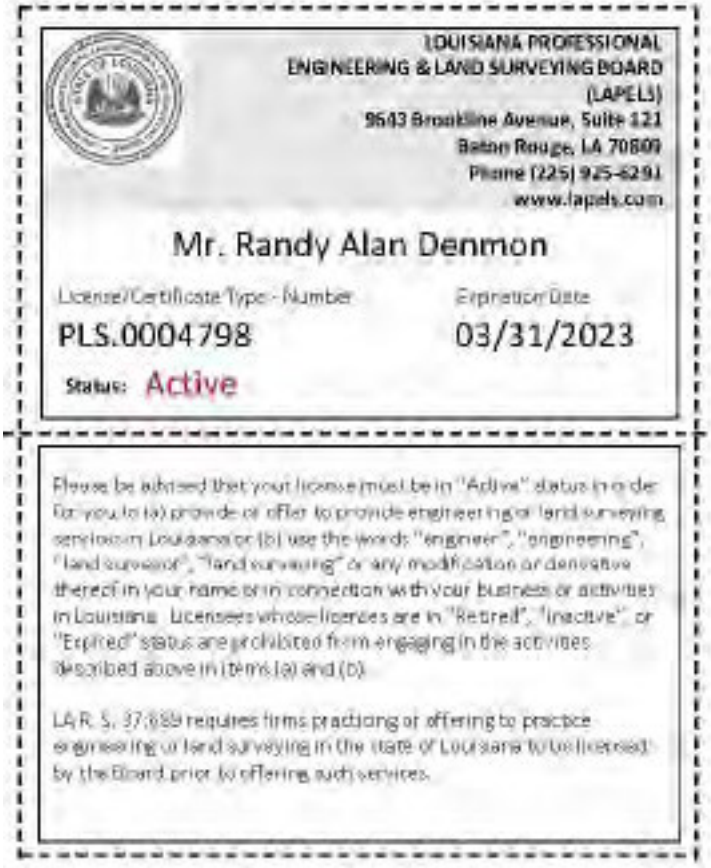
License/Certificate Type - Number: PE.0029390

Expiration Date: 03/31/2023

Status: Active

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

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



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

Mr. Randy Alan Denmon

License/Certificate Type - Number: PLS.0004798

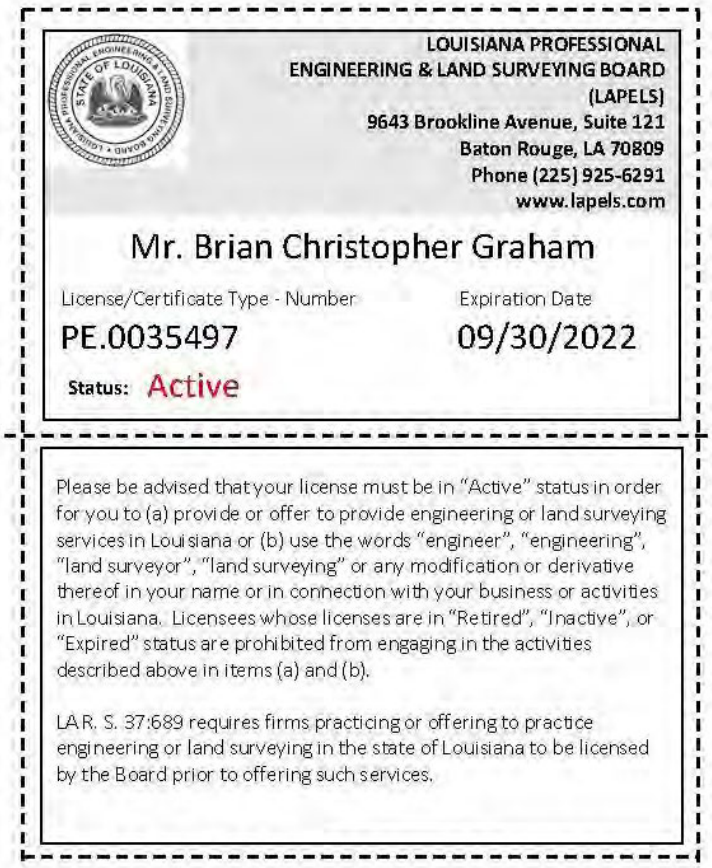
Expiration Date: 03/31/2023

Status: Active

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

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

Brian Graham, PE



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

Mr. Brian Christopher Graham

License/Certificate Type - Number
PE.0035497

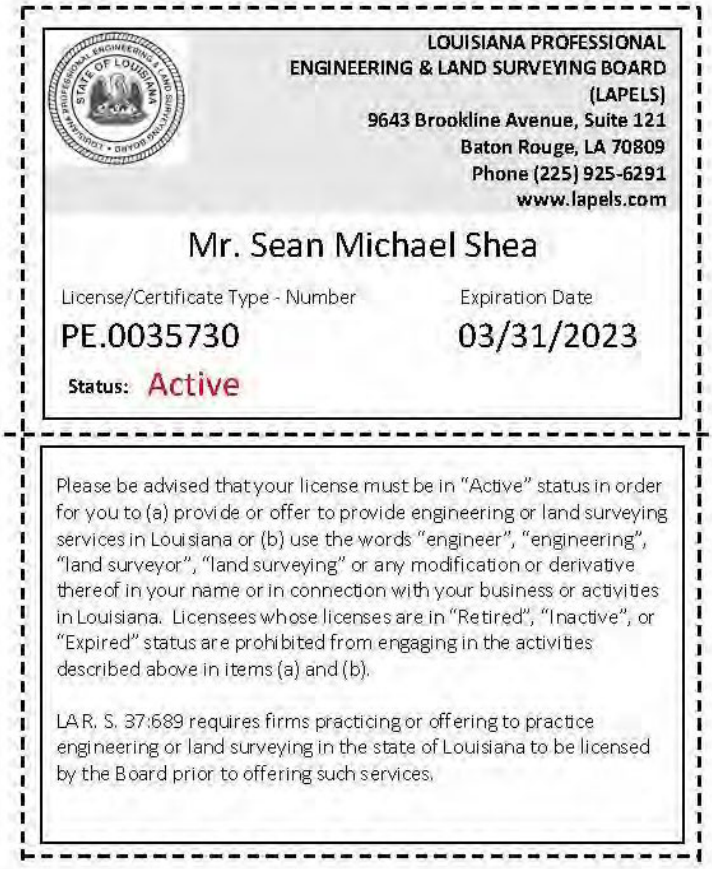
Expiration Date
09/30/2022

Status: Active

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

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

Sean Shea, PE



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

Mr. Sean Michael Shea

License/Certificate Type - Number
PE.0035730

Expiration Date
03/31/2023

Status: Active

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

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

Aaron Immel, PE, CBI, CFM

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

Mr. Aaron David Immel

Licensee/Certificate Type - Number: PE.0029153
Expiration Date: 03/31/2023
Status: ACTIVE

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

LA R.S. 37:698 requires firms practicing or offering to practice engineering or land surveying in the State of Louisiana to be licensed by the Board prior to offering such services.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Aaron Immel

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher

hosted by

Volkert, Inc.

Date: August 15-17, 2017
Location: Atlanta, GA

Hours of Instruction: 18

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Aaron Immel

has satisfactorily completed training in

Stream Stability and Scour at Highway Bridges

conducted by

Ayres Associates

Location: Orlando, Florida
Date: March 25-27, 2003

Hours of instruction: 24
Continuing Education Units: 1.8

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Aaron Immel
has participated in

Safety Inspection of In-Service Bridges
hosted by
ALABAMA DEPARTMENT OF TRANSPORTATION
Presented by
Michael Baker Corporation

Location: Tuscaloosa, Alabama
Date: September 13-24, 2004

Hours of instruction: 80

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Aaron Immel

has participated in

FHWA-NHI-130078

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Eastern Federal Lands Highway Division

Date: February 19-22, 2013 *Hours of Instruction:* 21

Location: Sterling, VA

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Aaron Immel

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

Volkert, Inc.

Date: February 1-2, 2011 *Hours of Instruction:* 12

Location: Tampa, FL

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

AARON IMMEL

has participated in

Underwater Bridge Inspection Course

hosted by

Naval Diving and Salvage Training Center

Location: Panama City, FL *Hours of instruction:* 24

Date: 5 October 2006

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

Non Entry Confined Space Rescue Training

To Comply with 29 CFR 1910.146

This is to certify that

Aaron Immel

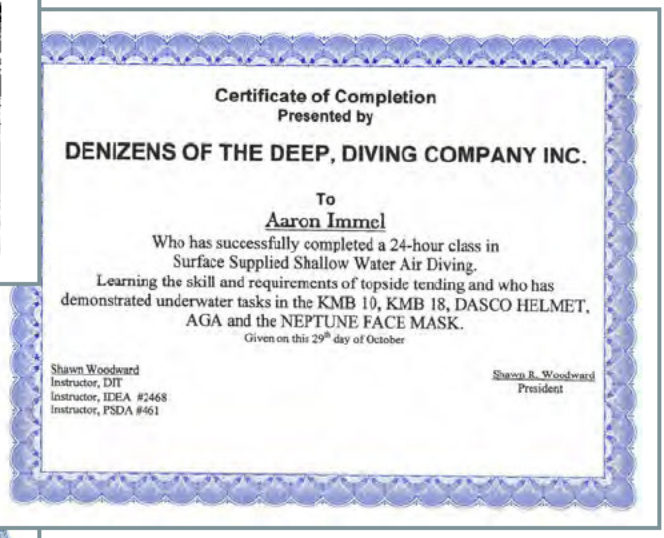
has diligently and with merit completed
the training and passed an examination

In Testimony Whereof, this certificate has been issued and accreditation number 019-60308 assigned following successful completion of this course and examination on June 3, 2008.

Safety Guidance Specialist, Inc.
Occupational Health & Safety
10945 Hwy 43
Axis, AL. 36505
251-442-0015

A. Lynn Melton

B. Diane Stewart CET, CHMM



Certificate of Completion
Presented by

DENIZENS OF THE DEEP, DIVING COMPANY INC.

To
Aaron Immel
Who has successfully completed a 24-hour class in
Surface Supplied Shallow Water Air Diving.
Learning the skill and requirements of topside tending and who has demonstrated underwater tasks in the KMB 10, KMB 18, DASCO HELMET, AGA and the NEPTUNE FACE MASK.
Given on this 29th day of October

Shawn Woodward
Instructor, DIT
Instructor, IDEA #2468
Instructor, PSDA #461

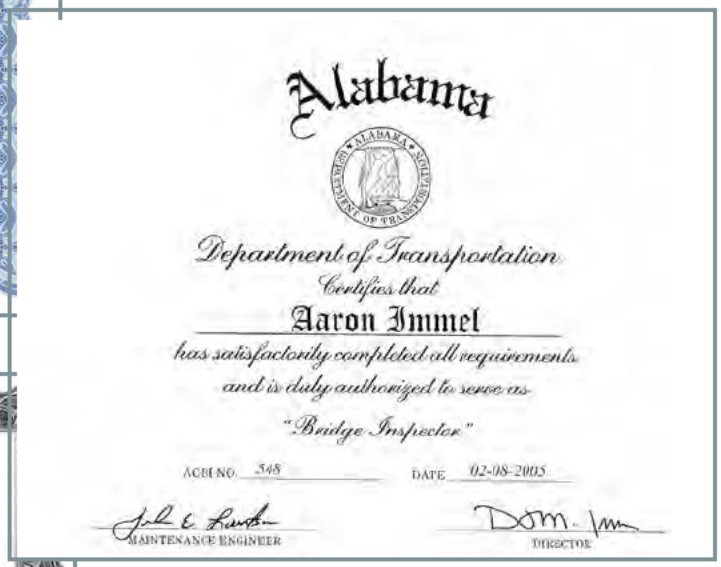
Shawn R. Woodward
President

Certified Tunnel Inspector

*Whereas **Aaron Immel** has shown competency and fitness to conduct bridge inspection as set forth in the National Tunnel Inspection Standards,*

*Therefore, the State of Florida Department of Transportation hereby issues this certificate numbered **00009** as provided by law and object to the powers or revocation vested in said Department on this **1st** day of **May 2017**, A.D.*

BRIDGE MANAGEMENT INSPECTION ENGINEER



Alabama

Department of Transportation
Certifies that
Aaron Immel
has satisfactorily completed all requirements
and is duly authorized to serve as
"Bridge Inspector"

ACBE NO. 548 DATE 02-08-2005

MAINTENANCE ENGINEER

DIRECTOR

ASSOCIATION OF STATE
FLOODPLAIN MANAGERS, INC.
CERTIFICATION BOARD OF REGENTS

HEREBY CERTIFIES THAT PURSUANT TO THE PROVISIONS OF THE CHARTER FOR THE CERTIFIED FLOODPLAIN MANAGER PROGRAM

Aaron D. Immel, CFM

IS DULY REGISTERED AS AN

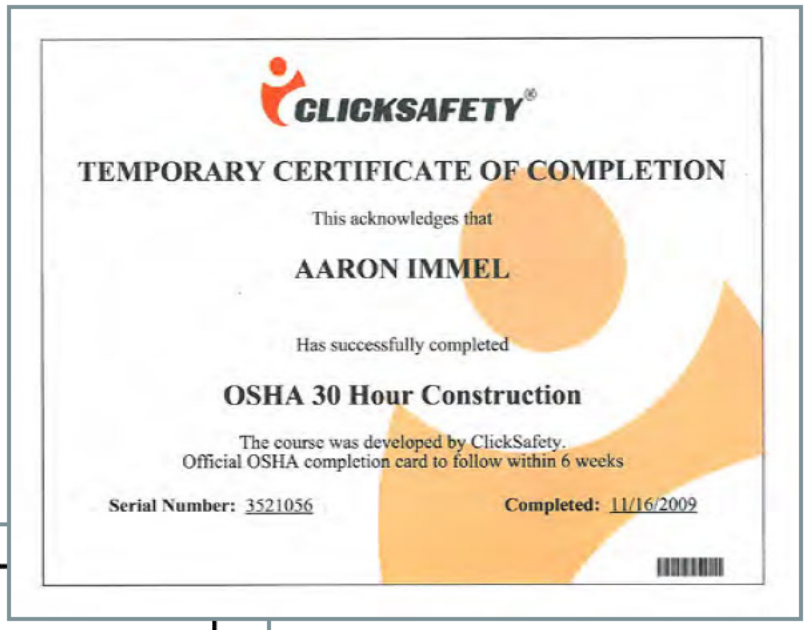
ASFPM CERTIFIED FLOODPLAIN MANAGER

IN TESTIMONY WHEREOF THIS CERTIFICATE HAS BEEN ISSUED BY THE AUTHORITY OF THE CERTIFICATION BOARD OF REGENTS, CERTIFICATE NO. US-09-03 165, ISSUED 8/10/2009. THIS CERTIFICATE SHALL EXPIRE 1/31/2015, UNLESS RENEWED ACCORDING TO THE RULES OF THE BOARD.

