



LADOTD

IDIQ Contracts for Bridge Load Rating Services

Contract Numbers:

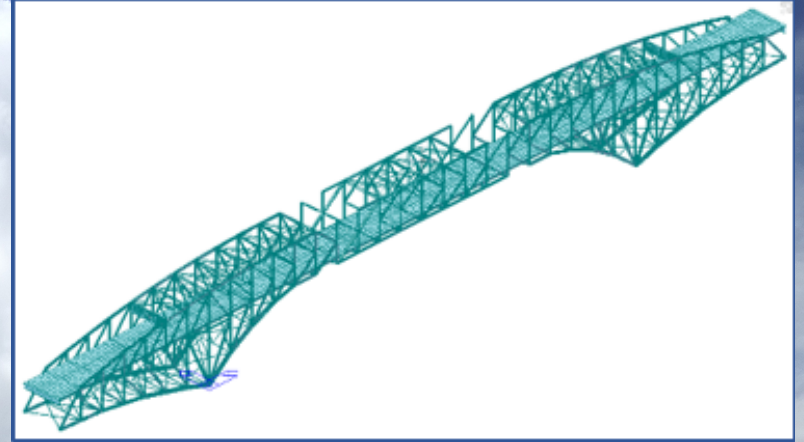
4400036211, 4400036212, 4400036213, and 4400036214

Date:

8/25/2026

Sections 1-15

IDIQ Contracts for
Bridge Load Rating
Services



IDIQ Contract for Bridge Load Rating Statewide, LA

WGI has load rated over 200 complex bridges and 1700 standard bridges for LADOTD. This extensive load rating experience enables our team to identify practical solutions to complex structural challenges that require refined analysis and advanced engineering methods.



DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised August 1, 2026)

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

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

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 Name as shown in the advertisement	IDIQ CONTRACTS FOR BRIDGE LOAD RATING SERVICES STATEWIDE
2. Contract Number(s) as shown in the advertisement	4400036211, 4400036212, 4400036213, and 4400036214
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; <u>include screenshot from SOS at the end of Section 20</u>)	WGI, INC.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF #0006303
6. Prime consultant mailing address	2820 Continental Drive, Suite 100 Baton Rouge, LA 70808
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	2820 Continental Drive, Suite 100 Baton Rouge, LA 70808
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Dr. Zhiyong "John" Liang, PE, 850.222.2737, John.Liang@wginc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Kimberlee DeBosier, PE, 813.833.6665, Kimberlee.Debosier@wginc.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 that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

Pursuant to Act #581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

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

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

Date:

8/25/2026





12. Discipline Table:

Discipline(s)	% of Overall Contract	WGI	Each Discipline must total to 100%
Bridge	100%	100%	100%
Identify the percentage of work for the <u>overall contract</u> to be performed by the prime consultant and each sub-consultant.			
Bridge Percent of Contract	100%	100%	100%

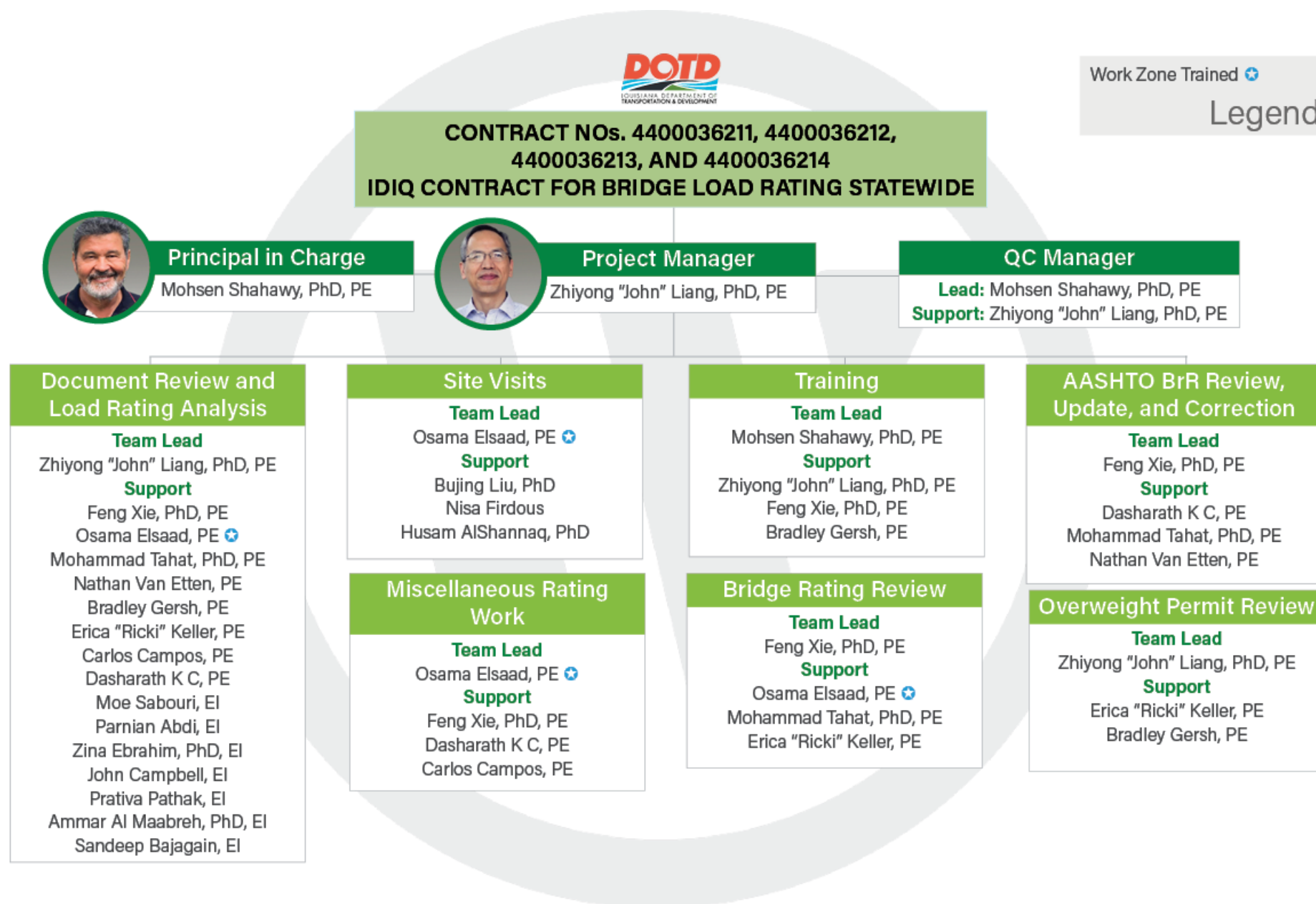


**13. Team Size:**

Firm name	DOTD Job Classification	Number of personnel <u>committed to this contract</u> *	Total number of personnel available in this DOTD Job Classification (if needed)
	Principal	1	2
	Supervisor - Eng	2	5
	Engineer	7	14
	Engineer Intern	7	12
	Inspector - Bridge	4	7
	CADD Drafter	1	3
	Computer Analyst	1	2
	Administrative	1	3



14. Organizational Chart:



15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License/certificat ion expiration date
1	Mohsen Shahawy, PhD, PE		PE.31465 - Civil	LA	03/31/2027
2					
3					
4	Zhiyong “John” Liang, PhD, PE		PE.34873 - Civil	LA	03/31/2028
	Feng Xie, PhD, PE		PE.43987 - Civil	LA	03/31/2028
5	Zhiyong “John” Liang, PhD, PE		PE.34873 - Civil	LA	03/31/2028
	Osama Elsaad, PE		PE.45668 - Civil	LA	09/30/2027
	Mohammad Tahat, PhD, PE		PE.49473 - Civil	LA	03/31/2027

Section 16

IDIQ Contracts for
Bridge Load Rating
Services



Load Test of Dragline Desoto Parish, LA

WGI has load tested more than 75 bridges for LADOTD, ranging from simple to complex structures. WGI has successfully supported the removal of the posting or improved the posting weight limit, helping LADOTD reduce rehabilitation costs and extend the serviceability of existing bridges.

16. Staff Experience:


Firm employed by: **WGI, INC.**

Name	Mohsen Shahawy, PhD, PE		Years of relevant experience with this employer	25	
Title	Principal in Charge		Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization			PhD / 1984 / Civil Engineering MS / 1981 / Civil Engineering BS / 1976 / Civil Engineering		
Active registration number/state/expiration date			PE.31465 / Louisiana / 03-31-2027		
Year registered	2004	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Meets MPR 1-3 Principal in Charge, Training, Quality Assurance/Quality Control (QA/QC)		
Dr. Shahawy has 40 years of experience and has published over 180 papers in the areas of prestressed/reinforced concrete performance, load and resistance factor design (LRFD) code issues related to shear performance, structural testing, evaluation, load testing, and load rating of bridges, dynamic behavior of bridges, and bridge rehabilitation. He is a co-author of the Prestressed Concrete Institute Bridge Design Manual. He has led WGI’s team (previously SDR) in developing the LADOTD Bridge Design and Evaluation Manual (BDEM) and the LG Girder Details and Design Standards. He has been responsible for the design of more than 90 bridges with spans ranging up to 280 feet, the production of conceptual reports for 40 bridges, and design peer reviews of more than 300 bridges for various authorities.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
10/14–Present	H.009859: Load Rating of Bridges, Statewide, LA Led many bridge load rating projects and rehabilitation of various bridge types, including concrete slabs, prestressed concrete girders, steel girders, steel trusses, and culverts. <u>Dr. Shahawy’s main responsibilities:</u> structural analysis, quality control review of finite element (FE) models, and independent peer reviews. Bridge load rating projects include: • H.009859.5: Load Rating of 300 On-System Bridges • H.009859.5: Load Rating of 72 Bridges • H.009859.5: Load Rating of 617 Bridges • H.009859.5: Load Rating of 114 Bridges • H.009859.5: Load Rating of 74 Bridges • H.009859.5: Load Rating of 50 Bridges • H.009859.5: Load Rating of 100 Bridges • H.009859.5: Load Rating of 125 Bridges				
03/17–06/26	Load Rating of Complex Bridges, Statewide, LA				



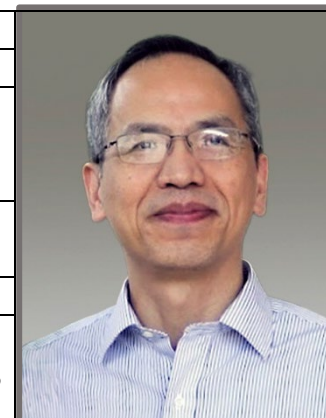
	Led many bridge rehabilitation and load rating projects of various complex bridge types, including truss, swing, lift, and pontoon bridges. <u>Dr. Shahawy's main responsibilities:</u> leading structural analysis, quality control review of FE models, and independent peer reviews. Movable bridge projects include: • Bridge #054360 (Steel Plate Girder Swing Span) • Bridge #058750 (Steel High Truss Swing Span) • Bridge #056430 (Steel Truss Swing Span) • Bridge #054480 (Ponton Span) • Bridge #000930 (Steel Tower Vertical Lift Span) • Bridge #200871 (Steel I-Beam Swing Span) • Bridge #200866 (Pontoon Span) • Bridge #020447 (Steel Plate Girder Bascule Span) • Bridge #200903 (Steel Plate Girder Swing Span) • Bridge #200877 (Steel Plate Girder Swing Span)
03/19-08/19	H.009859.5: Load Rating of 27 Complex Bridges, Statewide, LA The scope of work was to analyze and load rate 27 existing off-system bridge structures. The load rating was performed using AASHTOWare Bridge Rating (BrR) Software. The structure types consisted of swing bridges, pontoon bridges, and bascule bridges. <u>Dr. Shahawy's responsibilities were as follows:</u> • Project manager, lead engineer • Quality control review of all inspection reports and rating reports
03/10-05/12	H.005380.5: Evaluation and Load Rating of Three Major Truss Bridges, Statewide, LA This project was a complete evaluation and load rating of three major truss bridges, including the approach spans: Mississippi River Bridge at Vicksburg (4,210 feet), Sunshine Bridge at Donaldsonville (8,236 feet), and I-10 Calcasieu River Bridge at Lake Charles (6,617 feet). The bridges consisted of main steel truss spans, prestressed concrete or steel approach spans, and reinforced concrete or steel bent caps. <u>Dr. Shahawy's responsibilities were as follows:</u> Project manager & lead engineer; Quality control review of all inspection reports, structural assessment of found deficiencies and determining effect of steel section loss for both members and gusset plates on load rating; developing structural modeling parameters; and supervising the team developing the 3D FE model for the main truss using LUSAS; and load rating all elements of the truss spans.
06/86-10/00	Complex Bridge Design/Rating, Statewide, FL Design and load rating of complex bridges in Florida. Sample projects include: • Indian River, Vero Beach, FL, Bridge #880054 • Big Carlos Bridge (#120028), Lee County, FL • Oakland Boulevard, Fort Lauderdale, FL, Bridge #860941 • Longboat Bridge (#130057), Sarasota, FL • SR 706, Jupiter, FL, Bridge #930007 • Laurel Street Bridge (#105503), Tampa, FL <u>Dr. Shahawy's responsibilities were as follows:</u> Led the load rating and design analysis and guided the project team to address review comments at every stage.