CERTIFICATION BOARD OF REGENTS
PRESIDENT, Diane L. Calhoun, CFM

ASSOCIATION OF STATE FLOODPLAIN MANAGERS
EXECUTIVE DIRECTOR, LARRY A. LARSON

ASFPM CFM CERTIFIED



CLICKSAFETY®

TEMPORARY CERTIFICATE OF COMPLETION

This acknowledges that

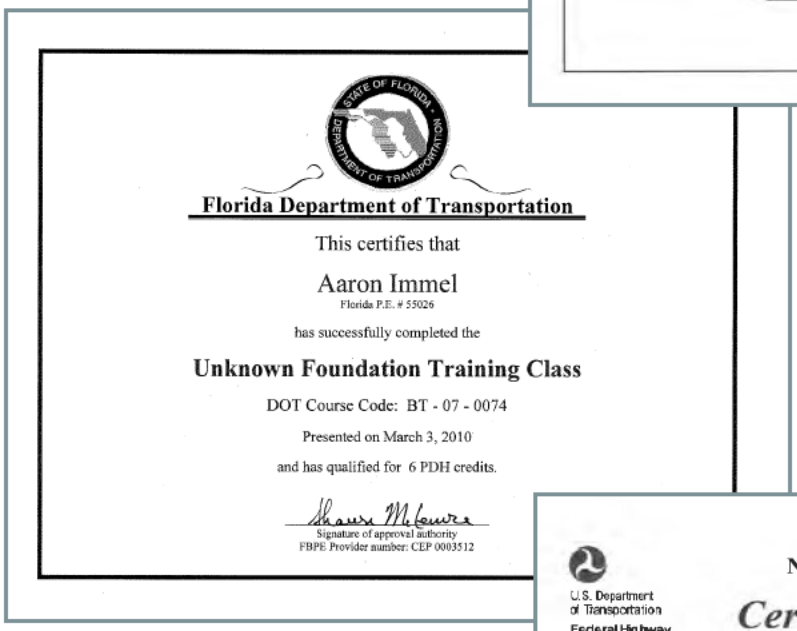
AARON IMMEL

Has successfully completed

OSHA 30 Hour Construction

The course was developed by ClickSafety.
Official OSHA completion card to follow within 6 weeks

Serial Number: 3521056 **Completed:** 11/16/2009



Florida Department of Transportation

This certifies that

Aaron Immel
Florida P.E. # 55026

has successfully completed the

Unknown Foundation Training Class

DOT Course Code: BT - 07 - 0074

Presented on March 3, 2010

and has qualified for 6 PDH credits.

Signature of approval authority
FBPE Provider number: CEP 0003512

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Aaron Immel

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Whitman, Requardt & Associates, LLP

Date: May 4-6, 2021
Location: Virtual Delivery, MD

Hours of Instruction: 18

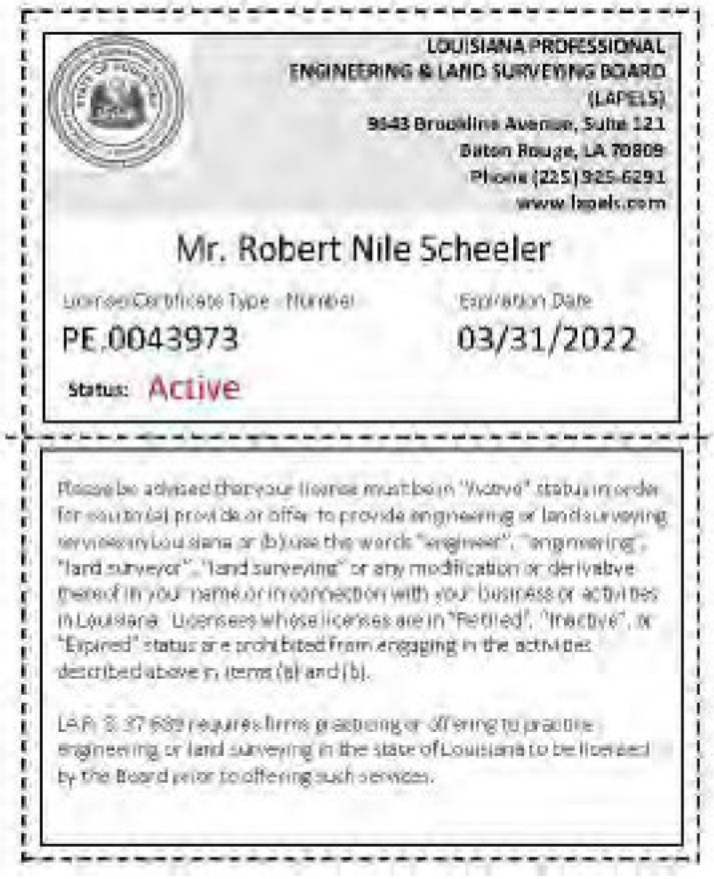
Instructor

Instructor

Debra Rizzieri
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Robert Scheeler, PE, CBI



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

Mr. Robert Nile Scheeler

License/Certificate Type - Number: PE.0043973

Expiration Date: 03/31/2022

Status: Active

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

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U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Robert Scheeler

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Volkert, Inc.

Date: *January 25-27, 2022*

Location: *Tampa, FL*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Robert Scheeler

has participated in

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

hosted by
Office of State Aid Road Construction

Date: *November 9-20, 2009*
Location: *Hattiesburg, Mississippi*

Hours of Instruction: *60*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Robert Scheeler

has participated in

FHWA-NHI #130053 Bridge Inspection Refresher Training

hosted by
Mississippi Department of Transportation

Date: *August 25-27, 2015*
Location: *Jackson, MS*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Robert Scheeler

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

Volkert, Inc.

Date: *January 23-27, 2017*
Location: *Mobile, AL*

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Robert Scheeler

has participated in

NHI Course No FHWA-NHI-135086

Stream Stability Factors and Concepts (Prerequisite) WEB-BASED

hosted by

National Highway Institute

Location: *Web-Based Course*
Date: *8/16/2010*

Hours of Instruction: *1 hours*

Richard J. Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

ROBERT SCHEELER

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Ayres Associates

Date: *April 18-21, 2017*
Location: *Tampa, FL*

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Robert Scheeler

has participated in

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

hosted by
Office of State Aid Road Construction

Date: *November 9-20, 2009*
Location: *Hattiesburg, Mississippi*

Hours of Instruction: *60*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Robert Scheeler

has participated in

Stream Stability and Scour at Bridges for Bridge Inspectors

hosted by

Mississippi Department of Transportation

Date: *October 14, 2010* ***Hours of Instruction:*** 6 Hours

Location: *Cav Center Canton Mississippi*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Robert Scheeler

has participated in

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

hosted by

Mississippi Department of Transportation

Date: *May 12-15, 2009*
Location: *CAV Center Canton, MS*

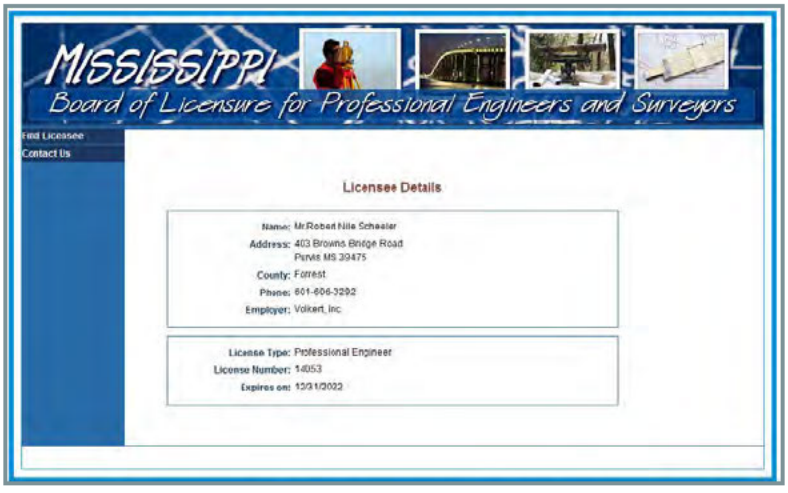
Hours of Instruction: *8 hours each day*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute



Matt Burnett, PE, CBI

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

Mr. Matthew David Burnett

License/Certificate Type - Number: PE.0045464

Expiration Date: 09/30/2023

Status: Active

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

LA R.S. 37:698 requires firms practicing or offering to practice engineering or land surveying in the State of Louisiana to be licensed by the Board prior to offering such services.

National Highway Institute

Certificate of Training

Matthew Burnett

has participated in

FHWA-NHI-130078

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Alabama Department of Transportation

Date: July 22-25, 2014
Location: Guntersville, AL

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

Matt Burnett

has participated in

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

hosted by

Alabama Department of Transportation

Date: September 20 – October 1, 2010
Location: Mobile, Alabama

Hours of Instruction: 60

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Matthew Burnett

has participated in

FHWA-NHI-130092

Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures

hosted by

South Carolina Department of Transportation

Date: August 21-24, 2012
Location: Columbia, SC

Hours of Instruction: 26.0

Instructor

Instructor

SCDOT – Training Resource Manager

Richard Barnaby, Director
National Highway Institute

National Highway Institu

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Matthew Burnett

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

Volkert, Inc.

Date: *January 23-27, 2017*
Location: *Mobile, AL*

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Dir
National Highway

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Matthew D. Burnett

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

National Highway Institute

Date: *February 10-13, 2014*
Location: *New Orleans, LA*

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

Certified Bridge Inspector

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

Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered **00511** as provided by law and object to the powers or revocation vested in said Department on this **22nd** day of **October 2012,** A.D.

BRIDGE MANAGEMENT INSPECTION ENGINEER

STATE STRUCTURES MAINTENANCE ENGINEER

Association of Diving Contractors International

Cert. # 11004

Expires 07/27/2016

ADC INTERNATIONAL

ENTRY LEVEL TENDER/DIVER

MATTHEW D. BURNETT I.D. 4165

Commercial Diver Certification Card

You have completed the Oxygen First Aid for Scuba Diving Injuries Course

DAN

Oxygen First Aid for Scuba Diving Injuries

MATTHEW BURNETT
Provider name

01-21-05
Date (retraining is recommended every two years)

Provider Signature

DAN

Oxygen First Aid for Scuba Diving Injuries

Matthew David Burnett

Has fulfilled all of the educational and practical requirements for providing emergency oxygen first aid in the event of a diving emergency and is recognized as a DAN Oxygen Provider.

We, the undersigned, on the 21st day of January 20 05 endorse this certificate to be current valid. Retraining is recommended every two years (24 months).

Dan Orr
Executive Vice President and COO
Divers Alert Network

Tom Andersen
DAN Instructor
Instructor Number 10762

Certificate of Completion

This certifies that

Matt Burnett

has successfully completed

FHWA LRFR Implementation Webinar Series Topic No. 10:
Load Rating of Steel Truss Bridges (2)
2.5 Hours of Instruction

held by Office of Bridges and Structures and the LRFR Implementation Working Group of Federal Highway Administration on December 17, 2013.

12/23/2013
Signature, Date

Certificate of Completion

This certifies that

Matthew Burnett

has attended and successfully completed the Florida DOT Approved Course

Advanced Maintenance of Traffic

PE License #: 15365
Provider #: 0005345
Course Hours: 16.75

Conducted at Panama City, FL on the 1 day of October 2013

John Swift
Instructor

David Page
Program Coordinator

T2 CTT

Expiration Date: 10/3/2017

National Highway Institute
Training Solutions for Transportation Excellence

Participant Training History

Issued by National Highway Institute

LAST NAME: Burnett PARTICIPANT ID

TELEPHONE:

Session ID	Course#	Course Title	Start Date	End Date	Location	CEU
20100562	130055	Safety Inspection of In-Service Bridges Score: Pass	09/20/2010	10/01/2010	AL	6.0
20120534	130092	Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures Score: Pass	08/21/2012	08/24/2012	SC	2.4
20140705	130078	Fracture Critical Inspection Techniques for Steel Bridges Score: Pass	07/22/2014	07/25/2014	AL	2.5
20140639	130091	Underwater Bridge Inspection Score: Pass	02/10/2014	02/13/2014	LA	2.1
20160133	130053	Bridge Inspection Refresher Training Score: Pass	11/17/2015	11/19/2015	VA	1.8

Valerie Briggs, Director
National Highway Institute

ACCREDITED IACET PROVIDER

One Continuing Education Unit (CEU) is ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction and qualified instruction.

Britt Bumpers, PE, CBI

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

Mr. Britt Shane Bumpers

License/Certificate Type - Number
PE.0030046

Expiration Date
09/30/2022

Status: Active

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

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Britt Bumpers

has participated in

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

hosted by

Alabama Department of Transportation

Date: *August 22-September 02, 2016* ***Hours of Instruction:*** 67
Location: *Birmingham, AL*

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Britt Bumpers

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

Date: *January 23-27, 2017*
Location: *Mobile, AL*

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Britt Bumpers

has participated in

NHI Course No FHWA-NHI-130101A

Prerequisite Assessment for Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Location: *Web-Based Course*
Hours of Instruction: *1 hours*
Date: *8/12/2016*

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Britt Bumpers

has participated in

NHI Course No. FHWA-NHI-130101

Introduction to Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Location: *Web-Based Course*
Hours of Instruction: *14 hours*
Date: *8/12/2016*

Valerie Briggs, Director
National Highway Institute

Stephen Dossett, PE, CBI

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

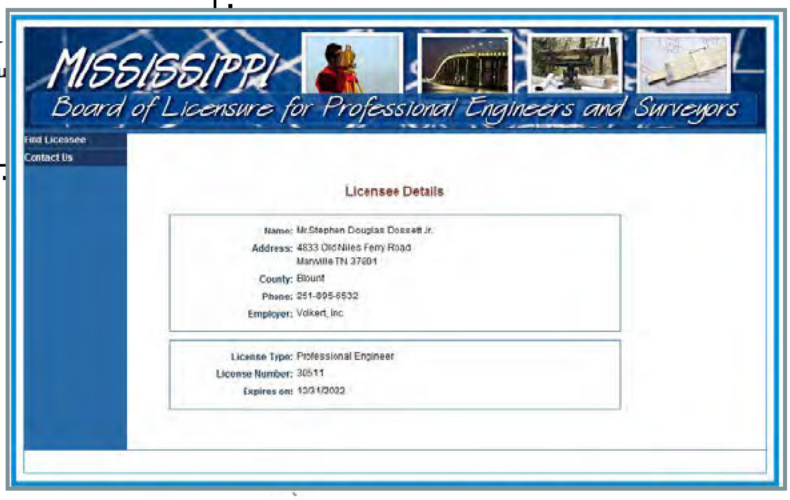
Mr. Stephen Douglas Dossett Jr.

License/Certificate Type - Number	Expiration Date
PE.0038365	03/31/2023

Status: Active

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

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



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Stephen Dossett

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Volkert, Inc.

Date: *January 25-27, 2022*
Location: *Tampa, FL*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Certificate of Completion

This certifies that

Stephen Dossett

has successfully completed

FHWA LRFR Implementation Webinar Series Topic No. 10:
Load Rating of Steel Truss Bridges (2)
2.5 Hours of Instruction

held by Office of Bridges and Structures and the LRFR Implementation Working Group of Federal Highway Administration on December 17, 2013.

12/23/2013
Signature, Date

Stephen Dossett
Has completed the course requirements for the rating of:
Diver #: 604903
Date: 2014-09-21
SDI Open Water Scuba Diver
Facility: Gulf Coast Divers
Mobile Alabama United States
Inst: Robert Cox Member #:1309
Asst: Lawren McCaghren Member # 1297
RSTC Member | EN/ISO #9001 Certified | www.tdisdi.com

STEPHEN D. DOSSETT
Diver No. 15/60/W8746
BirthDate 31-Jan-1985
CertDate 31-May-2015
Instr.No. OWSI-327959
KURTIS J. FREELAND
2032
GULF COAST DIVE PROS
PENSACOLA, FL
866 -DIVEPRO
This diver has satisfactorily met the standards for this certification level as set forth by PADI
www.padi.com

Stephen Dossett
Qualified in the use of 22% to 40% nitrox to a maximum depth of 130 fsw/40 msw.
Diver #: 619278
Date: 2016-01-06
Nitrox Diver
Facility: Gulf Coast Divers
Mobile, Alabama United States
Inst: Lawren McCaghren Member # 1297
Asst: Lewis Phillips Member # 1309
EN/ISO #9001 Certified | www.tdisdi.com

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Stephen Dossett

has participated in

FHWA-NHI-130078

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Alabama Department of Transportation

Date: *July 22-25, 2014*
Location: *Guntersville, AL*

Hours of Instruction: 21

Instructor

Instructor

Jerri K. Haag
Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Stephen Dossett

has participated in

FHWA-NHI-130091A Underwater Bridge Repair, Rehabilitation, And Countermeasures Course

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Date: January 28-29, 2010

Location: Mobile, Alabama

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Stephen D. Dossett, Jr.

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Date: January 25-27, 2010

Location: Mobile, Alabama

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

vay Institute

Certificate of Completion

NATIONAL HIGHWAY INSTITUTE

Training Solutions for Transportation Excellence

Stephen Dossett

has participated in

NHI Course No. 130055

Safety Inspection of In-Service Bridges

hosted by

National Highway Institute

Location: *Montgomery, Al*

Date: *August 3-14, 2009*

Hours of Instruction: *72*

Richard J. Barnaby, Director
National Highway Institute

Todd Powell, CBI

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute
Certificate of Training
Todd Powell

has satisfactorily completed training in

Safety Inspection of In-Service Bridges

conducted by

Michael Baker Jr., Inc.

Location: Jacksonville Florida *Hours of instruction:* 80

Date: April 5-16, 1999 *Continuing Education Units:* 6.0

Instructor Alexander Cole, P.E.

Director, National Highway Institute

Coordinator Richard I. Kerr, P.E.

Federal Highway Administrator

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute
Certificate of Training

nhi national highway institute

Todd Powell

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: October 27-30, 2020 *Hours of Instruction:* 18

Location: Virtual Delivery, MS

Digitally signed by Calein A. MacDougall, P.E. Date: 2020.10.30 18:30:46 -04'00'

Instructor

Digitally signed by Randall Leonard, P.E. Date: 2020.10.30 12:51:21 -05'00'

Randall Leonard, P.E.

Instructor

Marie Allbritton

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

National Highway Institute

Certificate of Training

TODD POWELL

has participated in

Underwater Bridge Inspection Course

hosted by

Naval Diving and Salvage Training Center

Location: Panama, City *Hours of instruction:* 24

Date: 5 October 2006

Instructor

Coordinator

Director, National Highway Institute
Federal Highway Administration

Director, Office of Professional Development
Federal Highway Administration

U.S. Department of Transportation
Federal Highway Administration

NHI

National Highway Institute

Certificate of Training

Todd Powell

has satisfactorily completed training in

Fracture Critical Inspection Techniques for Steel Bridges

conducted by

Michael Baker Jr., Inc.

Location: Tallahassee Florida *Hours of instruction:* 28

Date: May 13-16, 2002 *Continuing Education Units:* 2.1

Instructor William Amrhein, P.E. and Tom Ryan, P.E.

Coordinator Richard I. Kerr, P.E.

Director, National Highway Institute
Federal Highway Administration

Director, Office of Professional Development
Federal Highway Administration

ALABAMA DEPARTMENT OF TRANSPORTATION

THIS IS TO CERTIFY THAT

JEFFREY TODD POWELL

HAS SATISFACTORILY COMPLETED ALL REQUIREMENTS AND IS DULY AUTHORIZED TO SERVE AS BRIDGE INSPECTOR

ACBI NO. 629 DATE 04-20-2007

DIRECTOR

Alabama

Department of Transportation

Certifies that

Jeffrey Todd Powell

has satisfactorily completed all requirements and is duly authorized to serve as

"Bridge Inspector"

ACBI NO. 629 DATE 04-20-2007

MAINTENANCE ENGINEER

DIRECTOR

Certified Bridge Inspector

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

Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered **00377** as provided by law and object to the powers of revocation vested in said Department on this **18th** day of **October 2001**, A.D.

BRIDGE MANAGEMENT INSPECTION ENGINEER

ENGINEER OF STRUCTURE MAINTENANCE

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Jeffrey Powell

has participated in

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

hosted by

Volkert, Inc.

Date: *February 1-2, 2011*
Location: *Tampa, FL*

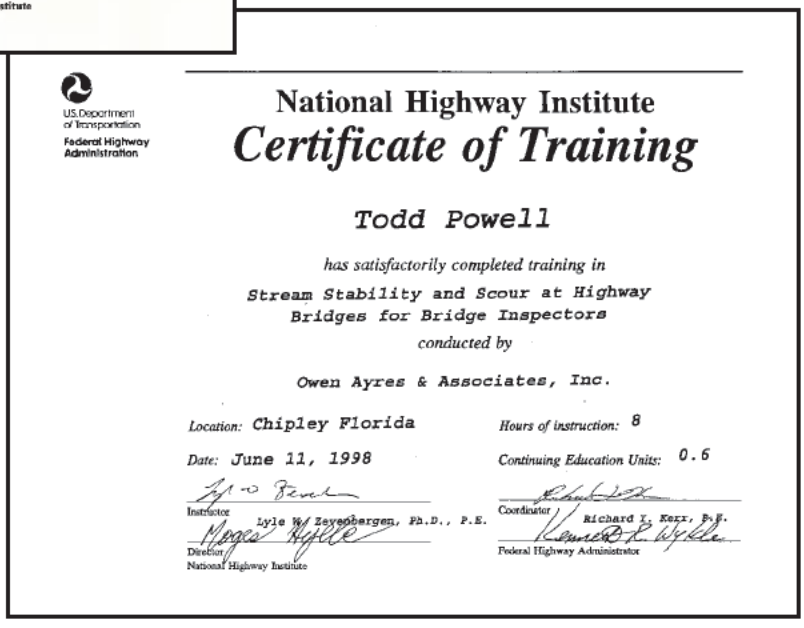
Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute



U.S.Department of Transportation
Federal Highway Administration

National Highway Institute
Certificate of Training

Todd Powell

has satisfactorily completed training in

Stream Stability and Scour at Highway Bridges for Bridge Inspectors

conducted by

Owen Ayres & Associates, Inc.

Location: Chipley Florida
Date: June 11, 1998

Hours of instruction: 8
Continuing Education Units: 0.6

Instructor
Lyle W. Zevenbergen, Ph.D., P.E.

Director
National Highway Institute

Coordinator
Richard L. Kerr, P.E.

Federal Highway Administrator

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Todd Powell

has satisfactorily completed training in

Bridge Management - Inspection Session

conducted by

Michael Baker Jr., Inc.

Location: Chipley, Florida

Date: October 6, 1998

Hours of instruction: 8

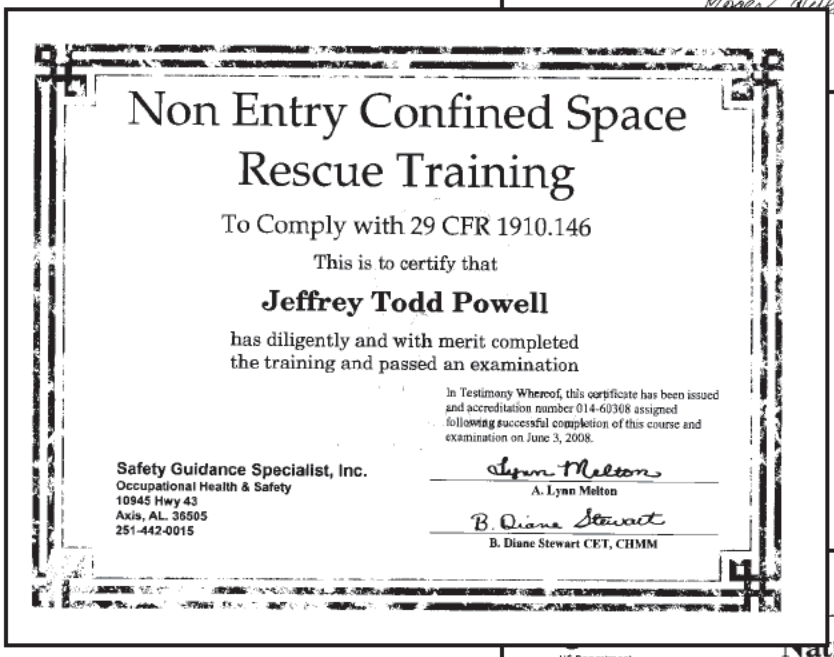
Continuing Education Units: 0.6

Instructor: Alexander Cole, P.E.

Director, National Highway Institute

Coordinator: Richard I. Kerr, P.E.

Federal Highway Administrator



Non Entry Confined Space Rescue Training

To Comply with 29 CFR 1910.146

This is to certify that

Jeffrey Todd Powell

has diligently and with merit completed the training and passed an examination

In Testimony Whereof, this certificate has been issued and accreditation number 014-60308 assigned following successful completion of this course and examination on June 3, 2008.

Safety Guidance Specialist, Inc.
Occupational Health & Safety
10945 Hwy 43
Axis, AL. 36505
251-442-0015

A. Lynn Melton

B. Diane Stewart CET, CHMM

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Todd Powell

has satisfactorily completed training in

Engineering Concepts for Bridge Inspectors

conducted by
Michael Baker., Inc.

Location: Jacksonville Florida

Date: February 8-12, 1999

Hours of instruction: 40

Continuing Education Units: 3.0

Instructor: Alexander Cole, P.E.

Director, National Highway Institute

Coordinator: Richard I. Kerr, P.E.

Federal Highway Administrator

CLICKSAFETY

TEMPORARY CERTIFICATE OF COMPLETION

This acknowledges that

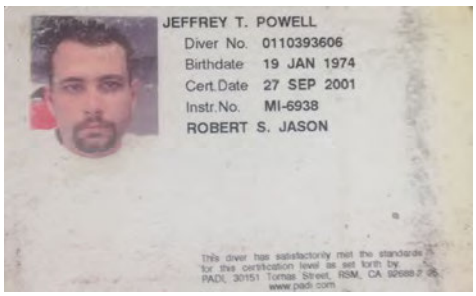
JEFFREY POWELL

Has successfully completed

OSHA 10 Hour Construction

The course was developed by ClickSafety.
Official OSHA completion card to follow within 6 weeks

Serial Number: 3592269 **Completed:** 12/30/2009



DAN

Oxygen First Aid for Scuba Diving Injuries

Todd Powell

Has fulfilled all of the educational and practical requirements for providing oxygen first aid and demonstrated skill and confidence as a **DAN Oxygen Provider.**

We, the undersigned, on the 23rd day of September 2003 endorse this certificate to be current and valid. Retraining is recommended every two years.

Bill Clendenen
Director of Training
Divers Alert Network

Dick Geyer

DAN Oxygen Instructor
Oxygen Instructor Number 572

Congratulations!
You've completed the course.
Now you're an official DAN Bubble Buster!

DAN

Oxygen First Aid for Scuba Diving Injuries
Todd Powell
09/23/03

FLORIDA KEYS COMMUNITY COLLEGE

5901 College Road Key West FL 33040

Diving Safety Program

Certifies that

Todd Powell

has successfully completed a course of instruction in

WORK DIVING SAFETY

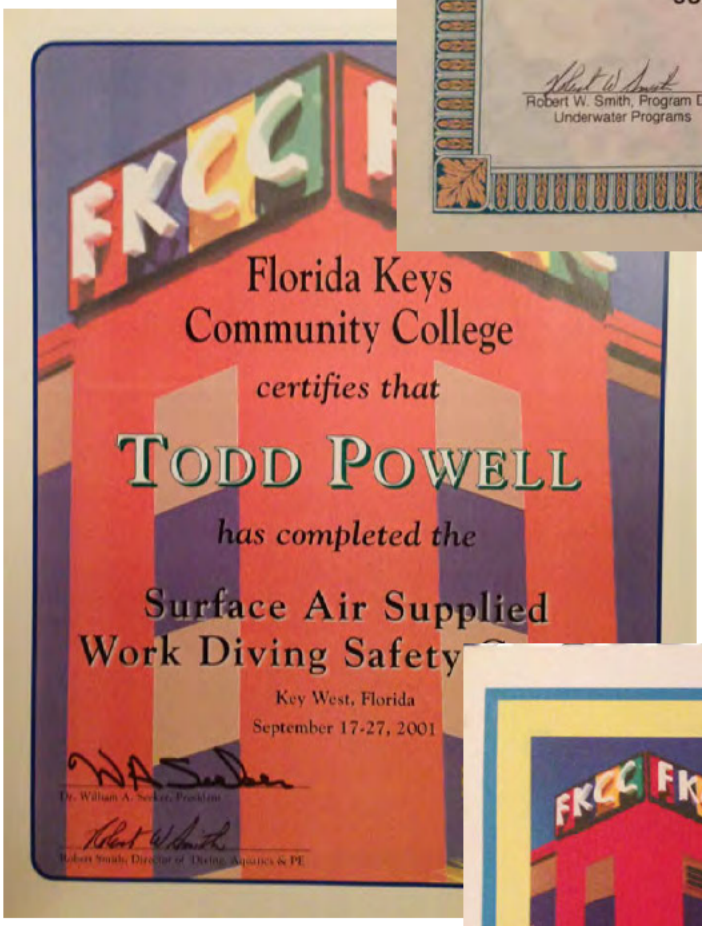
including

SURFACE AIR SUPPLIED DIVING

September 13 thru September 24, 1999

Robert W. Smith, Program Director
Underwater Programs

Mitchell A. Grabois, Dean of Instruction
Florida Keys Community College



Florida Keys
Community College

certifies that

TODD POWELL

has completed the

Surface Air Supplied
Work Diving Safety

Key West, Florida
September 17-27, 2001

Dr. William A. Seeker, President

Robert Smith, Director of Diving, Aquatics & PE

FKCC
FLORIDA KEYS COMMUNITY COLLEGE

Florida Keys Community College
CERTIFIES THAT

Todd Powell

HAS COMPLETED THE

SURFACE AIR SUPPLIED
DIVING SAFETY REFRESHER

Key West, FL

September 15-25, 2003

Dr. William A. Seeker
FKCC President, Key West, FL

Robert W. Smith
FKCC Dive Program Director, Key West, FL

Paul Swann, CBI

U.S. Department Of Transportation
Federal Highway Administration

NHI NATIONAL HIGHWAY INSTITUTE

National Highway Institute

Certificate of Training

Paul Swann

has participated in

Safety Inspection of In-Service Bridges

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Location: Montgomery, Alabama ***Hours of instruction: 72***

Date: October 16-27, 2006

Instructor

Coordinator

hway Institute
inistration

Director, Office of Professional Development
Federal Highway Administration

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Paul C. Swann

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date. October 27-30, 2020 *Hours of Instruction:* 18

Location: Virtual Delivery, MS

Digitally signed by Calvin A. MacDougall, P.E. Date: 2020.10.30 18:20:29 -04'00'

Instructor

Digitally signed by Randall Leonard, P.E. Date: 2020.10.30 12:40:40 -05'00'

Randall Leonard, P.E.

Instructor

Marie Allbritton

Local Coordinator

Thomas Harman

Thomas Harman, Director

National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Paul Swann

has participated in

FHWA-NHI-130078

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Alabama Department of Transportation

Date: *July 22-25, 2014* ***Hours of Instruction:*** 21

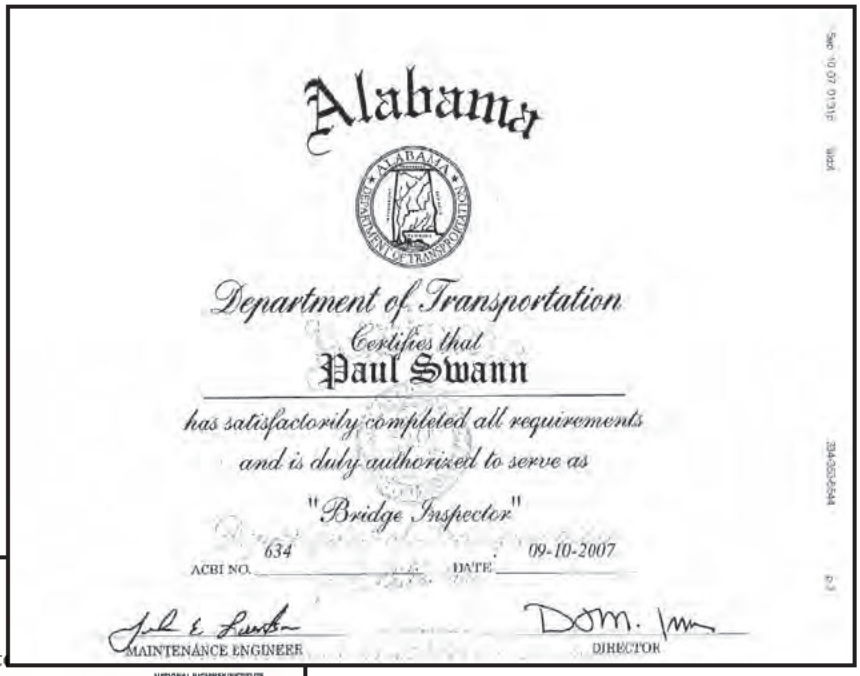
Location: *Guntersville, AL*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute



Alabama

Department of Transportation

Certifies that

Paul Swann

has satisfactorily completed all requirements and is duly authorized to serve as

"Bridge Inspector"

ACBI NO. 634 DATE 09-10-2007

MAINTENANCE ENGINEER

DIRECTOR

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Paul Swann

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

Volkert, Inc.