Firm employed by: **WGI, INC.**

Name	Zhiyong “John” Liang, PhD, PE		Years of relevant experience with this employer	17
Title	Vice President		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization			PhD / 2008 / Civil Engineering MS / 2004-2005 / Civil Engineering-Computer Science BS / 1996 / Civil Engineering	
Active registration number/state/expiration date			PE.34873 / Louisiana / 03-31-2028 FHWA-NHI Bridge Inspection Training	
Year registered	2009	Discipline	Civil Engineering-Structures	
Contract role(s) / brief description of responsibilities			Meets MPR 4 & 5. Project Manager, QCQA, Bridge Load Rating, Training, Overweight Permit Review	





Dr. Liang specializes in inspection, design, load rating, and condition evaluation of steel and concrete bridges. He has served as both project manager and engineer of record on numerous successful projects involving bridge inspection, load rating, design, testing, and rehabilitation. With a multidisciplinary background in civil engineering and computer science, Dr. Liang brings a unique blend of structural engineering expertise, field experience, and technical innovation to bridge assessment projects. He is proficient in operating a wide range of bridge inspection and testing equipment, conducting advanced data analysis, and developing custom software tools to support bridge assessment and data management. Dr. Liang has a strong foundation in FE modeling and structural analysis, complemented by extensive hands-on experience at bridge sites. He played a key role as lead engineer in the development of the DOTD BDEM, contributing to statewide standards and practices. He is also certified through the FHWA-NHI Bridge Inspection Training Program and is qualified to serve as a bridge inspection manager and team leader.

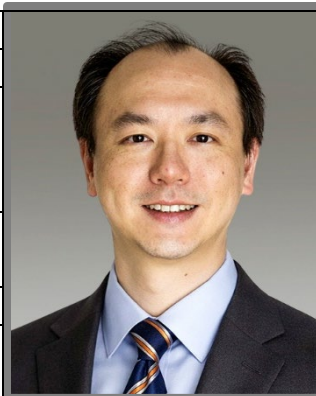
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/10–Present	Load Rating of Complex and Simple Bridges, Statewide, LA Lead the inspection and load rating of many complex bridges, including major truss bridges, swing bridges, lift bridges, pontoon bridges, tapered steel U-girder bridges, and bridges with special layouts such as flared girders or curved deck, etc. Most of the bridges required refined 3D FE modeling and/or special analysis to obtain the proper rating. <u>Dr. Liang’s responsibilities include:</u> Conduct field inspections, develop 3D FE models using MIDAS or LUSAS, review and refine load ratings, recommend repairs or strengthening, and prepare construction cost estimates. Bridge load rating projects include: • H.012485.5: Load Rating of 27 Complex Bridges • H.009859.5: Load Rating of 18 Complex Bridges • H.011484: US 80 Red River Bridge Texas Street Rehab (major truss bridge) • H.009859.5: Load Rating of 10 Truss Bridges • H.009859.5: Load Rating of 114 Bridges • H.012485.5: Load Rating of 176 Bridges • H.012485.5: Load Rating of 617 Bridges • H.009859.5: Load Rating of 300 On-System Bridges



	• H.009859.5: Load Rating of 72 Bridges
05/17-03/24	Evaluation and Load Testing, Statewide, LA The work consisted of plans review, planning, instrumentation, and conducting diagnostic and proof load testing. For each bridge, a comprehensive report was created, including the non-destructive testing (NDT) and load test results, load rating, and rehabilitation recommendations. <u>Dr. Liang's responsibilities were as follows:</u> planning all aspects and supervising the execution of each project task; conducting QA/QC; preparing load rating and final reports; preparing rehabilitation plans. Bridge load test projects include: • 4400017310: Task Order #8 NDT • H.012485.1: Load Testing and Evaluation of 19 Bridges • H.009859.5: Load Testing and Evaluation of Substructures of Five Bridges • H.009859.5: Evaluation and Load Testing of Substructure of Nine Bridges • H.009859.5: Evaluation and Load Testing of Five Posted Bridges • H.009859.5: Load Rating and Rehabilitation of LA 3094 Bridge Over KCS Railroad, Caddo Parish, LA • H.009730.5: Task Order #6: Load Testing and Evaluation of LA 3021 over Southern Railroad, New Orleans, LA
03/15-08/15	H.009859.5: Inspection and Load Rating of 18 Load-Posted Complex Bridges, Statewide, LA This project assessed 18 load-posted complex bridges on state-approved truck routes, with the ultimate goal of eliminating their current postings. Bridge types included truss bridges, movable bridges, and pontoon bridges. The scope included collecting and compiling all pertinent information, load rating using standard analysis, in-depth field investigation of the superstructures and substructures, analyzing and rating deficient structures using refined 3D FE modeling analysis, and providing a detailed evaluation report. <u>Dr. Liang's responsibilities included</u> overseeing project tasks and leading the bridge inspection, assessment, and load rating.
07/13-04/15	H.010498: Luling Bridge Rehabilitation, St. Charles Parish, LA The project was the evaluation and rehabilitation of the Luling Bridge (Hale Boggs Memorial Bridge), a five-span cable-stayed bridge with twin steel towers supporting the cables and a floor-beam-stringer deck system. <u>Dr. Liang's responsibilities were as follows:</u> • In-depth inspection of the bridge • Load rating of the main cable-stayed spans using 3D FE analysis • Investigation of the cause of fatigue cracks and development of rehab plans
03/10-05/12	H.005380.5: Evaluation and Load Rating of Three Major Truss Bridges, Statewide, LA This project was a complete evaluation and load rating of three major truss bridges, including the approach spans: Mississippi River Bridge at Vicksburg (4,210 feet), Sunshine Bridge at Donaldsonville (8,236 feet), and I-10 Calcasieu River Bridge at Lake Charles (6,617 feet). The bridges consisted of main steel truss spans, prestressed concrete or steel approach spans, and reinforced concrete or steel bent caps. <u>Dr. Liang's responsibilities were as follows:</u> • Determined the overall scope of the project and the major analysis methods/software to be used • Reviewed the inspection report and determined the effect of section losses and deficiencies on load rating • Built the FE model for the main truss and rated the truss members and gusset plates • Load rate the approach spans using VIRTIS; load rate the substructure using RC-Pier and spreadsheets • Write the final report and supervise the junior engineers




Firm employed by: **WGI, INC.**

Name	Feng Xie, PhD, PE		Years of relevant experience with this employer	11	
Title	Project Manager II		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			PhD/ 2026 / Civil Engineering MS / 2014 / Civil Engineering BS / 2012 / Civil Engineering		
Active registration number/state/expiration date			PE.43987 / Louisiana / 03-31-2028 FHWA-NHI Bridge Inspection Training		
Year registered	2019	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Meets MPR 4 Bridge Load Rater & Reviewer, Training		
Dr. Xie is a seasoned engineer with extensive experience in bridge inspection, structural analysis, load rating, rehabilitation design, and construction support. He oversees technical tasks and coordinates project delivery. He has managed and performed load ratings for hundreds of bridges statewide, including complex steel, concrete, truss, movable, and culvert structures, and has experience utilizing NDT methods. He brings strong technical expertise, quality control experience, and a practical approach to extending bridge service life.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/26–Present	H.009859.5: Load Rating of 72 Bridges, Statewide, LA This project involved the structural analysis and load rating of 72 bridges. The scope encompassed a diverse range of structures, including concrete slabs and deck girders, prestressed girders, steel I-beams and plate girders, box and pipe culverts, as well as movable bascule and swing spans. <u>Dr. Xie’s responsibilities are as follows:</u> • Manages project schedules, task assignments, and project progress • Conducts site visits to assess bridge conditions and collect relevant field information • Reviews bridge plans, inspection records, existing rating files, and other related documentation • Reviews load rating models, calculations, and reports; provides technical assistance to resolve issues • Reviews and prepares repair and strengthening recommendations				
08/25–Present	H.009859.5: Load Rating of 300 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, primarily cast-in-place and precast concrete culverts and metal culverts. Other structure types included segmental concrete box girders, prestressed concrete girders, reinforced slab and voided slab bridges, and steel beam bridges. <u>Dr. Xie’s responsibilities were as follows:</u> • Managed project schedules, task assignments, and project progress • Reviewed bridge plans, inspection records, existing rating files, and other available documentation • Reviewed load rating models, calculations, and reports; provided technical assistance to resolve issues • Prepared culvert load rating training materials				





	Updated the reinforced concrete pipe load rating Excel file and revised calculations to incorporate the latest specifications
10/15-06/26	Statewide Bridge Load Rating, Statewide, LA The work consisted of reviewing bridge plans and inspection records, assessing conditions, developing load rating models, providing repair and strengthening recommendations, and preparing load rating reports. <u>Dr. Xie's responsibilities included</u> managing project schedules and task assignments, developing and reviewing load rating models, and developing repair and rehabilitation recommendations. bridge load rating task orders include: 44-31060 Task Order # 2 (H.012485.5): Load Rating of 117 Off-System Bridges 44-21595 Task Order # 8 (H.009859.5): Load Rating of 32 Bridges 44-21595 Task Order # 7 (H.009859.5): Load Rating of 89 Bridges 44-27253 Task Order # 1 (H.009859.5): Load Rating and Information Collection of 45 Bridges 44-17310 Task Order # 7 (H.009859.5): Load Rating and Influence Line of 104 Bridges 44-21595 Task Order # 5 (H.009859.5): Load Rating of 114 Bridges 44-09423 Task Order # 11 (H.009859.5): Load Rating of 176 On-System Bridges 44-09423 Task Order # 2 (H.009859.5): Load Rating of 27 Complex Bridges - H.011484: US 80 Red River Bridge Texas Street Rehab (major truss bridge)
10/18-03/24	Evaluation and Load Testing, Statewide, LA The work consisted of document review, in-depth bridge inspection, NDT, instrumentation and load testing, structural analysis, rehabilitation design, and preparation of comprehensive reports and drawings. <u>Dr. Xie's responsibilities included</u> developing instrumentation plans; performing in-depth bridge inspections; conducting load tests; processing load test data; performing structural analysis and load rating; developing strengthening and rehabilitation plans; preparing and reviewing technical reports and drawings; and managing tasks, schedules, and project progress. Bridge load test projects include: 44-17310: Task Order #8 NDT - H.015352.5: US 190: US 61 Overpass Interior Repairs - H.015034: LA308 and 3162 MB RPRS (GLDN MDW and GALL) (HBI) - H.012485.1: Load Testing and Evaluation of 19 Bridges - H.009859.5: Evaluation and Load Testing of Five Posted Bridges - H.009859.5: Load Rating and Rehabilitation of LA3094 Bridge Over KCS Railroad - H.009730.5: Bridge Deck Evaluation using Ground Penetrating Radar - H.011487: LA 182 Berwick Bay Bridge Rehabilitation
07/19-06/21	H.012485.5: Load Rating of 617 Bridges, Statewide, LA This project consisted of the analysis and load rating of 617 different types of off-system bridges statewide. Bridge structures included timber spans, steel spans, and reinforced and prestressed concrete spans. <u>Dr. Xie's responsibilities were:</u> - Managed project schedules and task assignments for project engineers - Reviewed bridge plans, inspection records, and other relevant documentation - Prepared and reviewed bridge load rating models and reports - Performed quality control reviews of load rating work and provided technical guidance on complex rating issues




Firm employed by: **WGI, INC.**

Name	Osama Elsaad, PE		Years of relevant experience with this employer	10
Title	Project Manager II		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			ME / 2017 / Civil Engineering (Structural) BS / 2016 / Civil Engineering	
Active registration number/state/expiration date			PE.45668 / Louisiana / 09-30-2027 FHWA-NHI Bridge Inspection Training	
Year registered	2021	Discipline	Civil Engineering-Structures	
Contract role(s) / brief description of responsibilities			Meets MPR 5 Bridge Load Rater & Reviewer, Site Lead Inspector	





Osama is a structural engineer with 10 years of experience. His involvement in projects has included on-site inspection, bridge instrumentation and load testing, emergency bridge repair projects, bridge design, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation. He has been a lead and has managed multiple bridge design projects, bridge inspections, and bridge instrumentation and load testing. He has also completed the FHWA-NHI Bridge Inspection Training.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/25–Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place, precast concrete culverts, and metal culverts. <u>Osama’s responsibilities were as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, Mathcad, and MIDAS. Then produce in-depth reports to present load rating overview, results, and schematics. - Perform load tests of steel floorbeam-stringer systems, concrete slab, and steel girder bridges to improve or remove the posting limit. - Collect field measurements of bridges with missing plans - Collect rebar data of concrete structures with missing plans using ground penetrating radar (GPR) - Quality control of load rating models and reports to ensure accuracy and consistency throughout the project			
07/16–Present	Statewide Bridge Load Rating, Statewide, LA The work consisted of reviewing plans and inspection records, assessing conditions, developing load rating models, making repair or strengthening recommendations, and preparing load rating reports. <u>Osama’s responsibilities were as follows:</u> perform load rating of bridges using BrR, LEAP, Mathcad, and MIDAS; develop in-depth reports to present load rating overview, results, and schematics; quality control of load rating models and reports for other engineers to ensure accuracy and consistency throughout the project. Bridge load rating projects include: - H.009859.5: Load Rating of 72 Bridges - H.009859.5: Load Rating of 32 Bridges			