Date: February 1-2, 2011

Location: Tampa, FL

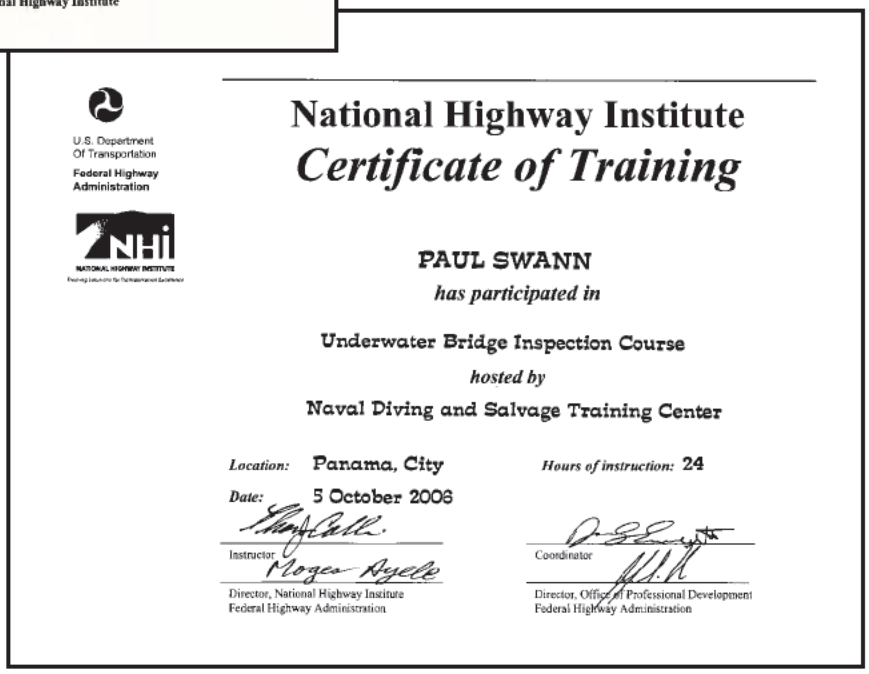
Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute



U.S. Department Of Transportation
Federal Highway Administration

NHI
NATIONAL HIGHWAY INSTITUTE

National Highway Institute

Certificate of Training

PAUL SWANN

has participated in

Underwater Bridge Inspection Course

hosted by

Naval Diving and Salvage Training Center

Location: Panama, City

Date: 5 October 2006

Hours of instruction: 24

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

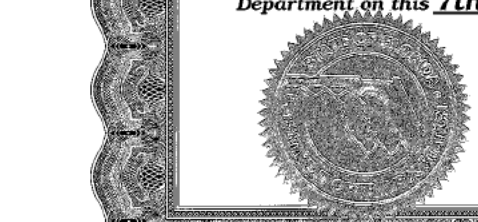
Certified Bridge Inspector

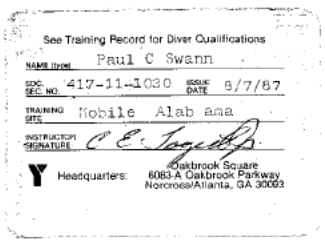
Whereas ***Paul Swann*** *has shown competency and fitness to conduct bridge inspection as set forth in the National Bridge Inspection Standards and Florida Statute 335.074 Bridge Inspection Standards,*

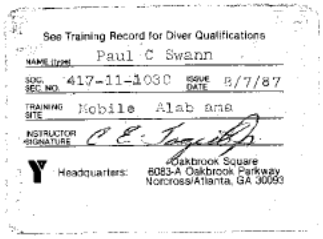
Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered ***00440*** *as provided by law and object to the powers or revocation vested in said Department on this* ***7th*** *day of* ***May 2007,*** A.D.

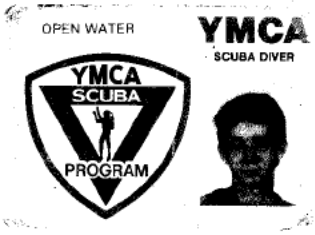
Richard A. Kerr
BRIDGE MANAGEMENT INSEPCTION ENGINEER

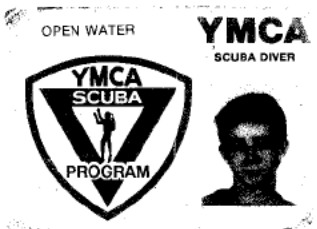
Jeffrey A. Poulotte
STATE STRUCTURES MAINTENANCE ENGINEER

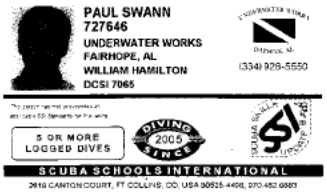












Certificate of Completion
Presented by

DENIZENS OF THE DEEP, DIVING COMPANY INC.

To

Paul Swann

Who has successfully completed a 24-hour class in
Surface Supplied Shallow Water Air Diving.
Learning the skill and requirements of topside tending and who has demonstrated underwater tasks in the KMB 10, KMB 18, DASCO HELMET, AGA and the NEPTUNE FACE MASK.

Given on this 29th day of October

Shawn Woodward
Instructor, DIT
Instructor, IDEA #2468
Instructor, PSDA #461

Shawn R. Woodward
President

This certifies that

Elliott Coon

Has successfully completed

National Bridge Element Training

DOT Course PE-07-0003
FBPE Course 0009423

by

Florida Department of Transportation

Presented October 7-8, 2014
Hosted by Volkert, Inc.
In Tampa, Florida
And has Qualified for 14 PDH Credits

John Clark, P.E

Richard I. Kerr, P.E

COLLEGE OF OCEANEERING

WORLD PORT LOS ANGELES

Technical Certificate

This is to certify that

Elliott Coon

has successfully completed the educational curriculum, maintained the required attendance, and demonstrated a technical proficiency to be qualified for recognition as a

Commercial Diver
with a specialty in
Nondestructive Testing Technology

This program consists of basic Commercial Diving courses and advanced training in the technology of Nondestructive Testing in accordance with A.S.N.T.'s instruction SNT-TC-1A and Canadian Standard 48.9712 as per I.S.O. 9000 series in the following areas: Ultrasonics (shearwave), Magnetic Particle, Dye Penetrant, and Visual. The holder of this certificate is qualified for entry level work as a commercial diver on underwater contracts in harbors, rivers, lakes and offshore projects, specializing in Underwater Inspections, as well as various Non Destructive Testing industries such as, Construction, Aerospace, and Petroleum.

Given this 27th day of June, 2002

Ella Jean Morgan, M.A., Dean of Education

Nicholas A. Frongale, Ed.D., President

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Elliott Coon

has participated in

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

hosted by

Kisinger Campo & Associates Corp.

Date: *August 01-02, 2019*
Location: *Tampa, FL*

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

Anthony Bibelhauser, CBI

Certified Bridge Inspector

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

Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered **00359** as provided by law and object to the powers of revocation vested in said Department on this **19th** day of **May 2000**, A.D.

BRIDGE MANAGEMENT INSPECTION ENGINEER

ENGINEER OF STRUCTURE MAINTENANCE

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Anthony Bibelhauser

has participated in

FHWA – NHI – 130078

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

KISINGER CAMPO & ASSOCIATES, CORP.

Date: FEBRUARY 5, 2008

Location: TAMPA, FLORIDA

Hours of Instruction: 28

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute
Certificate of Training

Anthony Bibelhauser

has satisfactorily completed training in

Safety Inspection of In-Service Bridges

conducted by

Michael Baker Jr., Inc.

Location: Deerfield Beach, Florida

Date: 2-13 August 1999

Hours of instruction: 80

Continuing Education Units: 6.0

Instructor

Director
National Highway Institute

Coordinator

Federal Highway Administrator

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute
Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Anthony Bibelhauser

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

Volkert, Inc.

Date: *January 23-27, 2017*

Location: *Mobile, AL*

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Anthony T Bibelhauser

has participated in

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

hosted by

Volkert, Inc.

Date: *November 3-4, 2010*
Location: *Tampa, FL*

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

FDOT

This Certifies that
ANTHONY BIBELHAUSER

Has Completed a Florida Department of Transportation Approved Temporary Traffic Control (TTC) Intermediate Course.

Date Expires: 12/12/2024 **Certificate #** 68303
Instructor: Larry D. Riley **FDOT Provider #** 176

Access Safety Compliance Training
Phone: 561-350-8913
11481 SW Rossano Ln.
Port Saint Lucie , FL 34987
www.asctraininginc.com
larry@asctraininginc.com

ACCESS SAFETY COMPLIANCE TRAINING

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Anthony Bibelhauser

has participated in

130053A

Bridge Inspection Refresher Course

hosted by

Kissinger Campo & Associates

Date: 08/21/2007
Location: Tampa, FL

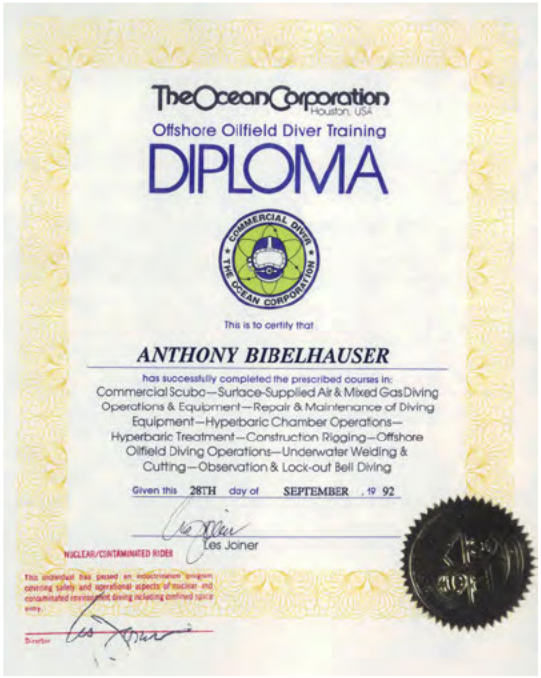
Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

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



The Ocean Corporation
Houston, USA

Offshore Oilfield Diver Training

DIPLOMA

This is to certify that

ANTHONY BIBELHAUSER

has successfully completed the prescribed courses in:
Commercial Scuba—Surface-Supplied Air & Mixed Gas Diving Operations & Equipment—Repair & Maintenance of Diving Equipment—Hyperbaric Chamber Operations—Hyperbaric Treatment—Construction Rigging—Offshore Oilfield Diving Operations—Underwater Welding & Cutting—Observation & Lock-out Bell Diving

Given this 28TH day of SEPTEMBER , 19 92

Les Joiner

NUCLEAR/CONTAMINATED RIDER

This individual has passed an indoctrination program covering safety and operational aspects of nuclear and contaminated environment diving including confined space entry.

Director

This certifies that

Anthony Bibelhauser

Has successfully completed

National Bridge Element Training

DOT Course PE-07-0003
FBPE Course 0009423

by

Florida Department of Transportation

Presented October 7-8, 2014
Hosted by Volkert, Inc.
In Tampa, Florida
And has Qualified for 14 PDH Credits

John Clark, P.E. Richard T. Kerr, P.E.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Anthony Bibelhauser

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Ayres Associates Inc.

Date: *July 7-9, 2015*
Location: *Tampa, FL*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs

Valerie Briggs, Director
National Highway Institute

KARCHNER & ASSOCIATES TRAINING SYSTEMS, INC.

6722 RUNNINGWOODS DRIVE – STE. #1 – TAMPA, FLORIDA 33634 (813) 889-0486 FI49-0001212 USF-OTI #392

CERTIFIES THAT

Anthony Bibelhauser

Has successfully met certificate requirements for

10 HR. CONSTRUCTION INDUSTRY SAFETY & HEALTH OUTREACH TRAINING PROGRAM

CONDUCTED ON
JUNE 14TH, 2010
In
TAMPA, FLORIDA
Certificate Number
1318

Score: Passed

SSN: [redacted]

Exam Dated: June 14th, 2010

Accreditation Expires: Does Not Expire

KA10-16FL
Class

Jaime A. Andersen
Instructor

Course Director K.A.T.S. Jaime A. Andersen

LITHO, IN U.S.A.

Certificate of Completion

ANTHONY BIBELHAUSER

Has Completed a Florida Department of Transportation Approved Temporary Traffic Control (TTC) Intermediate Course.

12/12/2024	176	Larry D. Riley	68303
Date Expires	FDOT Provider #	Instructor	Certificate #

ACCESS SAFETY COMPLIANCE TRAINING

Access Safety Compliance Training
11481 SW Rossano Ln.
Port Saint Lucie , FL 34987
www.asctraininginc.com
larry@asctraininginc.com

FDOT

For more information about Temporary Traffic Control (TTC) or to verify this certificate
www.motadmin.com

Barry Fagan, PE, PLS, ENV SP, CPMSM, CPESC, CESSWI

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

Mr. Barry Glen Fagan

License/Certificate Type - Number	Expiration Date
PE.0041589	09/30/2023

Status: Active

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

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

Barry Fagan, PE, PLS, ENV SP, CPMSM, CPESC, CESSWI

VOLKERT

Certificate of Training

Alabama Qualified Credentialed Professional Workshop

Madison	Irondale	Tuscaloosa	Montgomery	Spanish Fort	
October 31	November 1	November 2	November 3	November 8	2016

This certifies that

_____

participated the Alabama QCP Workshop at the location and on the date circled above.
6.5 hours of technical instruction were provided.

Instructors: Barry Fagan, PE/PLS, CPESC, CPMSM, CESSWI
Michael Perez, EI, CPESC, LEED GA

Barry Fagan, Lead Instructor
barry.fagan@volkert.com

Certification of participation by participant

GSWCC
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Barry Fagan

Level II Certified Design Professional

CERTIFICATION NUMBER **0000080917**

ISSUED: **06/27/2017** EXPIRES: **06/27/2020**

Gaston Ibarra, EI

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

Mr. Gaston Alejandro Ibarra

License/Certificate Type - Number	Expiration Date
EI.0033983	09/30/2023

Status: Active

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

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

Jeremy Vezina, EI

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

Mr. Jeremy Marc Vezina

License/Certificate Type - Number	Expiration Date
EI.0033378	03/31/2022

Status: Active

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

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

Certifications

Trevor Johnson, PE (MPR 7)

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

Mr. Trevor K. Johnson

License/Certificate Type - Number
PE.0045518

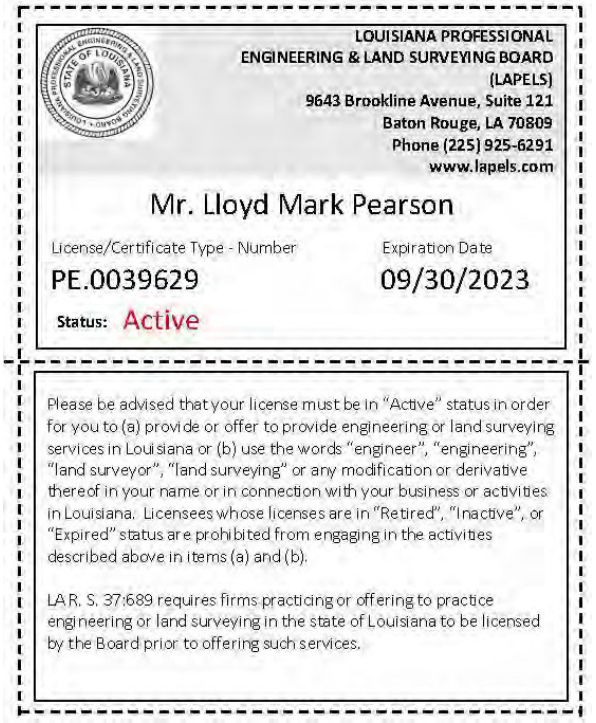
Expiration Date
09/30/2023

Status: Active

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

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

Mark Pearson, PE (MPR 4)



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

Mr. Lloyd Mark Pearson

License/Certificate Type - Number
PE.0039629

Expiration Date
09/30/2023

Status: Active

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

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

Arun Saha, PE

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

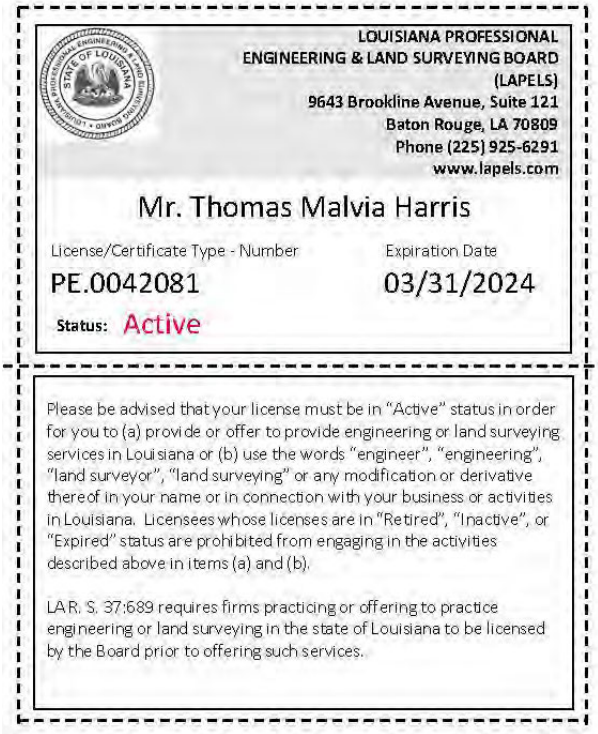
Mr. Arunava Saha

License/Certificate Type - Number: PE.0038334
Expiration Date: 03/31/2024
Status: Active

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

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

Thomas Harris, PE



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

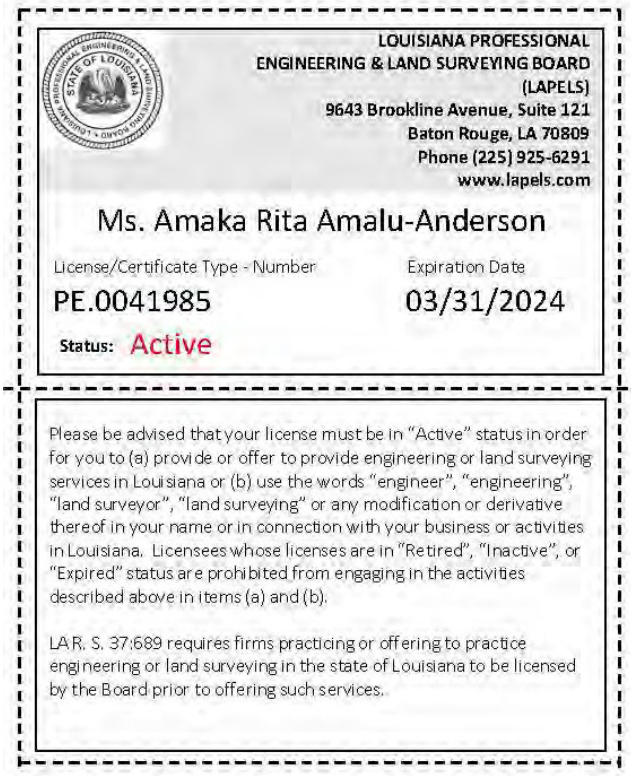
Mr. Thomas Malvia Harris

License/Certificate Type - Number: PE.0042081
Expiration Date: 03/31/2024
Status: Active

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

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

Amaka Anderson, PE (MPR 5)



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

Ms. Amaka Rita Amalu-Anderson

License/Certificate Type - Number: PE.0041985

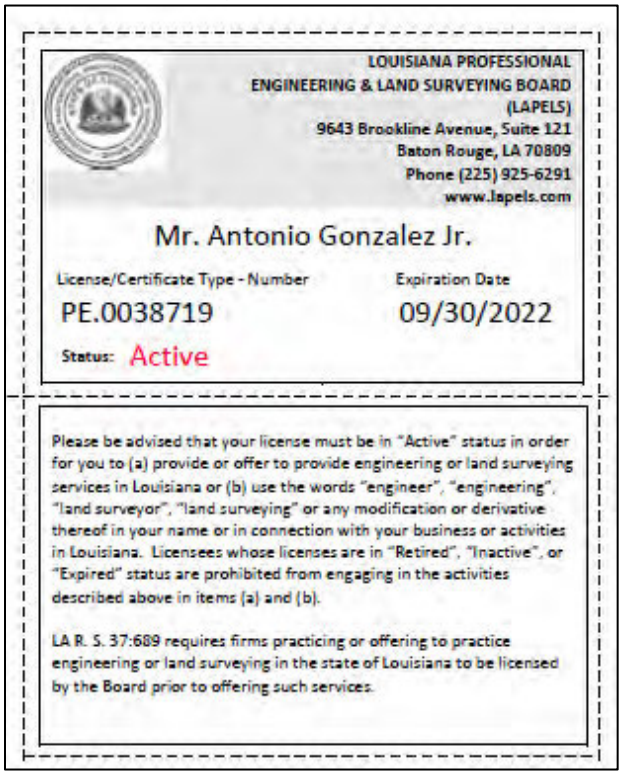
Expiration Date: 03/31/2024

Status: Active

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

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

Antonio Gonzalez, PE



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

Mr. Antonio Gonzalez Jr.

License/Certificate Type - Number: PE.0038719

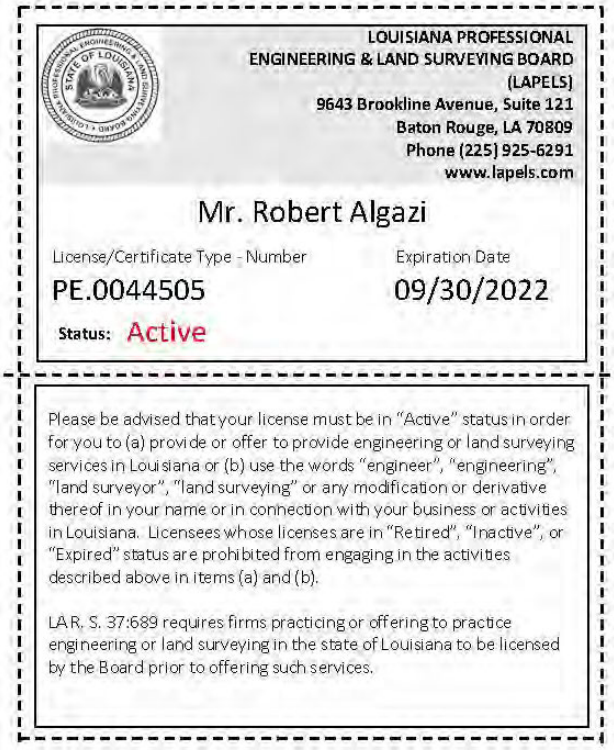
Expiration Date: 09/30/2022

Status: Active

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

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

Robert Algazi, PE



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

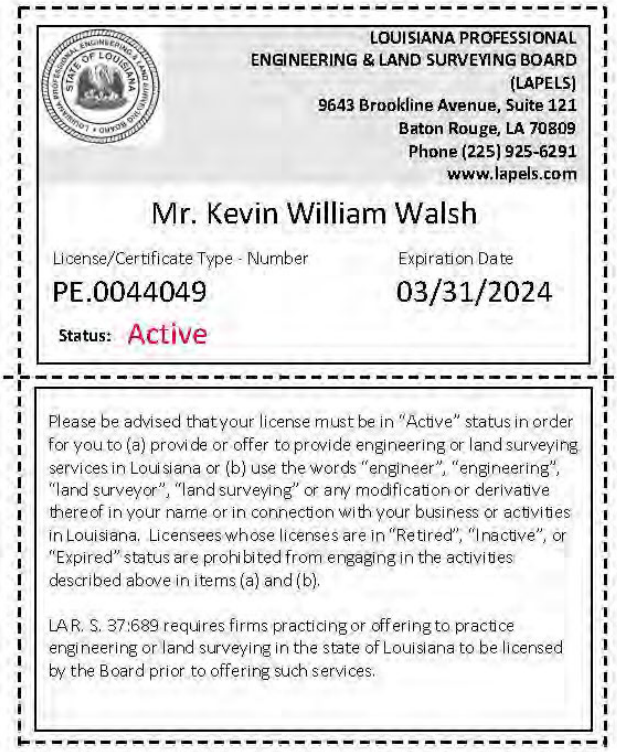
Mr. Robert Algazi

License/Certificate Type - Number: PE.0044505
Expiration Date: 09/30/2022
Status: Active

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

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

Kevin Walsh (MPR 6)



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

Mr. Kevin William Walsh

License/Certificate Type - Number: PE.0044049
Expiration Date: 03/31/2024
Status: Active

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

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

Christopher Ray

Mead & Hunt

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

Certificate of attendance and participation for:

Christopher Ray

Training Course:
Maintenance and Rehabilitation of Historic Bridges

July 2020

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

Mead & Hunt Instructor
Amy Squitieri

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

JORGE LEON, PE

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/6/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Jorge Leon
400 Northwest 125th Avenue
Miami, Florida 331821254

Cut Here

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

Mr. Jorge Leon

License/Certificate Type - Number: PE.0044073

Expiration Date: 03/31/2024

Status: Active

Fold Here

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

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

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Jorge Leon

has participated in

130125 Tunnel Safety Inspection Refresher ILT

hosted by

BI-State Development Agency

Date: October 12-14, 2021

Location: Online Delivery, MO

Hours of Instruction: 17

Instructor

Instructor

Suzanne Whitehead
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/6/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Nicholas Joseph Altebrando
11 Mile Road
Suffern, New York 10901

Cut Here

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

Mr. Nicholas Joseph Altebrando

License/Certificate Type - Number: PE.0031404

Expiration Date: 03/31/2024

Status: Active

Fold Here

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

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

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

Disclaimer
All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/6/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Lawrence William Nash
5 Chanowich Court
Middletown, New Jersey 07748

Cut Here

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

Mr. Lawrence William Nash

License/Certificate Type - Number: PE.0042136

Expiration Date: 03/31/2024

Status: Active

Fold Here

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

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

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

Disclaimer
All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Drew Appler

has participated in

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

hosted by

Kisinger Campo & Associates Corp.

Date: *August 01-02, 2019*

Location: *Tampa, FL*

Hours of Instruction: 12

Steven J Miller
Instructor

Lisa Rossi
Local Coordinator

Instructor

Michael L Davies
Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

James Appler

has participated in

FHWA-NHI-380078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Wallace Montgomery

Date: *October 08-11, 2019*

Location: *Hunt Valley, MD*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

James A. Appler

has participated in

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

hosted by

Collins Engineers, Inc.

Date: **August 10-21, 2015**

Location: **Chicago, IL**

Hours of Instruction: **67 Hours**

Guy R Lang PE
Instructor

Dennis R. Boughman, P.E.
Instructor

Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department
of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

national highway institute

James Appler

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Collins Engineers, Inc.

Date: March 16-18, 2021

Location: Virtual Delivery, IL

Hours of Instruction: 18

Digitally signed by Cailein A. MacDougall, P.E.
Date: 2021.03 26 17:23 23 -04'00'

Instructor

Finn K. Hubbard
2021.03.22 06:25:33
-05'00'

Instructor

Drew Garceau

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Acknowledges that

EDWARD MICHAEL CINADR

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

CERTIFIED

LEVEL II ROPE ACCESS TECHNICIAN

IAN BEVAN, EVALUATIONS COMMITTEE CHAIR

MICHAEL SEAL, SPRAT PRESIDENT

AWARDED: JANUARY 30, 2015
Expires: February 3, 2018

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Ed Cinadr

has participated in

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

Oregon Department of Transportation

Hours of Instruction: 20

Date: February 1 - 4, 2011

Location: Portland, Oregon

J Eric Mann
Instructor

James a Gundy
Instructor

Lorie Schaefer
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Edward M. Cinadr

has participated in

Safety Inspection of In-Service Bridges

hosted by

Caltrans - Structure Maintenance & Investigations
and Michael Baker Jr., Inc.

Date: *January 3 – 14, 2011*

Location: *Sacramento, California*

Hours of Instruction:
60 hours (10 days) Course # 130055

Greg A. Kolle P.E.
Instructor *Greg A. Kolle, P.E.*

William R Gardner P.E.
Instructor *W. Ronald Gardner, P.E.*

Judi L. Wong
Local Coordinator *Judi L Wong*

Richard Barnaby, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Ed Cinadr

has participated in

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

Oregon Department of Transportation

Hours of Instruction: 20

Date: February 1 - 4, 2011

Location: Portland, Oregon

J Eric Mann
Instructor

James a Gundy
Instructor

Lorie Schaefer
Local Coordinator

Richard Barnaby, Director
National Highway Institute

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOCAL TECHNICAL ASSISTANCE PROGRAM — LTAP — LOUISIANA TRANSPORTATION RESEARCH CENTER

Certificate of Attendance

PRESENTED BY

Louisiana Department of Transportation and Development
And
Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Edward Cinadr

HAS SATISFACTORILY COMPLETED 4 HOURS OF TRAINING

Bridge Load Rating in Louisiana

Mark B. Walsh

Director Local Technical
Assistance Program

September 25, 2015
Date

Baton Rouge, Louisiana
Location

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Brendan Prendeville

has participated in

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

Oregon Department of Transportation

Hours of Instruction: 20

Date: February 1 - 4, 2011

Location: Portland, Oregon

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department
of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

Brendan Prendeville

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Nebraska LTAP

Date: February 2 - 4, 2021

Location: Virtual Delivery, NE

Hours of Instruction: 18

Instructor

Instructor

Phyllis Schwab

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department
of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

Brendan J. Prendeville

has satisfactorily completed training in

Safety Inspection of In-Service Bridges

Hosted by

Texas Department of Transportation

Location: **Austin, TX**

Date: **March 7-18, 2005**

Hours of Instruction: **72**

Continuing Education Units: **6.0**

Instructor

Director,
National Highway Institute

Ray L. Belk, SPHR, Director
Training, Quality, and Development Section

Director, Office of Professional Development
Federal Highway Administration

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

Brendan J. Prendeville, P.E.

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

The American Council of Engineering Companies of WV

Date: **November 20-22, 2011** ***Hours of Instruction:*** **18**

Location: **Charleston, WV**

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Brendan Prendeville

has participated in

FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

Oregon Department of Transportation

Hours of Instruction: 20

Date: February 1 - 4, 2011

Location: Portland, Oregon

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Acknowledges that

BRENDAN J. PRENDEVILLE

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

CERTIFIED

LEVEL II ROPE ACCESS TECHNICIAN

IAN BEVAN, EVALUATIONS COMMITTEE CHAIR

MICHAEL SEAL, SPRAT PRESIDENT

AWARDED: JANUARY 30, 2015
Expires: February 2, 2018

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT®
Society of Professional Rope Access Technicians

Acknowledges that

BRENDAN J. PRENDEVILLE

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

CERTIFIED

Level 2 Rope Access Technician

SPRAT #080310

AWARDED: January 28, 2022

Expires: January 28, 2025

TROLL , EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

U.S. Department
of Transportation

Federal Highway Administration

National Highway Institute

Certificate of Training

Brendan Prendeville

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Nebraska LTAP

Date: February 2 - 4, 2021

Location: Virtual Delivery, NE

Hours of Instruction: 18

Instructor

Instructor

Phyllis Schwab

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

The American Traffic Safety Services Association

Hereby recognizes that

Brendan Prendeville

has attended

Traffic Control Technician-LA State Specific

Training Course

12/4/2018 to 12/4/2018
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Brendan Prendeville

has attended

Traffic Control Supervisor-LA State Specific

Training Course

12/5/2018 to 12/6/2018
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Michael Kronander

has participated in

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

hosted by

ConnDOT

Date: June 1-12, 2015

Location: Newington, CT

Hours of Instruction: ***67***

Dennis R. Bumgrn, P.E.
Instructor

William R Davidson PE
Instructor

David M. Maher
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Michael Kronander

has participated in

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

hosted by

Ohio Department of Transportation

Date: *June 15-16, 2017*

Location: *Columbus, OH*

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Kronander

has participated in

FHWA-NHI-130078 Fracture Critical Inspection for Steel Bridges

hosted by

Ohio Department of Transportation

Date: *October 18-21, 2016*

Location: *Garfield Heights, OH*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

APS Engineering & Testing, LLC.