	• H.009859.5: Load Rating and Influence Line of 104 Bridges • H.009859.5: Load Rating of 114 Bridges • H.009859.5: Load Rating of 176 On-System Bridges • H.009859.5: Load Rating of 18 Complex Bridges • H.009859.5: Load Rating of 74 Bridges • H.009859.5: Load Rating of 100 Bridges
05/17-03/24	Evaluation and Load Testing, Statewide, LA The work consisted of plans review, planning, instrumentation, and conducting diagnostic and proof load testing. For each bridge, a comprehensive report was created, including the NDT and load test results, load rating, and rehabilitation recommendations. <u>Osama's responsibilities were as follows:</u> planning all aspects and supervising the execution of each project task; conducting QA/QC; preparing load rating and final reports; preparing rehabilitation plans. Bridge load test projects include: • 4400017310: Task Order #8 NDT • H.012485.1: Load Testing and Evaluation of 19 Bridges • H.009859.5: Load Testing and Evaluation of Substructures of Five Bridges • H.009859.5: Evaluation and Load Testing of Substructure of Nine Bridges • H.009859.5: Evaluation and Load Testing of Five Posted Bridges • H.009859.5: Load Rating and Rehabilitation of LA 3094 Bridge Over KCS Railroad, Caddo Parish, LA • H.009730.5: Task Order #6: Load Testing and Evaluation of LA 3021 over Southern Railroad, New Orleans, LA
07/19-06/21	H.009859.5: Load Rating of 617 Bridges, Statewide, LA The scope of work was to analyze and load rate 617 existing off-system bridge structures. The load rating was performed using AASHTOWare BrR. The load rating consisted of concrete slab spans, steel spans, concrete girder spans, pile bents, and hammerhead piers. <u>Osama's responsibilities were as follows:</u> • Review the as-built drawings to determine the appropriate load rating method and assumptions for the analysis. • Perform load rating of bridges using BrR, LEAP, Mathcad, and MIDAS. Then produce in-depth reports to present load rating overview, results, and schematics. • Perform field inspections • Collect field measurements of bridges with missing plans • Collect rebar data of concrete structures with missing plans using GPR • Quality control of load rating models and reports to ensure accuracy and consistency throughout the project
03/19-08/19	H.009859.5: Load Rating of 27 Complex Bridges, Statewide, LA The scope of work was to analyze and load rate 27 existing off-system bridge structures. The load rating was performed using AASHTOWare BrR. The structure types consisted of swing bridges, pontoon bridges, and bascule bridges. <u>Osama's responsibilities were as follows:</u> • Performed load rating analysis of complex bridges using AASHTOWare BrR • Developed in-depth reports to present load rating overview, results, and schematics • Reviewed load rating reports




Firm employed by: **WGI, INC.**

Name	Mohammad Tahat, PhD, PE		Years of relevant experience with this employer	3	
Title	Project Manager II		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			PhD / 2023 / Civil Engineering MS / 2019 / Civil Engineering BS / 2015 / Civil Engineering		
Active registration number/state/expiration date			PE.49473/ Louisiana / 03-31-2027		
Year registered	2024	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Meets MPR 5 Bridge Load Rater & Reviewer		
Dr. Tahat is a structural engineer with three years of experience focusing on on-site inspection, bridge instrumentation & load testing, bridge repair projects, bridge design, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation. He has contributed to numerous projects involving load rating analysis and reporting, with experience across a wide range of structures, including concrete, steel, truss, and other complex bridge systems.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25–Present	H.009859.5: Load Rating of 300 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete culverts and metal culverts. <u>Dr. Tahat’s responsibilities are as follows:</u> • Performs load rating of concrete bridges, steel bridges, and culverts, including truss bridges, swing spans, railroad flat car bridges, and curved steel bridges • Load rating of complex bridges using 3-D finite element modeling and specialized analyses to determine accurate ratings and prepare load rating reports • QC of load rating models and reports for other engineers to ensure accuracy and consistency throughout the project				
08/23–Present	Statewide Bridge Load Rating, Statewide, LA The work consists of reviewing plans and inspection records, assessing conditions, developing load rating models, making repair or strengthening recommendations, and preparing load rating reports. <u>Dr. Tahat’s responsibilities are as follows:</u> perform load rating of bridges using BrR, LEAP, Mathcad, and MIDAS; develop in-depth reports to present load rating overview, results, and schematics; QC of load rating models and reports for other engineers to ensure accuracy and consistency throughout the project. Bridge load rating projects include: • H.012485.5: Load Rating of 117 Off-System Bridges • H.009859.5: Load Rating of 32 Bridges • H.009859.5: Load Rating and Influence Line of 104 Bridges • H.009859.5: Load Rating of 114 Bridges				





	• H.009859.5: Load Rating of 89 Bridges • H.009859.5: Load Rating of 45 Bridges, Statewide, LA
7/24-Present	H.010015 LA 143 Bayou D'Arbonne Bridge, Ouachita Parish, LA Scope of work is to design and develop a new bridge to replace the existing bridge over Bayou D'Arbonne. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete LG-45 girders with a total bridge length of 500 feet. <u>Dr. Tahat's responsibilities are as follows:</u> • Design the substructure • Design the sheet piles • Design plan development • QA/QC review of bridge design plans
07/25-11/25	I-20 Over Lake Shore Drive and KCS Railroad – Phase I, Caddo Parish, LA Scope of work is to evaluate and develop a rehabilitation scope of work for four existing bridges carrying I-20 over Lake Shore Drive and KCS Railroad. The project consists of performing detailed bridge inspections, load rating analyses, and developing rehabilitation recommendations as part of Phase I. The work includes evaluating both superstructure and substructure elements in accordance with LADOTD guidelines. <u>Dr. Tahat's responsibilities are as follows:</u> • Conduct site inspections to assess existing bridge conditions • Perform load rating analysis for concrete and steel bridge components • Evaluate rehabilitation alternatives and develop scope recommendations • Prepare quantities for proposed rehabilitation work • Develop construction cost estimates
8/23–12/23	Job Number 44-17310: Bridge Testing, Statewide, LA The four bridges are posted for a load less than Louisiana State Legal Loads. This project consisted of load tests for these bridges. Load tests combined with detailed three-dimensional Finite Element Analysis revealed that these bridges can carry higher loads than those estimated by design codes (MBE, AASHTO, and BDEM). <u>Dr. Tahat's responsibilities and tasks were:</u> • Modeling the bridge with detailed three-dimensional Finite Element Analysis (3-D model) using MIDAS software. • Analyzing the field data and predicting the behavior of the deficient member. • Prepare the load testing report
06/21–08/23	Statewide Bridge Load Testing, & Load Rating, Statewide, NE The scope of work included load testing and load rating for various state and local bridge structures across Nebraska. The project involved slab bridges, multi-span prestressed concrete girders, and steel beam bridges, requiring compliance with AASHTO LRFD specifications and NDOT Bridge Design Manual Guidelines. <u>Mr. Tahat's responsibilities and tasks were:</u> • Evaluated load ratings using Midas civil, BrR, Mathcad, and Bentley Applications. • Perform 2D/3D structural analysis and superstructure for load testing purposes. • Executed on-site sensor installation, data acquisition setup, and load test truck positioning.




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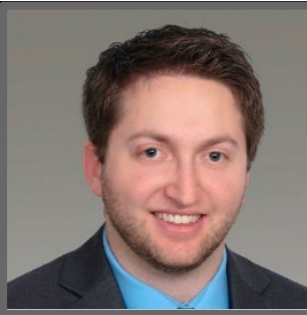
Name	Nathan Van Etten, PE		Years of relevant experience with this employer	8	
Title	Market Leader – Alternative Delivery		Years of relevant experience with other employer(s)	11	
Degree(s) / Years / Specialization			MS / 2008 / Structural Engineering BS / 2006 / Civil Engineering		
Active registration number/state/expiration date			PE.51556 / Louisiana / 09-30-2026		
Year registered	2026	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Nathan is a bridge engineer with experience in the design of horizontal bridge structures and vertical buildings. Bridge structure experience includes the following bridge types: segmentally erected concrete box girders, steel box girders, steel plate girders, prestressed concrete beams, and reinforced concrete flat slabs.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/25-02/26	SR 865 (San Carlos Boulevard) from Estero Boulevard to CR 869 (Summerlin Road), Lee County, FL, Florida Department of Transportation (FDOT) District 1 The design effort included coordination with the FDOT Structural Design Office and FDOT District 1 staff to meet all FDOT and the National Cooperative Research Program criteria. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project reconfigured existing travel lanes to provide two inbound lanes to the beach and pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguring the lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Due to multiple municipal agencies involved, an extensive public involvement effort was performed for the Town of Fort Myers Beach, Lee County, and Lee-Tran. The design of this project was coordinated with a concurrent project development and environmental study conducted by FDOT District 1 staff. <u>Nathan’s responsibilities and tasks were as follows:</u> designed the proposed lightweight steel TL-4 railing retrofit to improve pedestrian access over Matanzas Pass.				
04/24-10/25	Western Beltway (SR 429) Resurfacing and Safety Improvements from MP 1.9 to 5.5, Osceola County, FL, Florida’s Turnpike Enterprise The project consisted of completing final design plans and construction specifications for the resurfacing and safety improvements of the Western Beltway (SR 429) in Osceola County. The project design scope incorporated roadway design activities, including typical section package and variation and exception report development, pavement rehabilitation calculations, signing and pavement marking upgrades and replacement, drainage structure modifications and repairs, structural analysis for new signs and miscellaneous structures, highway lighting upgrades and retrofits, and upgrading existing intelligent transportation systems (ITS) infrastructure. WGI was responsible for roadway, drainage, signing and pavement marking design, lighting and plans production, structures design and plans production, environmental permitting, utility coordination, subsurface utility exploration (SUE), and survey and mapping services. <u>Nathan’s responsibilities and tasks were as follows:</u> served as project structural engineer who performed design calculations and structural details.				



08/23-10/25	SR 429 (Wekiva Parkway) Section 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5 This project designed and constructed 5.5 miles of new alignment limited-access toll road, mainly along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included realigning SR 46 as a non-tolled service road for local travel parallel to the Wekiva Parkway. The project constructed three new 2,000-foot-long bridges over the Wekiva River, one of only two federally listed National Wild and Scenic Rivers in Florida. Three wildlife crossing bridges, 5,700 feet in total, were constructed to provide safe passage for animals between Seminole State Forest and Rock Springs Run State Reserve. Portions of the old SR 46 and CR 46A roadbeds were demolished, regraded, and replanted to create natural conditions conducive to wildlife usage. A new public entrance road was designed and permitted for the Rock Springs Run State Reserve. A multi-use trail runs the full length of the project, with overlook areas incorporated into the wildlife crossing bridges. Other services included mainline all-electronic toll gantry site design, reconfiguring local connector roads between remaining sections of CR 46A and SR 46, drainage design and stormwater permitting through the Florida Department of Environmental Protection (FDEP), lighting, ITS, signing and pavement markings, utility coordination, and 68 gopher tortoise relocations. The design-build team used 13 alternative technical concepts to reduce impacts on traffic during construction, improve constructability and efficiency to expedite construction, reduce environmental impacts, and enhance safety without compromising ecological and project requirements and commitments. Wekiva Parkway Section 6 received the 2023 American Council of Engineering Companies (ACEC)-Florida Engineering Excellence Grand Award and the prestigious 2023 ACEC Engineering Excellence National Recognition Award. <u>Nathan's responsibilities and tasks were as follows:</u> served as the lead engineer for the single-span tolling gantry over both directions of travel.
02/21-03/23	SR 60 at 80 Foot Road, Polk County, FL, FDOT District 1 As part of District 1's design-build pushbutton contract, this task designed safety improvements to mitigate crashes at the intersection of SR 60 and 80 Foot Road in Polk County. Elements of work included new mast arm signalization, signal timing design, intersection lighting, and signing and marking. Additional services required for this task included topographic survey, SUE, utility coordination, and geotechnical investigation. All improvements were designed and constructed in 365 days. <u>Nathan's responsibilities and tasks were as follows:</u> served as the lead structures design engineer.
05/19-08/21	Sawgrass Expressway Corridor Review, Broward County, FL, Florida's Turnpike Enterprise WGI was tasked with evaluating and independently reviewing the active design projects to widen the Sawgrass Expressway (SR 869) from south of Sunrise Boulevard to south of US 441/SR 7 in Broward County, Florida. The evaluation identified cost-saving strategies, ensured corridor design consistency, assessed constructability and construction sequencing, and mitigated project risk elements. Additionally, WGI reviewed prior value engineering studies, cost risk assessments, current design plans, and long-range estimates. WGI then held interim and final briefings with Florida's Turnpike Enterprise design and management staff, providing recommendations to the design consultant teams for consideration. <u>Nathan's responsibilities and tasks were as follows:</u> served as the lead structures design engineer.