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC221310, NC221320, NC541330, NC541370, NC541380, NC541620, NC541690

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: October 2021 to October 2022

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

The American Traffic Safety Services Association

Hereby recognizes that

Paul Fulcher

has attended

Traffic Control Technician-LA State Specific

Training Course

07/24/2018
Date

Baton Rouge, LA
Location

Training & Products Dept. Director

President, CEO

SAFER ROADS SAVE LIVES

The American Traffic Safety Services Association

Hereby recognizes that

Surendra Pathak

has attended

Traffic Control Technician-LA State Specific

Training Course

2/5/2019 to 2/5/2019
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Humphrey
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Shiva Reddy Anumula

has attended

Traffic Control Technician-LA State Specific

Training Course

07/24/2018
Date

Baton Rouge, LA
Location

SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Sairam Eddanapudi

has attended

Traffic Control Technician-LA State Specific

Training Course

2/5/2019 to 2/5/2019
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

LOUISIANA ASSOCIATED GENERAL CONTRACTORS, INC.
666 North Street – Baton Rouge, LA 70802
Phone: 225/344-0432 * Fax: 225/344-0458
www.lagc.org

January 7, 2019

To Whom It May Concern,

This is to verify that the below listed employee of APS Engineering & Testing has completed LADOTD required ATSSA traffic control training. We are currently awaiting the results of his exam.

LA Specific Traffic Control Supervisor Refresher – December 7, 2018 – Sergio Aviles

If there are any questions regarding this issue, please contact Mr. Barry Lacy, P.E. of LADOTD at Headquarters in Baton Rouge, LA (225-379-1584) or Michael Demouy at the above captioned address.

Best Regards,

Michael Demouy – LAGC Manager

www.sspc.org 800 Trumbull Drive Pittsburgh, PA 15205 P: 412.281.2331 T: 877.281.7772 F: 412.444.3591

January 9, 2020

Mr. Robert Lanterman, PCS
KTA-Tator, Inc.
115 Technology Drive
Pittsburgh PA 15275

Subject: SSPC Protective Coating Specialist (PCS) Recertification

Encl: Wallet ID Card, Certificate **Certification #: 2015-820-136**

Dear Mr. Lanterman,

This letter is to inform you that you have successfully completed your SSPC Protective Coatings Specialist (PCS) recertification.

This certification is awarded for a new term of four years and will expire on 12/31/2023.

At your four (4) year renewal date, you must submit documentation of 32 points of continuing education (CEU) to renew your certification.

Information on your next recertification will be mailed to you 6 months prior to expiration. In order to receive the information, you must notify SSPC of any change of address or employment. It is the responsibility of each certified individual to keep SSPC current on his or her contact information. SSPC will not be responsible for certifications that lapse because a reminder letter was sent to an incorrect address.

If you have any questions about your certification, please contact Silvia Palmieri at 412- 281-2331 Ext. 2201 or by e-mail at palmieri@sspc.org at your convenience.

You may also contact me directly at Ext. 2221 if you have any comments or concerns that you would like me to address. We appreciate your participation and are here to serve you.

Sincerely,

Jennifer Merck
Director of Training & Certification

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Robert Lanterman

As a Certified

NACE Certified Coating Inspector - Level 3

Executive Director
NACE International Institute

Expires
May 23, 2025

Cert No.13505

100520

PROTECTIVE COATINGS SPECIALIST

SSPC

PCS

This Card Certifies

Gregory Richards

has fulfilled the examination and experience requirements of the SSPC Protective Coatings Specialist Program (PCS).

SSPC President

Certified: 2019

Expires: 12/31/2023

ID#:2019-809-300

SSPC PCS Protective Coatings Specialist

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Gregory R Richards

As a Certified

NACE Certified Coating Inspector - Level 3

Executive Director
NACE International Institute

Expires
June 30, 2023

Cert No.6092

131775

www.sspc.org 800 Trumbull Drive Pittsburgh, PA 15205 P: 412.281.2331 T: 877.281.7772 F: 412.444.3591

March 31, 2020

Mr. Pedro Sanchez, PCS
KTA-Tator Inc
115 Technology Drive
Pittsburgh PA 15275

Dear Pedro,

Congratulations on your successful completion of SSPC's PCS Certification.

PCS certification is awarded for a period of four years, through 12/31/2024. Information on recertification will be forwarded to you six months prior to the expiration of your certification. Certification#: 2020-320-303.

A renewal notice will be mailed to you, 6 months prior to your 4th year expiration date reminding you to renew your Protective Coatings Specialist Certification.
At that time, you will be required to submit full documentation that you've accumulated 32 hours of continuing education credits (CEU) during your 4-year term. During your certification term, track and log your accumulated units, and save the information until you need to renew your certification.

We now offer a Track 2 for certification renewal. If a PCS is not able to obtain the required education/experience units to qualify for recertification according to Track 1, that individual may retake the closed book PCS exam and pass to earn 24 education units. The remaining 8 education units for re-certification must be completed by one of the methods referenced in the Recertification Units worksheet.

It is important that you notify SSPC of any address, phone or email changes in order that we can maintain contact with you. Remember to renew your membership with SSPC annually so that you will save and be charged the member rate for your PCS renewal.

Again, congratulations on your certification. If you have any questions, please contact Silvia Palmieri at 412/281-2331, extension 2201 or email palmieri@sspc

Sincerely,

Jennifer Merck
Director of Training & Certification

NACE INTERNATIONAL INSTITUTE

May 7, 2019

Pedro Miguel Sanchez
10885 Northwest 89 Terrace APT 224
Doral, FL 33178

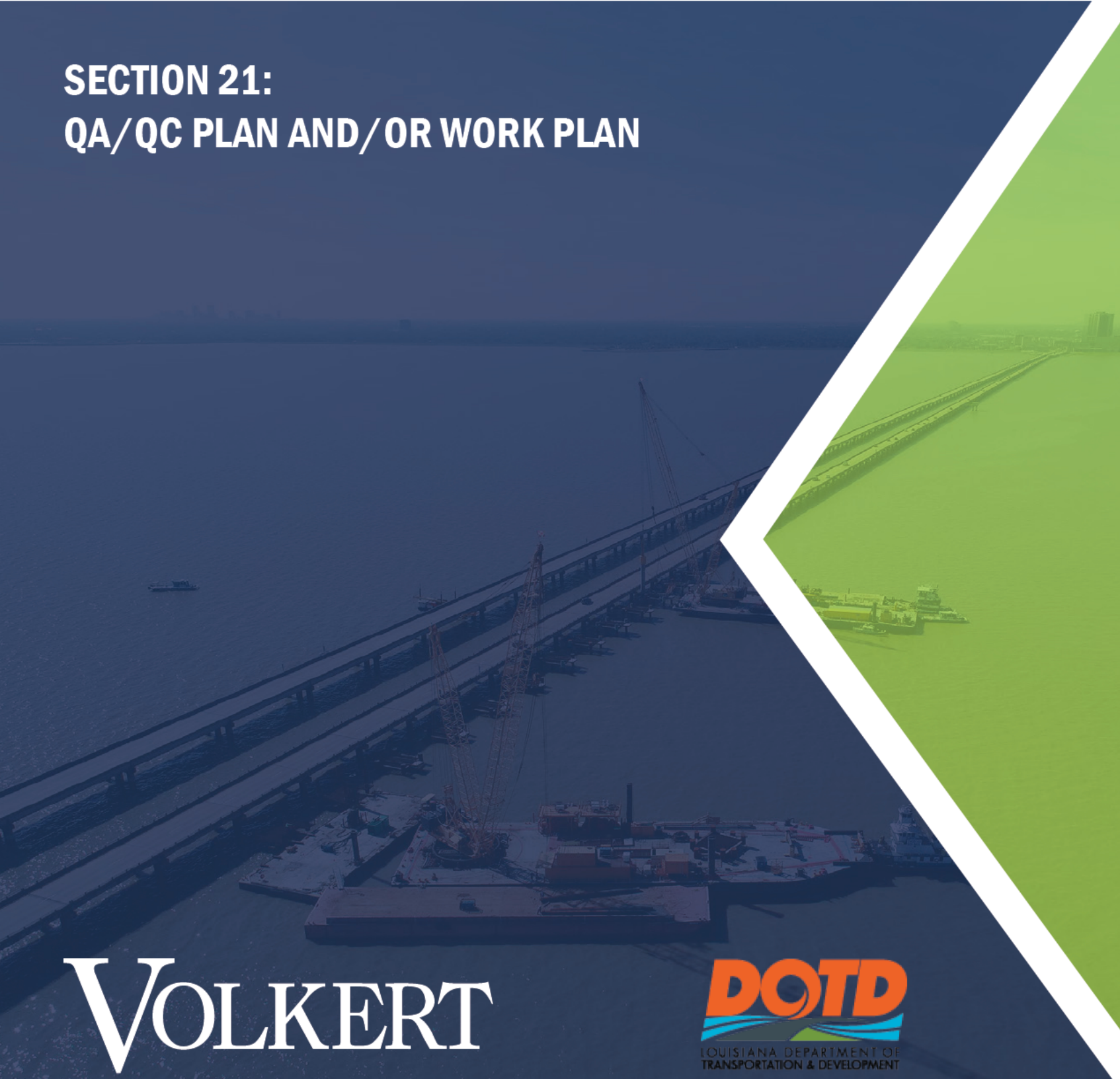
Your New Certification Card

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

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

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

SECTION 21:
QA/QC PLAN AND/OR WORK PLAN



VOLKERT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

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

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

See attached.

IDIQ Contracts for Bridge Preservation

Statewide

CONTRACT NO. 4400023921, 4400023922, 4400023923, 4400024185
4400024186, 4400024187, 4400024188, 4400024189

Quality Assurance / Quality Control Plan

DOCUMENTATION MANUAL FOR PROJECT DELIVERY

Prepared By:

VOLKERT

7967 Office Park Blvd.
Baton Rouge, LA 70809
225.218.9440

DOTD

LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

May 10, 2022

Table of Contents

I. Project Quality Control and Quality Assurance Plan

Introduction

Volkert's goal for this project is to contribute to a quality set of preliminary construction plans and documents for the Louisiana Department of Transportation and Development (LA DOTD). Volkert also strives to gain client satisfaction on each project and further solidify our established performance record with the LA DOTD.

Volkert is committed to achieving the highest levels of quality through continuous review of internal processes and employee training. To ensure the implementation and maintenance of a controlled quality assurance process, Volkert has established performance measures that can be tracked, evaluated and improved. The company recognizes that quality assurance is the responsibility of every employee, and thus strives to make quality assurance an integral part of every process. All employees are individually responsible for the quality of their work and for proactively improving their professional skills.

Volkert utilizes a system of quality assurance based on the principles of Deming's Total Quality Management (TQM). The first and most important segment of the quality plan will be the implementation of team-wide quality assurance measures, which are based on the TQM principle, "build quality into the product the first time around". The accomplishment of this portion of the plan will be the responsibility of every member of the project team.

This plan has been developed as part of Volkert's standard policy on adhering to quality and has been developed specifically for this project in accordance with the LA DOTD *Construction Plans QC/QA Manual*, the LA DOTD *Bridge Design Section Policy on QC/QA*, and the National Transportation Safety Board *Guidance on QC/QA Bridge Design*.

Efficiency

It is understood that Volkert is fully responsible for QC/QA of their work and no other entity is responsible for performing QC/QA of Volkert's work. The data being produced for the project including the construction plans, reports, quantity computation book, and design documentation will be produced in accordance with current LA DOTD and/or Volkert practices and procedures. Utilizing the processes outlined in the following sections, Volkert intends to build quality into the project from the beginning in order to minimize time and effort spent later in design and construction.

Project Start-Up Procedures

It is preferred that a Project Manager be assigned as soon as Volkert is short-listed for a project. The Project Manager assists the client in preparing the scope of work, and is responsible for developing the fee proposal, sub-consultant fee coordination and assist in the negotiating the fee with the client. When it is not possible to assign the Project Manger initially, the Project Manager should review all contract requirements, minutes of meetings, and procedures as his/her first order of work when assigned the project. The Project Manager should prepare necessary start-up forms and request a job number be assigned to the project. The Project Manger should make sure appropriate correspondence files are established by the secretarial staff and that CADD directory and plan files drawings are set up, prepare the project budget and the project schedule, and coordinate the budget/schedule with other departments or offices if required and set up the appropriate QC procedures to follow at the start of the project.

Documentation

Volkert's staff is continuously striving to improve the organization and maintenance of project documentation. A user-friendly, workable system ensures that project documentation is easily completed and accessible during the design phase and ultimately during construction.

Volkert has determined the most effective means by which to document the project is to initially set up design documentation procedures, as this will be submitted to the LA DOTD, in a Design Documentation Booklet format. The design documentation is stored in a central location, accessible by all project team members.

The maintenance of all records documenting project decisions is essential to the quality control process. Design documentation and the organizational structure should be such that someone totally unfamiliar with the project could follow the decision made on the project by reviewing the documentation. It is Volkert's goal to establish comprehensive records for this project.

Objectives

The primary objective of the processes set forth in this document is to provide a mechanism by which the plans can be subject to a systematic and consistent review. The outcome of the review should create a set of quality project plans which would be substantially error free. A secondary objective is to provide information feedback from reviews in order to improve expertise and knowledge. Another secondary objective is to provide for a well-documented "trail" of the design process.

The following parallel processes comprise the QA/QC Process:

Quality Control (QC): The procedures of checking the accuracy of the calculations and consistency of the drawings, detecting and correcting design omissions and errors before the design plans are finalized.

Quality Assurance (QA): The procedures of reviewing the work to ensure the quality controls are in place and effective in preventing mistakes, and consistency in the development of design plans and specifications.

Organization

In order to accomplish effective Quality Control and Quality Assurance, there are key personnel responsibilities which are described below.

Project Manager (PM): The person responsible for the planning, coordination and controlling of a project from inception to completion, meeting the project's requirements and ensuring that each project is completed on time, within budget, and to required quality standards. The PM is typically responsible for the distribution of review prints at the phase reviews. The PM ensures that all comments have been satisfactorily addressed and that all forms and checklists have been completed by the appropriate personnel.

Engineer of Record (EOR): The individual who is responsible for all aspects of the design and maintains frequent contact and communication with the client. This individual will be licensed professional engineer. The EOR will seal and sign the final contract plans. The EOR directs technical staff, and allocates resources to various elements of the work. The EOR establishes and implements the Project Quality Control Plan, schedules the various quality control activities and adjusts the QA/QC plan as the work progresses. The EOR is responsible for technical review and approval of project documents and identifies the Quality Control personnel required for each review. This project will have separate EORs for Bridge Design and for Roadway Design.

Designer: An individual directly responsible for the development of design calculations, drawings, specifications and contract documents. The designer will be assigned with a level of technical skills and experience commensurate with the complexity of the work. If not a licensed engineer, the designer should work under the direct supervision of a Professional Engineer. An individual with a Louisiana Professional Civil Engineer License is desired.

Drafter/Detailer: An individual who prepares drawings under the direction of an assigned Designer.

Checker: An individual responsible for performing a full technical review of the design calculations, drawings, specifications and contract documents. An individual with a Louisiana Professional Civil Engineer License is desired. Checkers may have prepared a portion of the product, but not the portion they are reviewing. Checkers must however be from the area of expertise of the area they are checking. For example, a traffic engineer would not check a drainage design.

Reviewer / Quality Assurance Manager: An engineer or manager with general experience in the area of design whose primary responsibility is to approve the initial Project Quality Control Plan and periodically performs unannounced QA reviews to ensure the plan is being adhered to, and to document deficiencies and recommend improvements to the Project Manager, Engineer of Record or the Designers, as appropriate.

Table 1: QC/QA Personnel Initial Areas of Responsibility Assignment				
Discipline	**Designer**	**Checker (QC)**	**Reviewer (QA)**	**EOR**
Bridge Design and Plans (Fixed Bridges)	Jacob Parker, PE	Jeremy Vezina, PE	Hossein Ghara, PE	Jacob Parker, PE
Bridge Load Rating	Jeremy Vezina, EI	Jacob Parker, PE	Hossein Ghara, PE	Jacob Parker, PE
Bridge Inspection	Matt Burnett, PE	Aaron Immel, PE	Hossein Ghara, PE	Matt Burnett, PE
Bridge Design and plans (Movable Bridges)				
Structural Design	Arun Saha, PE	Trevor Johnson, PE	Hossein Ghara, PE	Arun Saha, PE
Mechanical Design	Robert Algazi, PE	Amaka Amalu-Anderson, PE	Hossein Ghara, PE	Robert Algazi, PE
Electrical Design	Kevin Walsh, PE	Antonio Gonzalez, PE	Hossein Ghara, PE	Kevin Walsh, PE

Control of Sub-consultants

Sub-consultants will follow this Project Quality Control Plan or submit their own quality control plan for review and approval. Sub-consultants will submit their product to Volkert prior to submittal to the client for review as part of the quality control process. Comments by the checker(s) will be submitted to the sub-consultant for correction as needed.

Phase Review

Phase review refers to the formal review by various disciplines at various stages of the plan's development process. Phase review typically occurs at the 30%, 60%, 90%, and 95% (plan-in-hand) completion stages for preliminary plans, and at the 60% and 95% (advance check) completion stages for final plans. Additional submittals may be required as directed by the LA DOTD Project Manager. For more information on required reviews, see the attachments in "Phase Review Guidelines."

This Quality Control Plan shall be adhered to for each submittal and the required quality control documents shall accompany each submittal. The Engineer of Record is responsible for providing a quality product to the client and will confirm each submittal item being forwarded to the client has been developed in accordance with the Project Quality Control Plan. The Engineer of Record will review all submittals and complete the "Submittal Quality Assurance/ Quality Control Certification" prior to forwarding the submittal to the client.

Quality Control Reviews Process and Procedures

A quality set of plans must be complete, consistent, clear, correct, and constructible. The following guidelines should define a quality set of plans:

- The plans will be an accurate and thorough representation of the existing project site and terrain features.
- The plans will be an accurate and thorough representation of the proposed project features and details to be constructed.
- The plans will be supported by a thorough and detailed documented developed process.
- The plans will be developed with the active involvement of all affected parties and developmental stage owners throughout all stages of development.
- The plans will be consistent with other plans developed by and for LA DOTD and will comply with all standards and guidelines set by the LA DOTD design manuals, AASHTO design guidelines and electronic standards.
- The plans comply with project requirements
- The plans are technically accurate
- The plans are compatible with other associated project documents
- The plans comply with previous review comments

There are three principal project elements which are required to be comprehensively checked for any submittal. These elements are Calculations, Drawings, and Reports. Although there is often an overlap among calculations, drawings, and reports, their Quality Control processes are described below.

Calculations

All primary structural components must be calculated and checked in detail, including superstructure, bearings, joints, and substructure components. In a similar fashion, all critical highway design elements and calculations must be documented and checked in detail.

To facilitate Quality Control Reviews, the designer must prepare a Design Criteria Checklist in accordance with the items listed in the Design Criteria Checklist attached to this document. This Design Criteria Checklist supplements the general criteria for quality plans listed on page 7.

Manual calculations will be prepared in pencil. Calculations may also include other forms, charts, graphs, data sheets, computer printouts, etc. Calculations will include documentation of all assumptions of the bridge design including general conditions and loadings. Calculations will also include reference to or copies of all criteria, pertinent information, related drawings, etc. All calculations should include an entry at the top right corner of each sheet for the designer to sign and date following completion of the design and checker to sign and date following their review. If the designer revises the design after it has been checked he will erase the signature and date of the checker and resubmit the design for review.

Volkert will utilize LA DOTD approved software where applicable. Prior to using any new spreadsheets or computer software to complete calculations that will be used for design, the calculations produced from the software will be thoroughly checked and compared against manual calculations or previously approved computer generated calculations. Assumptions and criteria must be well-documented in report form.

Utilizing a team approach to design of these projects allows for all design calculations to be back-checked in a timely manner. The designer will submit the design to a checker as early as reasonable in order to minimize mistakes. The Checker will review the design according to the requirements of the Design Criteria Report and other requirements. Minimum items to be checked are the logic and methodology of calculations, the assumptions and design criteria, and accuracy and correctness. Review of computer-generated calculations will include a manual spot check for completeness, accuracy and compliance with standards.

The checker will submit comments to the Designer and Project Manager. Any questionable designs or disputes with the Checker must be resolved by the designer to the Project Manager's satisfaction and documented by a Peer Review Dispute Resolution Agreement. The designer shall prepare a Quality Control Review Memorandum documenting the basis of the review, the specific items that were reviewed, the findings of the review, and the follow-up, if any, that was accomplished.

Due to the conceptual nature of the Preliminary Design phase, detailed independent technical reviews of calculations of some bridge elements do not need to be conducted until Final Design.

At the completion of the Final contract drawings, provide a set of design calculations for all structural elements, sealed/stamped and signed by the Engineer of Record for the project in accordance with the requirements of the state. A checklist for the Final Calculations Book is provided as an attachment to this document.

Drawings

The deliverables for this project will include the construction plans to be used by the contractor to construct this project. In order to provide the contractor with a clear and concise set of instructions for constructing the project, the plan sheets will be closely reviewed to ensure the sheets clearly depict the anticipated effort.

To facilitate Quality Control Reviews, the designer will prepare a written Plan Review Checklist at the onset of work. The checklist will be prepared based on the data provided in LA DOTD current *Plans Preparation Manual* and other project requirements in order to ensure that the sheets contain the required data. This Plan Review Checklist will supplement the general criteria for quality products listed on page 7.

Plans will be prepared by a drafter or detailer under the direction of an assigned Designer. The plans are developed progressively by an iterative process using sources of information such as survey data, reports, record data, preliminary sketches, samples, etc. in conformance with the project requirements, design criteria, and standards and guidelines required by the client. Before a plan sheet is considered readied for the quality control (QC) process, the sheet will be checked by the Designer for conformance with design criteria and project requirements; completeness and clarity; coordination with other aspects of the project; compatibility with standards and good plans preparation practice; and coordination with project elements being developed or planned development on adjacent projects. The Designer review will evaluate the design from an engineering perspective, questioning the constructability, conformance with design, and coordination of the design throughout the project.

Following confirmation that the plan sheets are complete the QC process will begin. In no way is the QC review intended to replace the required design reviews accomplished each day as the project is being developed. It is Volkert's desire to establish a project team that is knowledgeable of the design criteria and is experienced with similar types of projects. The project team works together to design and review the project on a day-to-day basis.

The first step of the QC process is for each plan sheet to be checked by the Checker against the Plan Review Checklist. Checklist will be included in the appendix of this document. The checklist review will be used to confirm all required data is included on the sheet and the data is coordinated throughout the plan assembly. Concurrently with the Checker(s) review the Engineer of Record will review the design for overall conformance with the project scope and consistency of the design throughout the plans.

After any required changes are made, the names or initials shall be placed on the drawings indicating the individual who prepared the drawing, the drawing checker (if different than the designer), the designer, the design checker, and reviewer, if applicable.

Volkert technicians are familiar with the LA DOTD CADD Standards. Volkert utilizes Altiva CAD conform software to be LA DOTD standard compliant.

After completion of the project, Volkert will provide the LA DOTD with appropriate CADD-developed information. This will include data files and graphics in an electronic format that is compatible with the LA DOTD's CADD manual.

Sealing of the plans by the EOR would follow state requirements.

Reports

The designer will prepare an outline as the first step in the preparation of all reports. The outline will be submitted to the EOR for approval. The outline will be reviewed for duplication and overlap, focus on the major issues, and consistency of format and structure. Once the report is complete in draft stage, the designer will send the report to the checker(s), including one copy to the engineer of record. The checkers will be given a deadline for completing the review.

The checker(s) will date and sign the cover page of the report following completion of their review and will mark all comments and correction in red pen. The designer will confirm and revise the report based on the noted corrections and comments, add any additional comments or corrections as needed, and consult with the checker(s) to resolve any conflicts. The designer will finalize the report by obtaining a new copy of the report once all corrections are completed and ensuring all comments and corrections noted by the checker(s) have been incorporated into the report.

In addition to the project submittal reviews described above, there are many more good practices that should be followed in order to produce a quality product in a professional manner. These guidelines should be addressed and required reviews should be completed on an as-needed basis.

Correspondence: Volkert's Project Manager or assigned public document coordinator will review any correspondence that is prepared for external customers (i.e. public letters, letters to public officials, correspondence with property owners, etc.). The review shall include spelling, grammar, punctuation, sentence structure, correct address and title. The goal is accuracy, simplicity and uniformity. All correspondence shall always include the LA DOTD Project IDs when referring to a project. Also, the PM and/or the public document coordinator will review data to be displayed at public meetings and presentations to local governments.

Constructability Reviews: Based on previous experience, Volkert understands the need to evaluate project constructability during the design process. Volkert Designers consider how the project will be constructed and paid for, including scheduling requirements, sequencing, phase conflicts, change order potential, construction means, contracting strategy, environmental constraints, and construction materials/fabrication requirements. The design documentation will include discussion on the construction of the project. In addition to staffing the project with experienced designers, Volkert will utilize in-house construction inspection personnel (CEI) to review the design for constructability. These experienced CEI personnel provide Volkert designers with an accessible data source.

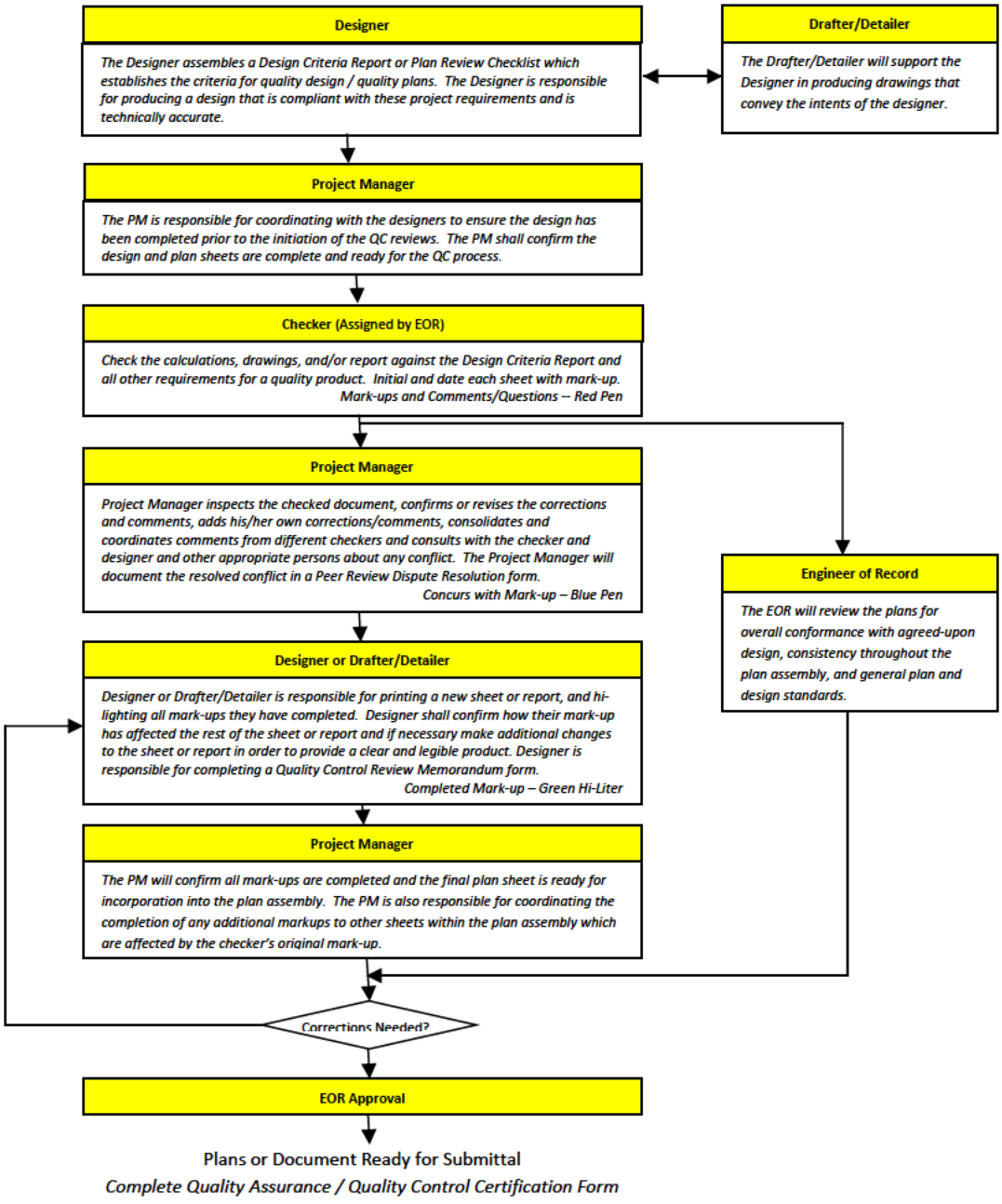


Fig. 1: Quality Control Process Flowchart

An informal review following the 60% preliminary submittal will include a review of the constructability of the horizontal and vertical alignments, the phasing of the project, the feasibility of maintaining traffic, conflicts with drainage and utilities, etc. A formal, documented review following the Advance Check Plan (ACP) will include a review of the method of payment for work to be completed, the conflicts to be anticipated with existing and proposed facilities, methods to minimize conflicts with drainage and utilities, and the maintenance of traffic.

Field Reviews: Volkert realizes that timely and effective field reviews are essential for the development of high-quality construction documents. We want to ensure that each review is conducted in an efficient and comprehensive manner, so that the information collected is readily available for reference as the construction plan set is assembled.

Volkert typically conducts field reviews prior to critical junctures during the course of the project. Prior to each field review the project manager will determine the goals of the field review and then assign the personal that will participate in the review. Typical Field Review checklists are located on the Volkert Intranet under checklist. Prior to departing to the project site, the checklist will be reviewed so the appropriate tools, equipment, and materials are readily available on site during the field review. Any person visiting a project site should check out any appropriate safety equipment.

As a part of the field review, photographs will be taken to document field conditions and items of concern. Photographs are valuable for future reference and to record existing conditions at the time of the review. The field review will be documented to include notes taken during the field review. The notes will consist of answers to specific questions determined beforehand, as well as issues discovered during review. Following the field review, the information gathered in the field is summarized and documented (with photographs) in report form, including a summary of the findings during field review and disposition of items noted during the field review.

Meetings: Another aspect of quality control concerns the accurate documentation of events that occur during the time that the project is active. Documentation involves the recording of meeting minutes and telephone conversations, which concern the project.

Volkert will prepare minutes for each meeting and field review conducted. The minutes will document the decisions and discussions that transpired at the meeting. At least two project team members and the project manager will typically represent Volkert at meetings. The minutes will be prepared and submitted to the LA DOTD's project manager for review and approval prior to finalizing and distributing the minutes.

The accurate recording of verbal decisions reached, or instructions that are given, is very important to both Volkert, and the client. Volkert's staff will use Volkert's interoffice memo form, or e-mails to the file to document calls that are made or received concerning this project.

Project Coordination: Volkert is aware of the coordination requirements for each project, both internally and with the client. Project coordination with the client's project manager will be on an "as needed" basis to ensure the client's project manager is aware of the status of the project. In addition, Volkert will submit monthly progress reports to the client project manager, or designated

person, informing him of the work completed in the current reporting period, work to be completed within the following period, a listing of items previously requested but not yet received, and a listing of milestones and dates.