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Name	Bradley Gersh, PE		Years of relevant experience with this employer	8	
Title	Project Manager II		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			MS / 2019 / Civil Engineering BS / 2013 / Civil Engineering		
Active registration number/state/expiration date			PE.51525 / Louisiana / 09-30-2026		
Year registered	2026	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater, Overweight Permit Review		
Bradley is a professional engineer with over 14 years of experience who continues to take on increasingly challenging engineering assignments. Bradley has served as project manager, lead engineer, and engineer of record for highway and bridge structures, including prestressed concrete girder bridges, overhead sign structures, culverts, and mast arm projects. His responsibilities include designing and preparing contract plans, specifications, and estimates, bridge as-design load rating assessments, and CADD design on transportation structure projects.					
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/20-08/26		I-10 Widening from I-295 to I-95 Design-Build, Duval County, FL, FDOT District 2 This project involved widening I-10 from west of I-295 to I-95 from a six-lane divided urban interstate to a 10-lane divided urban interstate. The project widened 11 bridges and replaced the Cedar River bridge culvert under I-10 and the eastbound off-ramp at Lane Avenue with a three-barrel 10-foot by 10-foot bridge culvert. Bridge #11 passes over the CSX railroad, which required additional coordination. The project included final load ratings for the 11 completed bridges both in design and for the as-built condition. A refined analysis was required for the existing beams to meet the load and resistance factor rating (LRFR) requirements for some of the bridges. The existing bridges consisted of different sections built in different years with special beams and various material properties and strand patterns. Additional structural components included constructing mechanically stabilized earth walls, replacing the pedestrian culvert under I-10 at Day Avenue, and miscellaneous structural design. <u>Bradley’s responsibilities and tasks were as follows:</u> Responsible for bridge substructure/foundation design, culvert design, overhead sign structure design, plan production, as-designed load rating, and post-design services			
07/14-10/18		I-75 Express Lanes Segments A and B, Broward County, FL, FDOT District 4 The superstructure design comprised two steel twin box girders, an 8.5-inch structural concrete deck, and a 115-foot-long straddle box girder bent. The project included final load ratings for the completed bridges both in design and for the as-built condition. Bradley developed a successfully approved cost-saving initiative for ramp H-4/H-12. Ramp H-5 is a single-span, skewed bridge, comprised of 78-inch Florida I-beams supported on pile end bents. Segment A and B, the largest and most complex segment of the 75 express lane project covering 3.1 miles from NW 170th Street to south of Miramar Parkway, included constructing express lanes in the existing I-75 median, 2.6 miles of reconstruction, widening, and other interchange ramp connections and improvements.			



	<u>Bradley's responsibilities and tasks were as follows:</u> • Responsible for plan development and CADD design drawings for MSE walls, superstructure, substructure, and post-design services for ramp H-5. • Structural designer responsible for developing CADD design drawings, as well as superstructure design and plan development of ramp H-4/H-12. Ramp H-4/H-12 is a three-span, 595-foot-long bridge with a 30-foot roadway width. • As-designed load rating,
02/14-10/18	I-75 Express Lanes Segment C, Broward County, FL, FDOT District 4 The project included final load ratings for the completed bridges both in design and for the as-built condition. This design-build delivery project included constructing express lanes in the existing median; constructing entrance and exit ramps for the express lanes at various locations; constructing a bridge over I-75 at Pembroke Road; reconstructing Miramar Parkway Interchange; installing sound barrier walls; drainage, signage, lighting, and landscaping; upgrading traffic monitoring cameras, dynamic message signs, and installing toll gantries. Part of the 15-mile I-75 Express Lanes project that extends across Miami-Dade and Broward Counties, Segment C is a 3.6-mile-long segment located south of Miramar Parkway to south of Sheridan Street in Broward County. <u>Bradley's responsibilities and tasks were as follows:</u> responsible for developing CADD design drawings for superstructure, as-designed load rating, substructure designs, plan development, and post-design services for Segment C of the I-75 Express Lanes project at Miramar Parkway and Pembroke Road.
03/22-08/26	SR 23 (FCE Phase 2) from East of CR 16A (Spur) to East of CR 209 (Shands), Clay County, FL, FDOT District 2 This \$600M design-build project extended the First Coast Expressway (SR 23) through St. Johns and Clay Counties, featuring a new four-lane toll road and a partial cloverleaf interchange at CR 16A Spur. The centerpiece is a 9,300-foot-long bridge over the St. Johns River, replacing the Shands Bridge with a 65-foot vertical clearance for maritime traffic and integrated pedestrian overlooks. The project included final load ratings for the completed bridges in design. WGI's design refinements, including three alternative technical concepts, eliminated over 1,000 in-water piles and 11,000 truckloads of fill, saving tens of millions of dollars while accelerating the construction schedule. <u>Bradley's responsibilities and tasks were as follows:</u> served as the engineer of record for the two bridges over CR 16A Spur and the lead engineer responsible for producing the contract plans, as-designed load rating, and design calculations of bridges B1-B4 and miscellaneous structures along SR 23.
10/18-12/24	Homestead Extension of Florida's Turnpike (HEFT) (SR 821) Widening from SR 836 to NW 106th Street, Miami-Dade County, FL, Florida's Turnpike Enterprise The project consisted of completing final design plans and construction specifications for widening the HEFT from south of SR 836 (Dolphin Expressway) to Northwest 106th Street to 10 lanes, including the incorporation of express lanes. The project included the design and inclusion of the ultimate HEFT/SR 836 interchange, incorporating all movements to and from the two expressway facilities, including direct connections to the HEFT express lanes to and from the west, and incorporation of a new northbound entry ramp at Northwest 41st Street from Northwest 117th Avenue. The project design included roadway, drainage, stormwater management, signing and pavement marking, structures, toll gantries and facilities, ITS, lighting, environmental permitting, landscape architecture, utility coordination, SUE, and survey and mapping. The structural scope included numerous Florida I-Beam bridge widenings and additional curved steel flyovers at the SR 836/HEFT interchange. <u>Bradley's responsibilities and tasks were as follows:</u> responsible for bridge substructure/foundation design, plans production, as-designed load rating, and post-design services.




Firm employed by: **WGI, INC.**

Name	Erica “Ricki” Keller, PE		Years of relevant experience with this employer	9	
Title	Senior Engineer I		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			MS / 2019 / Civil Engineering - Structures BS / 2016 / Civil Engineering BA / 2014 / Physics		
Active registration number/state/expiration date			PE.51596 / Louisiana / 09-30-2026		
Year registered	2026	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater & Reviewer		
Ricki is a bridge designer with knowledge in both preliminary bridge planning and final design. Her bridge design experience includes prestressed concrete beams and reinforced concrete flat slabs for new bridges and bridge widenings. In addition to her design skills, she has extensive experience preparing production plans and 3D models for FDOT projects. Her project experience ranges from direct connection flyover ramps to local municipal projects throughout Florida, and she is also well-versed in the design of traffic signal structures, including strain poles and mast arms.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/18-10/18	SR 580/North Dale Mabry Highway at CR 584/West Waters Avenue Pedestrian/Bike Intersection Safety, Hillsborough County, FL, FDOT District 7 This FDOT District 7 safety improvement project upgraded pedestrian and bicycle safety at one of Hillsborough County’s highest pedestrian crash intersections by adding pedestrian refuge islands, modifying turn lanes, upgrading existing diagonal span-wire signals, and improving signing, pavement markings, controller assemblies, and clearance timing intervals. The project also included utility coordination and SUE to identify conflicts and coordinate utility work schedules and plans. <u>As Engineer, Ricki's responsibilities were as follows:</u> - Coordinated with traffic signal engineers - Performed design calculations for steel strain pole box span assembly - Supported pedestrian safety, signal, signing, pavement marking, and utility coordination improvements				
07/19-12/25	North Sunlake Boulevard from Ridge Road to SR 52 Roadway Development, Pasco County, FL, Florida’s Turnpike Enterprise The 4.5-mile new roadway includes a two-lane divided urban curb-and-gutter section expandable to four and six lanes, bicycle lanes, sidewalk, multi-use path, communications easement, one roundabout, and SR 52 turn lane improvements. 11 bridge structures were designed to cross designated wetlands while minimizing impacts, with concrete Florida-I Beams supported by concrete intermediate bents on 24-inch prestressed piles and substructures designed for scour. <u>As Engineer, Ricki's responsibilities were as follows:</u> - Led plan production for roadway and bridge plan sets - Performed superstructure and substructure design calculations for proposed bridges				





03/20-12/25	Widen Turnpike Extension North of Campbell Drive to Tallahassee Road, Miami-Dade County, FL, Florida's Turnpike Enterprise The project involved widening the Turnpike Extension of Florida's Turnpike from Campbell Drive to north of Tallahassee Road to six lanes with incorporated managed lanes, ramp improvements, a new northbound entry ramp, off-system improvements, complete street elements, bridge widenings, noise barriers, signing and pavement marking, signals, lighting, and ITS infrastructure upgrades. <u>As Engineer of Record, Ricki's responsibilities were as follows:</u> • Performed load ratings for existing bridges • Assisted with load rating reports and bridge development reports • Served as bridge plan production lead and engineer of record for one bridge site
06/21-Current	North Sunlake Boulevard - Phase II Engineering Services, Pasco County, FL, Florida's Turnpike Enterprise The project widened the existing Phase I roadway from two lanes to a four-lane divided urban curb-and-gutter section expandable to six lanes, with bicycle lanes, sidewalk, multi-use path, communications easement, and several roundabout intersections. The team widened 10 of the 11 existing Phase I bridge structures to add a five-foot sidewalk, with bridges designed and detailed to FDOT specifications and AASHTO LRFD. <u>As Engineer, Ricki's responsibilities were as follows:</u> • Led bridge and roadway plan production • Performed superstructure and substructure design calculations • Supported bridge widening design to FDOT and AASHTO LRFD standards
06/19-12/2025	SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL, FDOT District 1 The project improved the main access to Fort Myers Beach by milling and resurfacing one mile of roadway, reconfiguring lanes to add bicycle facilities, modifying Matanzas Pass Bridge to expand sidewalk into a barrier-protected shared-use path, and reconfiguring Hurricane Pass Bridge to improve pedestrian access. The project also included intersection improvements, FDEP permitting, lighting, ITS, signalization, advanced traffic management systems fiber extension, CCTV coverage, and wildlife-sensitive lighting. <u>As Engineer, Ricki's responsibilities were as follows:</u> • Performed capacity calculations for existing bridge substructure • Verified pile loads for widened bridge alternative




Firm employed by: **WGI, INC.**

Name	Carlos Campos, PE		Years of relevant experience with this employer	11	
Title	Project Manager II		Years of relevant experience with other employer(s)	10	
Degree(s) / Years / Specialization			MS / 2013 / Structural Engineering BS / 2009 / Civil Engineering AS / 2005 / Civil Engineering Technology		
Active registration number/state/expiration date			PE.51711 / Louisiana / 03-31-2027		
Year registered	2026	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater & Reviewer		
Carlos has experience with state, county, municipal, and private sector contracts, delivering conventional, design-build, and construction manager at-risk projects. His expertise includes quality control, cost estimating, and contract negotiations. He has served as engineer of record on structural designs including prestressed concrete and steel bridges, bridge load ratings, retaining walls, culverts, boardwalks, boat ramps, and buildings. He also has extensive knowledge of CAD, plan production, and structural and roadway design.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
10/19- Current	I-10 Widening from I-295 to I-95 Design-Build, Duval County, FL, FDOT District 2 This project involved widening I-10 from west of I-295 to I-95 from a six-lane divided urban interstate to a 10-lane divided urban interstate. Twelve bridges were widened, plus the Cedar River bridge culvert under I-10 and the eastbound off-ramp at Lane Avenue was replaced with a three-barrel 10-foot by 10-foot bridge culvert. Additional structural components include the construction of MSE walls, replacement of the pedestrian culvert under I-10 at Day Avenue, and miscellaneous structural design. <u>Carlos’ responsibilities and tasks were as follows:</u> serves as the structural engineer of record for three concrete beam bridge widenings (I-10 over Nelson Avenue, Cassat Avenue, and US 17) and associated MSE walls. Responsibilities included construction plans production, bridge design calculations, and as-built load rating analysis.				
06/2015 – 04/20	HEFT (SR 821) Widening from SR 836 to Northwest 106th Street, Miami-Dade County, FL, Florida's Turnpike Enterprise This project consisted of completion of final design plans and construction specifications for widening of the HEFT from south of SR 836 (Dolphin Expressway) to Northwest 106th Street to 10 lanes, including the incorporation of express lanes. The project included design and inclusion of the ultimate HEFT/SR 836 interchange incorporating all movements to and from the two expressway facilities, including direct connections to the HEFT express lanes to and from the west, and incorporation of a new northbound entry ramp at Northwest 41st Street from Northwest 117th Avenue. The structural scope included numerous Florida I-Beam bridge widenings and additional curved steel flyovers at the SR 836/HEFT interchange. <u>Carlos’ responsibilities and tasks were as follows:</u> served as the structural engineer of record for two concrete flat slab bridges (Ramp C1 and C2 over Snapper Creek). Responsibilities included construction plans production, bridge design calculations, and as-built load rating analysis.				