Disposition of Comments: All comments made by external reviewers will be formally addressed. The Designer responsible for the discipline that prepared the document that was reviewed will respond to the comment. Upon reviewing the comment, the Designer will prepare a draft response and if needed coordinate with the Engineer of Record to determine the required revision prior to initiating a plan modification. The response will be formatted in a manner that identifies the document reviewed, the date, and the reviewer. A copy of the comments will be returned with each re-submittal. Prior to re-submittal, the Engineer of Record will review the document for conformance with the disposition of comments.

Special Provisions: All relevant special provisions shall be identified by the appropriate author in responsible charge and checker. Sealing of special provisions should follow state requirements.

The Value Engineering study is conducted in Preliminary Design as an independent conceptual review of the project to supplement internal design team reviews.

Quality Assurance Reviews Process and Procedures

Quality Assurance will include a review to ensure compliance with the QC plan. The quality assurance review will include review of the project and interviews with the client Project Manager and at least one key Volkert project staff member. The interview outline is included in this document. The documentation from the QA review will be included in this Documentation Manual following the completion of the QA review.

QA reviews will be performed by the Reviewer/Quality Assurance Manager at least once during the 30% or 60% phase and once during the 90% or 100% phase to determine if the Project Quality Control Plan is being followed. The QA review will at a minimum consist of the following:

- Confirm personnel have been assigned to the project with an acceptable level of expertise for the design and review processes and that the design personnel are familiar with the Project's Quality Control Plan.
- Confirm the appropriate level of review and cooperativeness in the design, and constructability review has occurred.
- Review documentation concerning the level and quality of communications accomplished during the design process.
- "Spot check" disposition of comments to confirm that an appropriate and complete response has been provided.
- Meet at least once with the client project manager to discuss the effectiveness of the quality control plan and determine required changes to the plan.

- Document in writing quality control deficiencies, document the plan of action in coordination with the Engineer of Record to resolve the deficiencies, and follow-up to ensure the plan of action is installed.

The Quality Assurance process also includes participation in field engineering reviews during design, construction, and in-service. It also includes ongoing review by the Project Manager to ensure that the appropriate levels of review have occurred for constructability, biddability, value engineering, and project documentation.

II. Phase Review Guidelines

The following forms and checklists will provide the basis for developing and completing each one of the projects Phase review activities.

Consultant Submittal Review Checklist

Consultant Submittal Review Checklist

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

Legends:

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

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

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

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

Final Calculation Book Checklist *(Final Design Only)*

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

__ **Cover Sheet**

The following information must be included on the cover sheet:

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

__ **Final Calculation Book Check List**

__ **QC/QA Certifications**

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

__ **Design Criteria**

__ **Final Hydraulic Analysis Report from Hydraulic Engineer**

__ **Final Geotechnical Analysis Report from Geotechnical Engineer**

__ **Superstructure Design Calculations**

__ **Substructure Design Calculations**

__ **Quantity Calculations**

__ **Special Provisions/NS-Items**

__ **Construction Cost Estimate**

__ **As-Designed Rating Report**

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

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

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

__ **All Electronic Design Files**

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

Stage 3 Plan Review Distribution of Preliminary Plans

Purpose	No. Of Sets	For	Sheets Needed	Remarks
Project Initiation 15%	1	HQ Utility Section	Title Sheet, Plan & Profile	Parish Map & copies of field roll can be used for high priority projects
	1	Project Engineer		
	1	District Utility Representative		
	3	Real Estate Section		
	1	Road Design Section		
	3	Environmental Section		
Typical Section 30%	1	Geotechnical Engineer	Title Sheet, Proposed Typical Section, & Soil Survey	if soil survey has not been made, then proposed grade should be furnished
Utility 30%	2	HQ Utility Section	Title Sheet & P/P	for review w/ utility companies and municipalities
		District Utility Representative		
Bridge 60%	1	Bridge Design Section	Title Sheet & Specific P/P	only if bridges required
Geometric Review 60%	1	Geometric Design Engineer	Full Set	
Soil Borings, Probings, Sub-grade Soil Survey, Ph & Resistivity 60%	3	Pavement & Geotechnical Section	Title Sheet, Gen. Br. Plan, Plan/Profile Shts.	
Preliminary Drainage Check 60%	1	Bridge Design Section	All Information Requested	for permit determination
	1	Hydraulics Section		all projects
Preliminary R/W Maps & Property Survey, 60%	1	Location & Survey	Title Sheet, Plan Profiles	
	1	Real Estate		
Constructability Review 90%	1	District Area Engineer	Constructability review form distributed with or prior to Plan in Hand distribution	for constructability review
	1	Project Engineer		
Plan-In-Hand 90% (must be distributed 21 days prior to meeting)	1	Construction Section (Hdqtrs)	Full Set & Cross Sections	
	1	Traffic Engineering Management	Full Set	
	1	HQ Utility Section (letter only)		
	1	District Area Engineer		
	1	Project Engineer		
	1	Geotechnical Engineer		
	1	Road Design Section		
	1	District Utility Representative		contact district for # sets
	1	District Permits Specialist		
	1	District Real Estate Officer		
	1	District Design		
	1	District Traffic Operations Eng.		
	1	Envi. Sect. Fed. Permit Coord.		for permit determination
	1	Bridge Design Section		only if bridges required
	1	F.H.W.A.		NH System > $1 million
	1	Real Estate (Hdqtrs)		
	1	Environmental Section		
	1	DOTD Landscape Unit		
	1	Consultant		if applicable
	2	Parish Or City Government		Parishes Of Jeff., Plaq., EBR, Orleans, Caddo
	1	Highway Rail Safety Engineer	Title Sht., Typ Sec, P/P with R/R	only for R/R X-ings
	1	Planning Section	Plan-In-Hand Report Only	

Purpose	No. Of Sets	For	Sheets Needed	Remarks
Joint Plan Review	1	HQ Utility Section	Construction Plans and Base Right of Way Maps	
	1	District Utility Representative		
	1	Project Engineer		
	1	Real Estate Section		
	1	Location & Survey Section		
Final Right Of Way 100%	1	HQ Utility Section	Title Sht., P/P, Cross-Sec.	
	1	District Utility Representative		
	1	Project Engineer	Full Set & Cross-Sections	
	10	Real Estate Section	Full Set & Cross-Sections	
	1	Location & Survey Section	Title Sheet & P/P	
	1	Highway Rail Safety Engineer		for R/R X-Ings
	1	Parish Or City Governmental Agency		only if sewerage effluent is being discharged on hwy. R/W (sub-surface drainage projects)
	1	F.H.W.A.		NH System > $1 Million
	1	Environmental Section		
	1	Envi. Sect. Fed. Permit Coord.	Title Sht., P/P, Dr. Map	for permit determination
Revised Final Right Of Way	1	District Area Engineer	Title Sheet & Specific P/P	
	1	HQ Utility Section		
	1	Project Engineer		
	1	District Utility Representative		
	10	Real Estate Section		+ drainage, typicals, xsecs
	1	Location & Survey Section		
	1	Environmental Section		
	1	F.H.W.A.		NH System > $1 Million

Stage 3 Plan Review Distribution of Preliminary Plans

Purpose	No. Of Sets	For	Sheets Needed	Remarks
Drainage Check 60%	1	Hydraulics Section	All Information Requested	
	1	HQ Utility Section	Title Sht., Typ. Sec., P/P	sub-surface drainage projects
	1	District Utility Representative		
Geometric Review 60%	1	Geometric Design Engineer	Full Set	
	1	Road Design Section		
Advance Check Prints 95%	1	Project Engineer	Full Set & Cross-Sections	
	1	Construction Section (Hdqtrs)		
	1	Real Estate Section		
	1	F.H.W.A.		NH System > $1 Million
	1	District Construction Engineer	Full Set	
	1	District Utility Representative		
	1	District Permits Specialist		
	1	Road Design Section		
	1	Geotechnical Engineer		
	1	Traffic Engineering Management		for construction signing or signals
	1	Geometric Design Engineer		add set if permanent signing req'd
	1	Contracts & Specifications		
	1	Bridge Design Section		
	2	Environmental Section		1 for Permit Coordinator
	1	HQ Utility Section		
	1	Contracts Management	Title Sheet Only	
	1	Highway Rail Safety Engineer	Title Sht., Typ. Sec., P/P with R/R	only for R/R X-ings
Constructability Review 95%	1	District Area Engineer	review form distributed with ACP distribution	for constructability review
	1	Project Engineer		
National Pollution Discharge Elimination System (NPDES)	1	EPA	Notice Of Intent	
Storm Water Pollution Prevention Plan (SWPP)	1	Contracts & Specifications	Environmental Protection Special Provision	
Trainee Determination	1	Contracts & Specifications	Trainee Determination Form	
	1	Construction		
Final Plans for Signature	1 (original)	Chief Engineer	Plans and PS&E Checklist	
Final Signed Plans 100%	Singed original plan set is transmitted to General Files. Copy of the title sheet is transmitted to Project Control. The Real Estate, Location And Survey and HQ Utility sections as well as the District Administrator, District Area Engineer, Construction Engineer, Road Design Engineer and parish or governmental agency are advised by copies of the transmittal memorandum that final signed plans are sent to general files. Prints are furnished by general files on request.			
Change Order	1	HQ Utility Section	Title Sheet & Revised Sheets	
	1	Project Engineer		
	1	District Utility Representative		
	18	Construction Section (Hdqtrs)		
	1	F.H.W.A.		NH System > $1 Million
	10	Real Estate Section	Title Sht. & Revised P/P Shts.	only if R/W changed

PRELIMINARY PLAN PAYMENT MILESTONES

Payment Milestones	Task Status	Road Tasks	Bridge Tasks	Common Tasks
30 % Distribution	Completed	1. Plan/profile sheets with existing topo 2. Preliminary typical sections submitted for review 3. Title sheet 4. Typical section questionnaire distributed	1. Bridge hydraulic study and scour analysis 2. Type, Size & Location of Structure Set 3. Deep borings	1. Predesign criteria established 2. Horizontal & vertical alignment set
	In Progress	1. Preliminary typical sections being reviewed 2. Pavement Design 3. Soil borings and pH/resistivity data 4. Capacity analysis 5 Review utilities to remain	1. Superelevation diagram 2. Economic study (if appropriate)	1. Review utility locations and recommend those to stay in place
60% Distribution	Completed	1. Horizontal/vertical alignment on plan/profile sheets 2. Geometric details submitted for review 3. Hydraulic design submitted for review 4. Cross sections 5. Final typical section 6 Utility relocation recommendations	1. Preliminary design of substructure & 2. Foundation analysis 3. General Plan 4. Typical bridge sections	
	In Progress	1. Earthwork computations 2. Construction notes & details 3 Required right of way 4 Utility Company Coordination 5 Constructability Review	1. Span and bent details 2. Foundation layout	1. Sequence of construction & construction signing
90% Distribution	Completed	1. Geometric and hydraulic comments incorporated 2. Pre-plan in hand review 3 Required right of way 4 Utility company comments incorporated	1. Bridge quantities and general notes	1. Assemble plans 2. Cost estimate
	In Progress			1. Pre-plan in hand review
95 % Distribution	Completed			1. Plan in hand prints distributed
100 % Distribution	Completed			1. Plan in hand inspection and comments addressed 2. Right of way taking lines set and transmitted to Location and Survey 3. Permit sketches 4. Revised cost estimate

Figure 1-7 (Continued on next page)

FINAL PLAN PAYMENT MILESTONES

Payment Milestones	Task Status	Road Tasks	Bridge Tasks	Common Tasks
30 % Distribution	Completed	1. Submit final typical sections for review & approval	1. General plan 2. Framing plan 3. Superstructure design	
	In Progress	1. Review R/W maps 2. Finalizing hydraulic design 3. Finalizing vertical & horizontal geometry 4. Finalizing construction notes	1. Foundation layout 2. Lighting and signing design 3. Superstructure details 4. Substructure design	
60% Distribution	Completed	1. Submit for final drainage design review	1. Superstructure details 2. Substructure design 3. Foundation layout 4. Lighting and signing design	1. Submit for sequence of construction and
	In Progress	1. Summary sheets 2. Joint Layouts 3. Graphical grades	1. Substructure details 2. General notes 3. Summary of quantities	
90 % Distribution	Completed			1. Pre-ACP submitted for review prior to distribution
95 % Distribution	Completed			1. Advance Check Print distribution 2. Cost estimate
	In Progress			1. Special Provisions
98 % Distribution	Completed			1. ACP comments addressed 2. Final cost estimate 3. Entire set of original plan sheets transmitted to 4. Special provisions
100 %	Completed			1. Plans, Specifications & Estimate 2. Plans & Estimate transmitted to General Files

Figure 1-7 (Continued from previous page)

III. References

The information in this Documentation Manual for Project Delivery has been provided in accordance with the requirements of the following documents:

1. *Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17)*, prepared by Federal Highway Administration (FHWA). August 2011.

2. *Construction Plans Quality Control / Quality Assurance Manual,* prepared by Louisiana Department of Transportation and Development (LA DOTD). August 2008.

3. *Policy on Quality Control and Quality Assurance*, prepared by Louisiana Department of Transportation and Development (LA DOTD) Bridge Design Section. October 2012.

4. *Quality Control Plan – Large Project*, prepared by Volkert. April 2007.

IV. QC Documentation

The following example forms and checklists will be utilized by the design team to record the quality control reviews held and supporting file documentation.

Design Criteria Checklist

From LA DOTD Bridge Design Section QC/QA Policy

The design criteria have been provided in the *Preliminary Analysis and Verification Report*, in accordance with the checklist below

_ **Cover sheet**

The following information must be included on the cover sheet:

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

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

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

_ **Design Assumptions and Design Exceptions**

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

_ **General Information**

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

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

_ **Hydraulic Design Criteria**

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

_ **Design Factors**

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

_ **Design Loads**

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

_ **Limit States**

All applicable limit states for this project shall be listed in this section.

_ **Bridge Barrier**

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

_ **Guardrail**

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

_ **Approach Slab**

Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Deck and Deck Drainage**
All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Bearing**
All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Joint**
All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Superstructure**
All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Substructure**
All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Piles and Drilled Shafts**
All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.

_ **Geotechnical Design**
All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans and special details should be listed if they are utilized.

_ **Mechanical Design**
All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

_ **Electrical/Lighting Design**
All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

_ **As-Designed Bridge Rating Criteria**
All as-designed bridge rating criteria shall be included in this section.

_ **Software**
All software used for design and check shall be included in this section.

Quality Assurance / Quality Control Certification

State Project No. H.005121

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

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
EOR (Bridge)						
EOR (Roadway)						

V. QA Documentation

The following example forms and checklists will be utilized by the Quality Assurance team to record and document the results of the quality assurance audits of the projects.

SECTION 22:
SUBCONSULTANT INFORMATION

- WSP
- STV
- BURGESS
- BDI
- APS
- KTA

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22. Sub-consultant information:

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
WSP USA, Inc.	1100 Poydras Street, Suite 1175 New Orleans, LA 70163	Max Nassar, Vice President Senior Managing Director, Max.Nassar@wsp.com	225-218-3584
STV			
Burgess & Niple, Inc.	1511 N. Westshore Blvd. Suite 500 Tampa, FL 33607	Drew Appler, PE Drew.Appler@BurgessNiple.com	407-929-7846
Bridge Diagnostics, Inc. (BDI)	740 S. Pierce Ave, Unit 15 Louisville, CO 80027	Scott Aschermann scotta@bditest.com	303-494-3230
APS Engineering & Testing, LLC	1645 Nicholson Drive, Baton Rouge, LA 70802	Sergio Aviles, PE; sergio@aps-testing.com	225-456-5714
KTA	4001 7th Street North St. Petersburg, FL 33703	Greg R. Richards grichards@kta.com	727-453-9007 (cell)

SECTION 23:
LOCATION

- NOT REQUIRED FOR THIS SUBMITTAL

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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.

Not Required for this Submittal.

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