06/16 – 12/25	SR 429 (Wekiva Parkway) Segment 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5 This project designed and constructed 5.5 miles of new alignment limited-access toll road, largely along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included realigning SR 46 as a non-tolled service road for local travel running parallel to Wekiva Parkway. The project constructed three new 2,000-foot-long bridges over the Wekiva River – one of only two federally listed National Wild and Scenic Rivers in Florida. Three wildlife crossing bridges – 5,700 feet in total – were constructed to provide safe passage for animals between Seminole State Forest and Rock Springs Run State Reserve. <u>Carlos’ responsibilities and tasks were as follows:</u> Served as the structural engineer of the three wildlife crossing bridges on SR 429. Responsibilities included construction plans production, bridge design calculations, and as-built load rating analysis.
03/12 – 06/16	Turnpike Mainline Widening with Express Lanes from Osceola Parkway to the Beachline Expressway, Orange County, FL, Florida's Turnpike Enterprise This project consisted of the widening with express lanes of Florida’s Turnpike from Osceola Parkway to the Beachline Expressway and the final three ramp movements at the Turnpike/SR 417 interchange. The Turnpike and SR 417 interchange included the new Ramp A2 and C2 flyovers and two mainline toll gantries. Both flyovers consist of a nine-span steel box girder superstructure supported on aesthetic hammerhead concrete piers. Ramp A2 flyover is a 1,882-foot Category II/third level bridge that crosses over Town Center Boulevard, Turnpike Mainline, and SR 417 with a maximum span of 270.4 feet. Ramp C2 flyover is a 1,715-foot-long Category II/third level bridge with skewed independent column piers for the unit over SR 417 to accommodate a future widening project. <u>Carlos’ responsibilities and tasks were as follows:</u> Served as a quality control reviewer for the A2 and C2 Bridges. Responsibilities included the quality control of construction plans production, bridge design calculations, and as-built load rating analysis.
07/16 – 04/17	Main Street (US 17) over Hogans Creek Emergency Design-Build, Duval County, FL, FDOT District 2 Carlos’ responsibilities included Jacksonville Electric Authority utility plans, repair of existing buck-head, and unforeseen void remediation. WGI delivered the emergency replacement of the concrete structure carrying Main Street over Hogan's Creek in downtown Jacksonville. The project included a new bridge structure, milling and resurfacing, signing and pavement marking, drainage design, utility relocation, and vibration monitoring. Historic architectural features attached to the existing structure were removed, rehabilitated, and attached to the new structure to maintain the existing aesthetics of the site. This project won the 2018 Design-Build Institute of America National Award. <u>Carlos’ responsibilities and tasks were as follows:</u> quality control of construction plans production, bridge design calculations, and as-built load rating analysis.




Firm employed by: **WGI, INC.**

Name	Dasharath K C, PE		Years of relevant experience with this employer	3	
Title	Structural Engineer		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			MS / 2023 / Civil Engineering (Structural) BE / 2021 / Civil Engineering		
Active registration number/state/expiration date			EI.35873/ Louisiana / 03-31-2027 PE.104411/ Florida / 02-28-2027		
Year registered	2024	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater & Reviewer		
Dasharath is a bridge engineer, with a strong focus on bridge design, rehabilitation, load rating, inspection, and load testing. He has contributed to design and rehabilitation efforts, including planning for the rehabilitation and replacement of bridges and working on bridge design projects. Dasharath has also gained experience in load rating, having worked on the load rating of steel and concrete bridges, and has supported bridge inspections. Additionally, he has been involved in load testing, quality control, and reporting for various bridge projects. Dasharath holds a master's degree in Structural Engineering from the University of Toledo, with research focused on FRP-strengthening of steel beams through 3D FE analysis.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25-Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of this project is to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place, precast concrete culverts, and metal culverts. <u>Dasharath’s responsibilities were as follows:</u> • Perform load ratings of bridges using BrR, LEAP, Mathcad, and MIDAS and produce comprehensive reports presenting load-rating methodologies, results, and schematics • Review existing LADOTD concrete pipe load-rating files and provided recommendations for updating them • Develop methods for load rating of arch and elliptical pipe culverts • Quality control of load rating models and reports for other engineers to ensure accuracy and consistency throughout the project				
05/2024-Present	Statewide Bridge Load Rating, Statewide, LA The work consists of plan review, planning, load rating, and rehabilitation recommendations. For each bridge, a comprehensive report is prepared that includes load ratings and rehabilitation recommendations. <u>Dasharath’s responsibilities are as follows:</u> Load rating of concrete and steel bridges with steel, concrete, and timber pile foundations; reviewed load ratings prepared by EIT I engineers; performed consistency checks of structural models and reports. • H.009859.5: TO #1: Load Rating of 72 Bridges • H.012485.5: Load Rating of 117 Off-System Bridges • H.009859.5: Load Rating of 32 Bridges • H.009859.5: TO #7: Load Rating of 89 Bridges				





04/24-10/25	Evaluation and Load Testing, Statewide, LA The work consisted of plans review, planning, instrumentation, and conducting diagnostic and proof load testing. For each bridge, a comprehensive report was created, including the NDT and load test results, load rating, and rehabilitation recommendations. <u>Dasharath's responsibilities were as follows:</u> Instrumentation, load testing, analyzing and reporting. • 876100 Indian Creek Bridge, Miami-Dade County, FL • Load Testing of Bridge 052860 over I-110, Baton Rouge, LA
04/24-08/25	Inspection of I-20 bridge over Mississippi River, Vicksburg, MS US 190 Truss Inspection over Mississippi River, Baton Rouge, LA Contract 5 for Movable Bridges HDR, LA These projects involved the inspection and evaluation of bridges. <u>Dasharath's responsibilities were as follows:</u> • Inspection of concrete, steel, and truss bridges • Load rating of steel and concrete Bridges
07/24-12/24	Wilson Island Bridge, Lake County, FL H.010015 LA 143 Bayou D'Arbonne Bridge The scope of work was to provide bridge design services. The design work was limited to the structural design of both the superstructure and substructure and did not include survey, geotechnical design, or roadway design. <u>Dasharath's responsibilities were as follows:</u> • Reinforcement quantity calculation • Superstructure and substructure detailing, bent elevation computation • Assisted in preparation of computation books
04/24- 06/24	H.012541: LA 594 Bridge over I-20, Monroe, LA The scope of work was to provide feasibility study services (Stage 0) for rehabilitation/replacement of the bridge at LA 594 over I-20 in Monroe, Louisiana. It included reviewing existing documents, conducting a site visit, and evaluating bridge conditions, traffic, and environmental impacts. The scope included determining rehabilitation or replacement options, such as deck replacement or steel repairs, and providing a construction cost estimate. <u>Dasharath's responsibilities were as follows:</u> • Developed construction sequencing for deck replacement • Prepared title sheets, typical cross sections, and general plan drawings
08/23-12/23	DGL Consulting Engineers, Toledo, OH <u>Dasharath's responsibilities were as follows:</u> • Performed bridge load rating and assisted in creating bridge inspection reports for prestressed concrete bridges, slab bridges, steel girder bridges, and truss bridges. • Performed structural analysis and design of walls and buildings and detailing
09/21-07/22	Engineering Helpline Pvt. Ltd, Kathmandu, Nepal <u>Dasharath's responsibilities were as follows:</u> • Performed building design, retaining wall design, road layout design, site survey, estimation, and valuation • Site/field engineer for Aautar-Kagune three km road project: bridge construction, retaining wall and drainage construction, pile culverts and causeway construction




Firm employed by: **WGI, INC.**

Name	Moe Sabouri, EI		Years of relevant experience with this employer	3	
Title	Engineer Intern		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			MASc / 2021 / Civil Engineering (Structural) BS / 2016 / Civil Engineering		
Active registration number/state/expiration date			EI.1100027412 / Florida / 01-11-2027		
Year registered	2024	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Moe is an engineer intern with over three years of experience in bridge engineering. His current work consists of bridge design/rehabilitation, analysis, load rating evaluation, bridge inspection, load testing, and preparation of quantity/cost estimates. He is also involved in conducting NDT and evaluating load testing data. He is experienced in load rating and analysis of concrete bridges, steel bridges, timber bridges, concrete culverts, and metal culverts. He has also assisted in developing and reviewing reports.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25–Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place, precast concrete culverts, and metal culverts. <u>Moe was responsible for assisting with:</u> • Training the team on load rating concrete culverts. • Reviewing as-built drawings and standard plans of concrete culvert structures. • Reviewing load rating models and analyses of concrete culverts in AASHTOWare BrR. • Reviewing concrete culvert hand calculations in Excel and Mathcad. • Reviewing in-depth reports to present load rating overview and results.				
03/25–06/26	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 117 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, concrete and metal culverts, and pile bents. <u>Moe’s responsibilities were assisting with:</u> • Reviewing as-built drawings and standard plans of the bridge structure. • Performing load rating of bridges using AASHTOWare BrR, LEAP Bridge Concrete, and Mathcad. • Preparing in-depth reports to present load rating overview and results.				
09/24–05/26	H.009859.5: Load Rating of 89 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 89 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, concrete and metal culverts, and pile bents. <u>Moe’s responsibilities were assisting with:</u> • Reviewing as-built drawings and standard plans of the bridge structure.				





	- Performing load rating of bridges using AASHTOWare BrR, LEAP Bridge Concrete, and Mathcad. - Preparing in-depth reports to present load rating overview and results.
07/24–09/24	H.009730.5: TO#3: US-80 Texas Street over Red River Bridge, Shreveport, LA This bridge consisted of an 884-foot main truss span, (6) 103-foot approach deck truss spans, an 81-foot steel girder span, and (35) 24 foot to 51-foot reinforced concrete deck girder spans. The scope of this project was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and LADOTD Bridge Inspection Manual. <u>Moe was responsible for assisting with:</u> - Compiling and reviewing the field inspection notes. - Calculating the quantities. - Organizing the inspection photos and photo log. - Reviewing and uploading the inspection notes and quantities to InspectX.
05/24–07/24	H.009730.5: TO#3: I-20 over Mississippi River Bridge, Vicksburg, MS This bridge consisted of a 1,716-foot main truss span, (3) 426-foot approach truss spans, (3) 127-foot steel girder spans, (3) 170-foot two-girder system spans, a 360-foot composite steel girder span, and (101) 60-foot and 80-foot prestressed concrete girder spans. The scope was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. <u>Moe was responsible for assisting with:</u> - Compiling and reviewing the field inspection notes. - Calculating the quantities. - Organizing the inspection photos and photo log. - Reviewing and uploading the inspection notes and quantities to InspectX.
12/23–04/24	H.009859.5: Load Rating of 45 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 45 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, and pile bents. <u>Moe's responsibilities were assisting with:</u> - Reviewing as-built drawings and standard plans of the bridge structure. - Performing load rating of bridges using AASHTOWare BrR, LEAP Bridge Concrete, and Mathcad. - Preparing in-depth reports to present load rating overview and results.
07/23–11/23	H.009730.5: TO#1: LA 3213 over Mississippi River Bridge, Gramercy, LA This bridge consisted of a 3,012-foot main truss span, a 628-foot three-span continuous two-girder system span, a 901 foot three-span continuous two-girder system span, (33) 106-foot and 130-foot prestressed concrete girder spans. The scope of this project was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and LADOTD Bridge Inspection Manual. <u>Moe's responsibilities were assisting with:</u> - In-depth review of as-built plans. - Preparing inspection drawings and calculating the quantities of the structural elements.




Firm employed by: **WGI, INC.**

Name	Parnian Abdi, EI		Years of relevant experience with this employer	4	
Title	Engineer Intern		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			MS / 2021 / Civil Engineering BS / 2019 / Civil Engineering		
Active registration number/state/expiration date			EI.35314 / Louisiana / 03-31-2027		
Year registered	2022	Discipline	Civil Engineering, Land Surveying		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Parnian is an engineer with over four years of experience specializing in bridge load rating, structural evaluation, and load testing of highway bridges. She has completed load rating analyses for numerous concrete and steel bridge structures, including reinforced concrete, prestressed concrete, and structural steel bridges, using AASHTO LRFR methodologies. Her experience includes developing analytical models, evaluating bridge load-carrying capacity, preparing technical reports, and recommending repair and rehabilitation strategies. She has also contributed to bridge load testing projects through analytical modeling, data evaluation, and interpretation of test results, as well as bridge inspection and condition assessment.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25–Present	H.009859.5: Load Rating of 300 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete culverts and metal culverts. <u>Parnian’s responsibilities are as follows:</u> • Review as-built drawings to determine the appropriate load rating methodology and analytical assumptions. • Perform bridge load ratings using AASHTOWare BrR and prepare in-depth technical reports presenting load rating assumptions, results, and schematics. • Perform load test analysis for a bridge within the project scope, including FE modeling, interpretation of field measurement results, analytical load rating calibration, and preparation of the final load test report.				
03/25-06/26	H.012485.5: Load Rating of 117 Off-System Bridges, Statewide, LA The scope of the project included the analysis and load rating of 117 bridges statewide per AASHTO and LADOTD codes. <u>Parnian's responsibilities were as follows:</u> • Review of as-built drawings or standard plans of the bridge structure. • Performed load rating of bridges using AASHTOWare BrR, LEAP, and Mathcad. • Prepared in-depth reports to present load rating overview, results, and schematics.				
05/24-08/25	H.009859.5: Load Rating of 86 Bridges, Statewide, LA The scope of this project was to evaluate and load rate a variety of bridge structures, including cast-in-place and precast concrete culverts, reinforced and prestressed concrete bridges, steel girder bridges, and steel floorbeam-girder systems. <u>Parnian's responsibilities were as follows:</u>				



	• Review of as-built drawings or standard plans of the bridge structure. • Performing load rating of bridges using AASHTOware BrR, LEAP, and Mathcad. • Preparing in-depth reports to present load rating overview, results, and schematics.
02/24-05/24	4400017310: Task Order #8 NDT, Statewide, LA The scope of this project was to perform a bridge load test and calibrate the analytical load rating using field test results. <u>Parnian's responsibilities were as follows:</u> • Develop FE models for load test analysis. • Perform conventional bridge load ratings. • Calibrate analytical load rating models using bridge load test results. • Prepare comprehensive technical reports documenting the analyses and final evaluation.
08/23-02/24	H.009859.5: Load Rating of 45 Bridges, Statewide, LA The scope of the project was to evaluate and load rate 45 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, and pile bents. <u>Parnian's responsibilities were as follows:</u> • The load rating of deteriorated steel spans using AASHTOware BrR. • Prepared the rehabilitation plans, including the plan and profiles using MicroStation.
05/23-08/23	H.015409: Rehabilitation of I-10 Bridge Over Mississippi River, LA The scope of the project was to review the as-built plans and inspection reports provided by LADOTD, conduct a site visit to verify and quantify the deterioration, perform 3D FE analysis for spans with web cracking to determine the local stress concentration, and provide repair recommendations. <u>Parnian's responsibilities were as follows:</u> • The load rating of deteriorated steel spans using AASHTOware BrR. • Prepared the rehabilitation plans, including the plan and profiles using MicroStation.
07/22-06/23	H.009859.5: Load Rating of 114 Bridges, Statewide, LA The scope of the project was to evaluate and load rate 114 bridge structures located in the state of Louisiana. The load rating consisted of concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, and pile bents. <u>Parnian's responsibilities were as follows:</u> • Review of as-built drawings or standard plans of the bridge structure. • Performed load rating of bridges using AASHTOware BrR, LEAP, and Mathcad. • Prepared in-depth reports to present load rating overview, results, and schematics.




Firm employed by: **WGI, INC.**

Name	Zina Ebrahim, PhD, EI		Years of relevant experience with this employer	0	
Title	Senior Engineer Intern		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			Ph.D. / 2026 / Construction Engineering and Management ME / 2019 / Civil Engineering (Structural) BS / 2016 / Civil Engineering		
Active registration number/state/expiration date			EI.36302 / Louisiana / 09-30-2026		
Year registered	2026	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Dr. Ebrahim is a structural engineer with three years of experience. Her involvement in projects has included load rating evaluation, rehabilitation projects, and engineering report preparation. Her work focuses on assessing existing bridge conditions, analyzing structural performance, and developing effective rehabilitation solutions. She brings a strong analytical background, supporting projects from evaluation through documentation.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
5/26-Present	H.009859.5: Load Rating of 72 Bridges, Statewide, LA Scope of work is to perform load rating of 72 existing bridge structures by the LRFR method. The project consists of conducting plan and document review, in addition to performing structural analysis and load rating, and preparing rating/ analysis reports. <u>Dr. Ebrahim’s responsibilities are as follows:</u> Perform load rating and prepare rating reports.				
4/26-Present	H.014281: US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA Scope of work is to repair and rehabilitate the US 190 Bridge over the Mississippi River (Recall #051880) to address structural deficiencies identified in the most recent inspection report. <u>Dr. Ebrahim’s responsibilities are as follows:</u> - Prepare framing plan including repair locations. - Prepare repair details and procedures. - Prepare estimated quantities.				
1/26-Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA Scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting plan and document review, performing structural analysis and load rating, preparing rating/analysis reports, providing repair/ strengthening methods and sketches as needed, and conducting training on culvert load rating. <u>Dr. Ebrahim’s responsibilities are as follows:</u> - Review the load rating procedure of concrete pipe culverts. - Prepare instrumentation plans for load tests. - Prepare repair details for previously posted bridges. - Perform load rating and prepare rating reports.				




Firm employed by: **WGI, INC.**

Name	John Campbell, EI		Years of relevant experience with this employer	1	
Title	Engineer Intern I		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2025 / Civil Engineering		
Active registration number/state/expiration date			EI.36055 / Louisiana / 09-30-2027		
Year registered	2025	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
John is a bridge engineer with a focus on load rating evaluation for bridges. He currently serves as an engineer intern and is involved in the load rating of bridges and culverts.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
5/26–Present	H.009859.5: Load Rating of 72 Bridges, Statewide, LA Scope of work is to perform load rating of 72 existing bridge structures by the LRFR method. The project consists of conducting plan and document review, in addition to performing structural analysis and load rating, and preparing rating/analysis reports. <u>John’s responsibilities are as follows:</u> • Prepare repair details for previously posted bridges. • Perform load rating and prepare rating reports.				
1/26–Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA Scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting plan and document review, performing structural analysis and load rating, preparing rating/analysis reports, providing repair/strengthening methods and sketches as needed, and conducting training on culvert load rating. <u>John’s responsibilities are as follows:</u> • Prepare repair details for previously posted bridges. • Perform load rating and prepare rating reports.				
07/25–04/26	H.009859.5: Load Rating of 32 Bridges, Statewide, LA Scope of work is to perform load rating of 32 existing bridge structures by the LRFR, relative to the following project. <u>John’s responsibilities are as follows:</u> • Prepare repair details for previously posted bridges. • Perform load rating and prepare rating reports.				
03/25 – 06/26	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA Scope of work is to perform load rating of 117 existing bridge structures by the LRFR. <u>John’s responsibilities are as follows:</u> • Prepare repair details for previously posted bridges. • Perform load rating and prepare rating reports.				




Firm employed by: **WGI, INC.**

Name	Prativa Pathak, EI		Years of relevant experience with this employer	1	
Title	Engineer Intern		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			M. Sc / 2025/ Civil Engineering (Structural) BE / 2022 / Civil Engineering		
Active registration number/state/expiration date			EI.36202 / Louisiana / 03-31-2028		
Year registered	2025	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Prativa is a structural engineer with a year of experience. Her involvement in projects has included load rating evaluation, bridge repair and rehabilitation projects, and load test projects.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/26–Present	H.009859.5: Load Rating of 72 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 72 bridge structures located in the state of Louisiana. The load rating was performed using AASHTOWare BrR. The load rating was performed on a variety of bridge structures, involving concrete slab spans, steel spans, and concrete girder spans. <u>Prativa’s responsibilities are as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics.				
10/25–Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed using AASHTOWare BrR. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete culverts and metal culverts. <u>Prativa’s responsibilities are as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, Mathcad, and MIDAS. Then produce in-depth reports to present load rating overview, results, and schematics. - Evaluate load test data of steel girder bridges to improve or remove the posting limit. - Produce in-depth reports to present load test overview, results, and schematics.				
03/25–06/26	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 117 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, concrete and metal culverts, and pile bents. <u>Prativa’s responsibilities were as follows:</u> - Reviewed as-built drawings and standard plans of the bridge structure. - Performed load rating of bridges using AASHTOware BrR, LEAP Bridge Concrete, and Mathcad. - Prepared in-depth reports to present load rating overview and results.				




Firm employed by: **WGI, INC.**

Name	Ammar Al Maabreh, PhD, EI		Years of relevant experience with this employer	1	
Title	Senior Engineer Intern		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			PhD / 2025/ Construction Engineering and Management ME / 2018 / Civil Engineering (Structural) BS / 2015 / Civil Engineering		
Active registration number/state/expiration date			EI.36090 / Louisiana / 09-30-2027		
Year registered	2025	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Dr. Al Maabreh is a structural engineer with one year of experience in bridge engineering and structural evaluation. His project involvement has included bridge load testing, load rating evaluations, bridge repair projects, and rehabilitation projects. His work focuses on assessing existing bridges. conditions, analyzing structural performance, and supporting the development of practical rehabilitation and maintenance solutions. Ammar has experience preparing technical documentation and inspection-related reports, and he brings a strong analytical background to projects from evaluation through final documentation.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25- Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/analysis reports, providing repair/strengthening methods and sketches as needed, and conducting training on culvert load rating. The project also included instrumentation, load testing, analysis, and reporting for floor beams, stringers, and concrete slabs. <u>Dr. Al Maabreh’s responsibilities are as follows:</u> • Instrumentation and field load testing • Developing load rating models and reports • FE analysis • Load test analysis and reports • Supporting rehabilitation recommendations and project documentation.				
04/26-Present	H.014281: US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA The scope of work is to repair and rehabilitate the US 190 Bridge over the Mississippi River (Recall #051880) to address structural deficiencies identified in the most recent inspection report. <u>Dr. Al Maabreh’s responsibilities are as follows:</u> • Prepare framing plan including repair locations. • Prepare repair details and procedures.				





05/25- 11/25	4400021517 Movable Bridges HDR, Statewide, LA The scope of work was to inspect, quantify quantities, perform load rating, and develop an inspection and load rating report with repair recommendations for five movable bridges as a subconsultant. <u>Dr. Al Maabreh's responsibilities were as follows:</u> • Prepared inspection and load rating reports • Evaluated structural conditions • Supported project documentation and rehabilitation recommendations.
03/25–06/26	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 117 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, concrete and metal culverts, and pile bents. <u>Dr. Al Maabreh's responsibilities were as follows:</u> • Reviewed as-built drawings and standard plans of the bridge structure. • Performed load rating of bridges using AASHTOWare BrR, LEAP Bridge Concrete, and Mathcad. • Prepared in-depth reports to present load rating overview and results.
06/25-04/26	H.009859.5: Load Rating of 32 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 32 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete slab bridges. <u>Dr. Al Maabreh's responsibilities were as follows:</u> • Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. • Performed load rating of bridges using AASHTOWare BrR, LEAP Bridge Concrete, and Mathcad. • Prepared in-depth reports to present load rating overview and results.




Firm employed by: **WGI, INC.**

Name	Sandeep Bajagain, EI		Years of relevant experience with this employer	1	
Title	Engineer Intern		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			MSCE / 2025 / Civil Engineering (Structural) BE / 2022 / Civil Engineering		
Active registration number/state/expiration date			EI.36141 / Louisiana / 03-31-2028		
Year registered	2025	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge Load Rater		
Sandeep is a structural engineer with one year of experience. His involvement on projects has included bridge instrumentation and load testing, rehabilitation projects, and load rating evaluation projects.					
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/26–Present		H.009859.5: Load Rating of 72 Bridges, Statewide, LA The scope of this project is to evaluate and load rate 72 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete slab bridges and prestressed concrete girder bridges. <u>Sandeep’s responsibilities are as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics. - Collect field measurements of bridges with missing plans. - Collect rebar data of concrete structures with missing plans using GPR.			
4/26–Present		H.014281: US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA Scope of work includes repairing and rehabilitating the US 190 Bridge over the Mississippi River to address structural deficiencies identified in the most recent inspection report. <u>Sandeep’s responsibilities are:</u> Preparing rehabilitation design plans of different deficient steel members.			
08/25–Present		H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place, precast concrete culverts, and metal culverts. <u>Sandeep’s responsibilities are as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics. - Perform load tests of bridges to improve or remove the posting limit. - Collect field measurements of bridges with missing plans.			

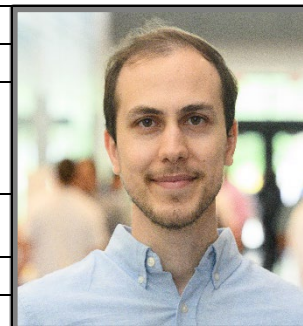




	• Collect rebar data of concrete structures with missing plans using GPR.
06/25-06/26	H.012485.5: Load Rating of 117 Off-System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 117 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete slab bridges. <u>Sandeep's responsibilities were as follows:</u> • Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. • Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics. • Collect field measurements of bridges with missing plans. • Collect rebar data of concrete structures with missing plans using GPR.
06/25-04/26	H.009859.5: Load Rating of 32 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 32 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete slab bridges. <u>Sandeep's responsibilities were as follows:</u> • Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. • Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics.




Firm employed by: **WGI, INC.**

Name	Husam AlShannaq, PhD		Years of relevant experience with this employer	1	
Title	Engineer Intern		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization			Ph.D. / 2025 / Civil Engineering M.Sc. / 2024 / Civil Engineering B.S. / 2019 / Mechanical Engineering		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Site Visit Investigation		
Husam is an engineer with experience in bridge load rating, bridge rehabilitation, structural analysis, repair plan preparation, and engineering reporting. His involvement in projects has included review of bridge plans and inspection records, preparation of load rating calculations and rating documentation, preparation of CADD for repairs and deficiency documentation, and documentation of structural distress projects.					
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "performed load rating", "prepared repair plans", "prepared engineering reports", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/26-Present	H.009859.5: Load Rating of 72 Bridges, Statewide, LA The scope of this project includes load rating of bridge and culvert structures for the LADOTD. The load rating was performed using AASHTOWare BrR. <u>Husam's responsibilities are as follows:</u> - Develop load rating models and calculations for bridge and culvert structures. - Prepare rating documentation, calculation sheets, and load rating report materials. - Review model inputs and rating results for consistency with project criteria.				
06/26-Present	Dura-Stress Professional Services Agreement The scope of this project includes engineering reporting for bridge distress and crack documentation. <u>Husam's responsibilities are as follows:</u> - Prepare engineering reports documenting observed bridge distress and crack conditions. - Review inspection information and project records to document condition findings and technical conclusions. - Develop report narratives and exhibits for professional services deliverables.				
05/26-Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA The scope of this project includes statewide load rating of bridge structures for the LADOTD. The load rating was performed using AASHTOWare BrR. <u>Husam's responsibilities are as follows:</u> - Perform structural analysis and consistency checks of load rating calculations and results. - Prepare rating documentation and calculations for bridge and culvert structures.				
04/26-Present	H.014281: US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA The scope of this project includes bridge rehabilitation and repair plan preparation for the US 190 Bridge over the Mississippi River.				





	<u>Husam's responsibilities are as follows:</u> • Prepare bridge rehabilitation and repair CADD work, including plan sheets, framing plans, traffic control plans, repair details, and deficiency location sheets. • Develop defect and deficiency tables using inspection information and repair requirements. • Review project records and repair needs to document bridge deterioration and rehabilitation requirements.
04/26-06/26	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA The scope of this project includes load rating of off-system bridge structures for the LADOTD. The load rating was performed using AASHTOWare BrR. <u>Husam's responsibilities were as follows:</u> • Review bridge plans, inspection reports, and rating factors to prepare load-rating documentation. • Prepare CADD work and rating package documentation using field measurements and inspection data. • Evaluate rating information and document rating conclusions for project records and submittals.
2022-2026	Graduate Research Assistant, Louisiana State University, Baton Rouge, LA The work consisted of structural research, computational analysis, experimental testing, and technical documentation related to fatigue behavior and structural performance. <u>Husam's responsibilities were as follows:</u> • Conduct fatigue and structural performance studies for composite materials and structural components under cyclic and wind loading. • Develop numerical models and analyze fatigue life, stress response, and structural behavior under varying loading conditions. • Prepare research documentation, technical presentations, and publication materials summarizing methods, results, and conclusions.




Firm employed by: **WGI, INC.**

Name	Nisa Firdous		Years of relevant experience with this employer	2	
Title	Engineer Intern		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			ME / 2024 / Civil Engineering (Structural) BS / 2022 / Civil Engineering		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Site Visit Investigation		
Nisa is an engineer intern with two years of experience in bridge engineering. Her project involvement includes bridge and culvert load rating, structural analysis, bridge inspection reports, rehabilitation evaluations, quantity calculations, and technical report preparation. She has experience using BrR, LEAP Bridge Concrete, MicroStation, Mathcad, and Excel to evaluate reinforced concrete, prestressed concrete, steel, and culvert structures.					
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/25–Present		H.009859.5: Load Rating of 300 Bridges On-System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete culverts and metal culverts. <u>Nisa’s responsibilities are as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics. - Collect as-built plans of bridges and determine the geometry of bridges. - Review bridge inspection reports, field measurements, and underwater inspection data to verify structural conditions and identify deficiencies affecting load-carrying capacity. - Review the latest bridge inspection reports and verify that the required load rating checks have been performed for each bridge.			
03/26–Present		H.009859.5: Load Rating of 72 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 72 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures. <u>Nisa’s responsibilities are as follows:</u> - Review as-built drawings to determine the appropriate load rating method and assumptions for the analysis. - Perform load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics. - Collect as-built plans of bridges and determine geometry of bridges.			





04/26-06/26	H.014281: US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA Scope of work is to repair and rehabilitate the US 190 Bridge over the Mississippi River (Recall #051880) to address structural deficiencies identified in the most recent inspection report. <u>Nisa's responsibilities were as follows:</u> • Reviewed bridge inspection notes and identified recurring structural defects and maintenance concerns. • Grouped similar deficiencies by defect type, location, and structural component to support an organized evaluation. • Coordinated inspection information from multiple records to improve consistency and support repair planning.
03/25-Present	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 117 off-system bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures. <u>Nisa's responsibilities were as follows:</u> • Reviewed as-built drawings to determine the appropriate load rating method and assumptions for the analysis. • Performed load rating of bridges using BrR, LEAP, and Mathcad. Then produce in-depth reports to present load rating overview, results, and schematics. • Collected as-built plans of bridges and determine the geometry of bridges.




Firm employed by: **WGI, INC.**

Name	Bujing Liu, PhD		Years of relevant experience with this employer	2
Title	Senior Engineer Intern		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			PhD / 2018-2023 / Civil Engineering (Structural) MS / 2009-2012 / Civil Engineering (Structural) BS / 2002-2006 / Civil Engineering (Structural)	
Active registration number/state/expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Site Visit Investigation	
Dr. Liu specializes in load ratings of steel, timber, concrete bridges and culverts, and load testing of steel culverts. He has served as both Bridge engineer and research assistant on numerous successful projects involving bridge and culvert load rating and testing. Dr. Liu has accumulated rich technical experience in load rating concrete slab bridges, concrete prestressed girder bridges, timber bridges, curved steel bridges, steel girder bridges, steel movable bridges, and various culverts through industrial work. Dr. Liu’s previous academic research focused on load rating metal culverts through instrumentation, field testing, advanced 2D and 3D FE analyses, and simplified theoretical solutions.				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/24 – Present	H.009859.5: Load Rating of 72 Bridges, Statewide, LA Scope of work is to evaluate the carrying capacity of 72 various bridges under truck loads required by LADOTD and provide LADOTD with standard form of reports involving the rating results of both super and sub structures and propose repair and strengthening methods and sketches as needed. <u>Dr. Liu’s responsibilities are as follows:</u> • Load rate pipe culverts, steel movable bridges, steel girder bridges, and concrete prestressed girder bridges through AASHTOWare BrR, LEAP, Mathcad, and CANDE. • Generate rating reports based on analytical results from software. • Provide repair suggestions as needed. • Review load rating models and reports for other engineers to ensure accuracy and consistency throughout the project.			
08/25- Present	H.009859.5: Load Rating of 300 On-System Bridges, Statewide, LA Load rate 300 bridges in Louisiana state and provide LADOTD with rating reports involving the load rating results of both super and sub structures and propose repair and strengthening methods and sketches as needed. <u>Dr. Liu’s responsibilities are as follows:</u> • Develop a tutorial for load rating metal culverts based on the latest DOTD BDEM. • Load rate curved steel girder bridges through AASHTOWare BrR, LEAP, Mathcad, and CANDE. • Generate rating reports based on analytical results from software. • Provide repair suggestions as needed. • Guide other engineers to load rate the culverts and review their work. • Review load rating models and reports for other engineers to ensure accuracy and consistency throughout the project.			







07/25–06/26	H.012485.5: Load Rating of 117 Off-System Bridges, Statewide, LA Load rate 117 bridges in Louisiana and provide LADOTD with rating reports involving the load rating results of both super and sub structures and propose repair and strengthening methods and sketches as needed. <u>Dr. Liu’s responsibilities were as follows:</u> • Load rate pipe culverts, concrete slab bridges, concrete prestressed girder bridges, steel movable bridges, and timber bridges through AASHTOWare BrR, LEAP, Mathcad, and CANDE. • Generate rating reports based on analytical results from software. • Provide repair suggestions as needed. • Review load rating models and reports for other engineers to ensure accuracy and consistency throughout the project.
08/25–04/26	H.009859.5: Load Rating of 32 Bridges, Statewide, LA Load rate 32 bridges in Louisiana and provide LADOTD with rating reports involving the load rating results of both super and sub structures and propose repair and strengthening methods and sketches as needed. <u>Dr. Liu’s responsibilities were as follows:</u> • Load rate steel I-beam bridges through AASHTOWare BrR, LEAP, and Mathcad. • Generate rating reports based on analytical results from software. • Provide repair suggestions as needed.
08/18–05/23	Load Rating for Corrugated Metal Culverts under Willow Cover Depths, AL The accuracy and applicability of existing methodologies and tools for load rating of corrugated metal culverts under willow cover were thoroughly investigated through numerical modeling and field testing. The basis of three existing spreadsheet rating tools was investigated. Two existing culverts that are more than 80 years old and whose cover over the crown is significantly less than current design and construction requirements were instrumented and load tested. The test data was then used to improve the accuracy of the analytical rating factors using the approach defined in the AASHTO Manual for Bridge Evaluation. The plane strain FE program CANDE, which was developed specifically for culvert analysis and design and is widely used, plus two general-purpose FE software, Abaqus and Plaxis, were extensively employed to understand the soil-structure interaction phenomena and assess culvert rating methodology. Recommendations for addressing the deficiencies of the existing “simplified” spreadsheet tools for low cover situations were developed and incorporated into a new spreadsheet-based tool.



Section 17

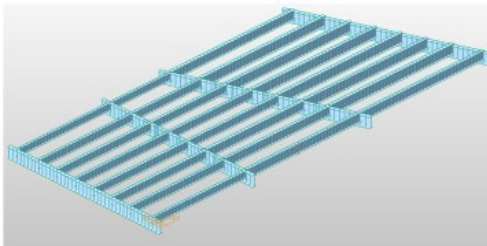
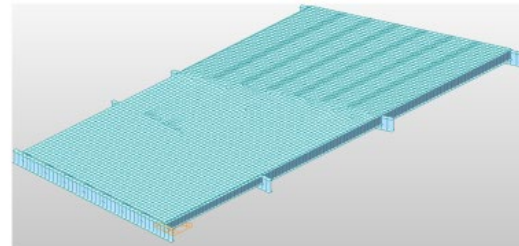
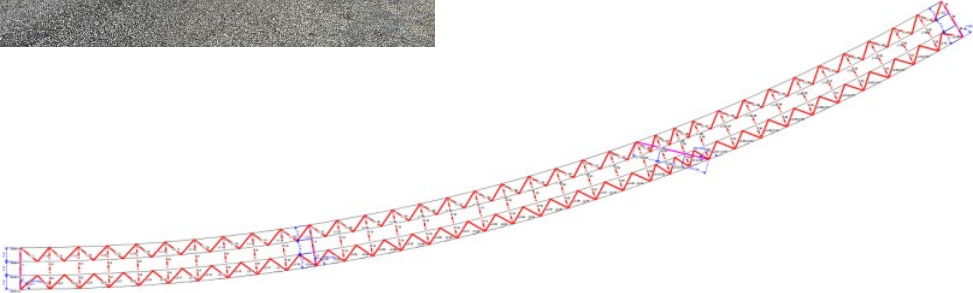
**IDIQ Contracts for
Bridge Load Rating
Services**



**LA 182: Berwick Bay Bridge Rehabilitation
St. Mary Parish, LA**

WGI has prepared rehabilitation design plans and recommendations for a wide range of projects, from strengthening measures to complex steel repairs and impact-damage repairs.

17. Firm Experience:

Firm name	WGI, INC.		Discipline(s)*	Bridge	
Project name	Load Rating of 300 On-System Bridges			Firm responsibility (prime or sub?)	Prime
Project number	H.009859.5	Owner's name	LADOTD		
Project location	Statewide, LA		Owner's Project Manager	Teri Hammett, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge (225) 379-1323 Teri.Hammett@LA.GOV				
Services commenced by this firm (mm/yy)	08/25	Total consultant contract cost (\$ 1,000s)			\$2,026
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$ 1,000s)			\$2,026
The scope was to perform LRFR load rating analysis of 300 bridges in accordance with LADOTD BDEM and AASHTO Manual for Bridge Evaluation. Additionally, three bridges were selected by LADOTD to perform NDT load testing to improve or remove the posting on major routes. The bridge types include: • Reinforced concrete slab • Precast concrete slab • Concrete voided slab • Precast prestressed concrete girder • Steel I-beam • Steel plate girder • Concrete segmental box girder • Reinforced concrete box culverts • Reinforced concrete frame culverts • Steel pipe culverts The load tests include: • I-10 over Service Road and UPT Railroad (steel stringer-floorbeam system) • LA173 over Creek Bridge (steel I-beam) • US 61 over New River (concrete slab)		    			
		Team: Osama Elsaad, PE; Zhiyong “John” Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PhD, PE; Mohammad Tahat, PhD, PE; Moe Sabouri, EI; Sandeep Bajagain, EI; Prativa Pathak, EI; Parnian Abdi, EI; Dasharath KC, PE; Ammar Al Maabreh, PhD, EI; Zina Ebrahim, PhD, EI; John Campbell, EI			

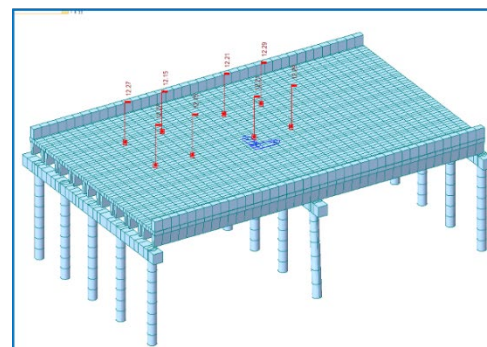
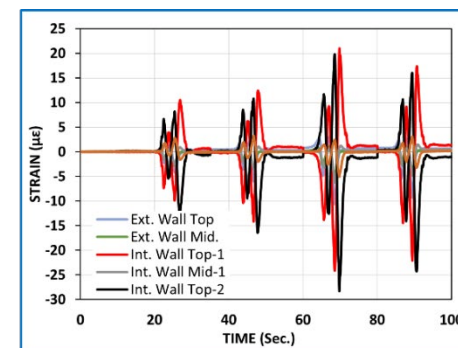
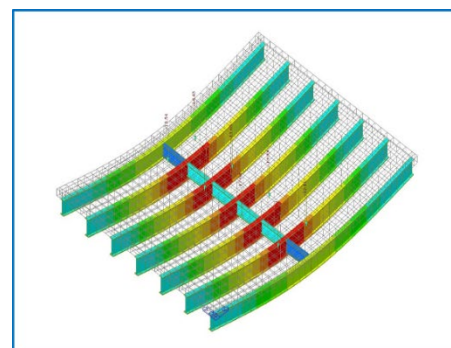
Firm name	WGI, INC.		Discipline(s)*	Bridge
Project name	Load Testing and Evaluation of 19 Bridges		Firm responsibility (prime or sub?)	Prime
Project number	H.012485.1	Owner's name	LADOTD	
Project location	Statewide, LA		Owner's Project Manager	Corey Bourgeois, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge (225) 379-1027 Corey.Bourgeois@LA.GOV			
Services commenced by this firm (mm/yy)	04/22	Total consultant contract cost (\$ 1,000s)	\$1,190	
Services completed by this firm (mm/yy)	02/23	Cost of consultant services provided by this firm (\$ 1,000s)	\$1,190	

The scope of this project is to perform load testing coupled with FE analysis of the controlling member(s) dictating the posting of the bridge. The objective of this project is to accomplish the following:

- 1) Through load testing and refined analysis, to maintain current posting in the case where current load rating indicates lower posting based on conventional analysis;
- 2) Remove the posting entirely based on higher analysis accounting for actual live load distribution and/or strength characteristics not accounted for in conventional analysis.

The bridge types tested include culverts, prestressed channel/slab units, steel I-beams, and timber and concrete substructure elements. The detailed scope of work includes:

- Development of 3D FE modeling to predict strains in the field and for refined analysis.
- Instrumentation and diagnostic load testing of bridges currently posted.
- Preparation of comprehensive report giving the details of the FE analysis and compiled load test results of each bridge in conjunction with strengthening suggestions, if applicable.
- Provide Stage 5 Part I and II construction support.



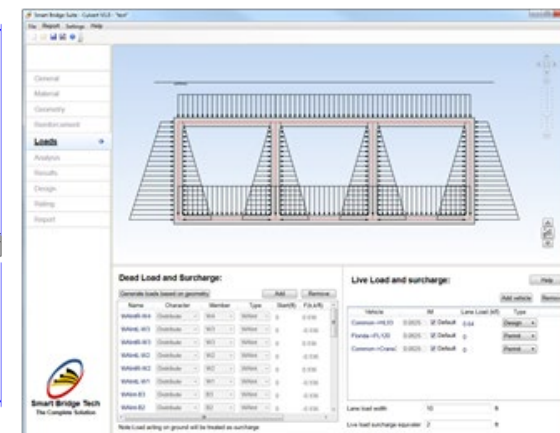
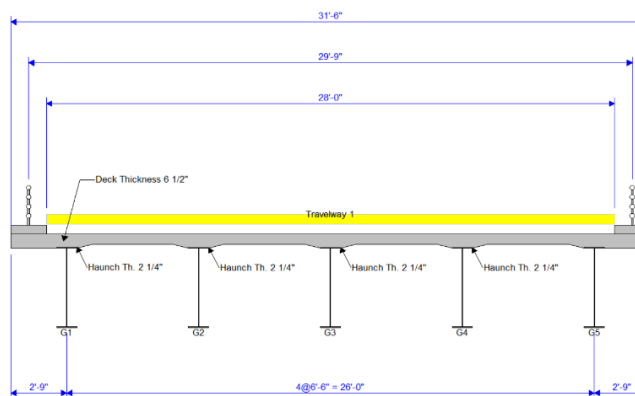
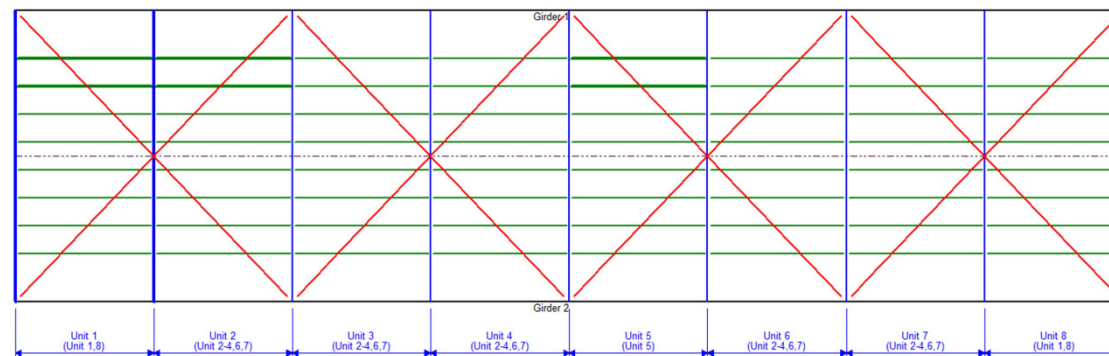
Team: Osama Elsaad, PE; Zhiyong “John” Liang, PhD, PE; Mohsen Shahawy, PhD, PE

Firm name	WGI, INC.			Discipline(s)*		Bridge	
Project name	Load Rating of 617 Bridges				Firm responsibility (prime or sub?)		Prime
Project number	H.012485.5	Owner's name	LADOTD				
Project location	Statewide, LA			Owner's Project Manager		Dana Feng, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge (225) 379-1060 Dana.Feng@LA.GOV						
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost (\$ 1,000s)				\$3,841	
Services completed by this firm (mm/yy)	06/21	Cost of consultant services provided by this firm (\$ 1,000s)				\$3,841	

The scope was to perform LRFR load rating analysis of 617 bridges in accordance with LADOTD BDEM and AASHTO Manual for Bridge Evaluation.

The bridge types include:

- Reinforced concrete slab
- Precast concrete slab
- Reinforced concrete T-beam
- Precast prestressed concrete girder
- Steel I-beam
- Steel plate girder
- Reinforced concrete box culverts
- Reinforced concrete arched culverts timber bridges



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

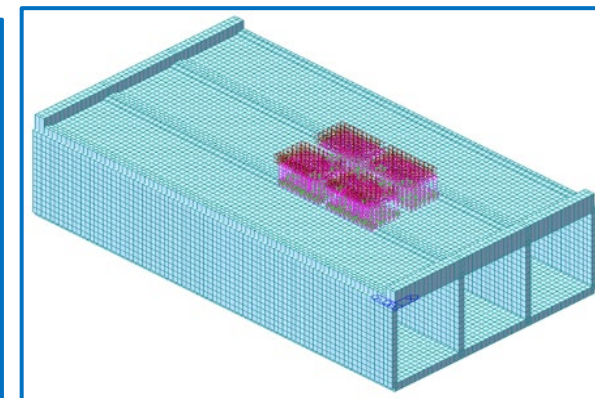
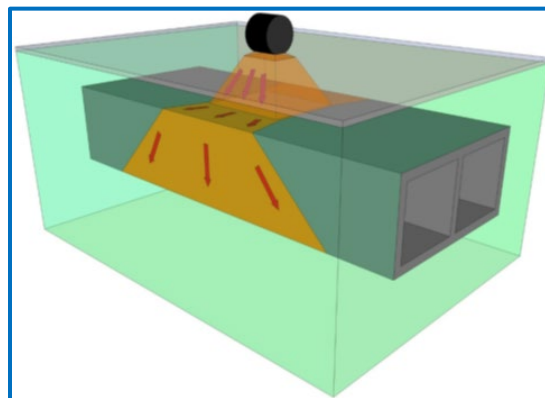
Firm name	WGI, INC.		Discipline(s)*		Bridge	
Project name	RC Box Culverts Testing and Rating				Firm responsibility (prime or sub?)	Prime
Project number	H.009730.5	Owner's name	LADOTD			
Project location	Statewide, LA			Owner's Project Manager	Dana Feng, PhD, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge (225) 379-1060 Dana.Feng@LA.GOV				
Services commenced by this firm (mm/yy)		12/18	Total consultant contract cost (\$ 1,000s)			\$837
Services completed by this firm (mm/yy)		10/20	Cost of consultant services provided by this firm (\$ 1,000s)			\$837

The scope was to assess the load rating of representative CIP-RC box culverts from the LADOTD inventory and to develop a load rating procedure representative of the actual field performance.

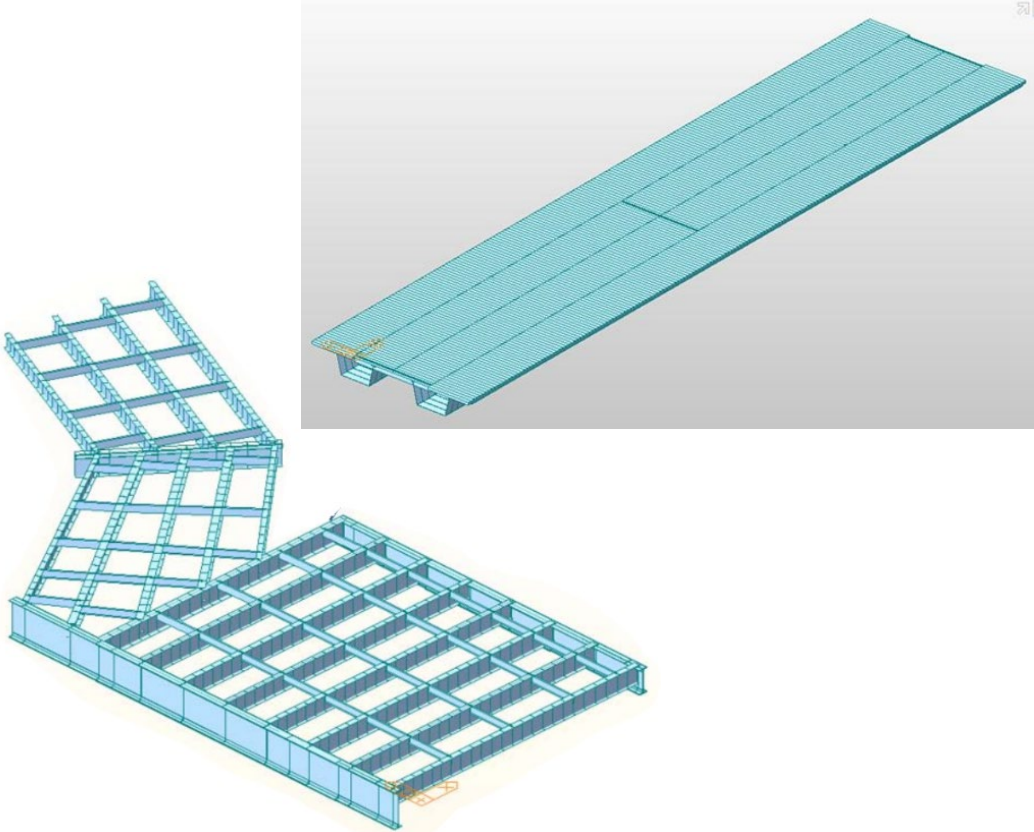
The project was conducted in two phases. Phase I comprised a literature review of published standards and reports; a preliminary analytical study using 2D frame element models to investigate the influential parameters, and examination of LADOTD culvert inventory.

Phase II comprised performing diagnostic load testing of 12 culverts with different configurations representative of LADOT inventory and conducting a parametric study that included development of 120 3D FE models for culverts with different configurations (fill heights, span lengths, and culvert lengths) and the corresponding 2D frame element models. The purpose of the parametric study was to develop correction factors to correlate internal forces obtained from 3D analysis with those obtained from 2D analysis.

Phase III comprised performing load rating of 100 box culverts using the proposed method in AASHTOWare BrR based on 3D FE analysis and diagnostic load testing results.



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

Firm name	WGI, INC.		Discipline(s)*		Bridge	
Project name	Load Rating of 27 Complex Bridges				Firm responsibility (prime or sub?)	Prime
Project number	H.009859.5	Owner's name	LADOTD			
Project location	Lafourche Parish, LA			Owner's Project Manager	Yan “Seraphy” Shen, PhD, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge (225) 379-1012 Yan.Shen@LA.GOV					
Services commenced by this firm (mm/yy)	02/19	Total consultant contract cost (\$ 1,000s)			\$649	
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm (\$ 1,000s)			\$649	
WGI was tasked by LADOTD to conduct load rating analysis of 27 complex off-system bridges across the state of Louisiana using the LRFR method in accordance with LADOTD BDEM and AASHTO Manual for Bridge Evaluation. The bridge types included in this project were as follows: • Ferry-toll • Pontoon • Steel I-beam • Steel plate girder swing spans • Steel plate girder continuous spans • Steel plate girder bascule spans • Low truss swing spans • Steel box girder Since AASHTO approximate analysis is not applicable to many of the bridges, the superstructures were analyzed utilizing FE analysis along with in-house-developed spreadsheets or Mathcad. The substructures were rated using RC-Pier, MathCAD, and Microsoft Excel spreadsheets. Influence lines for the controlling load effect at critical sections were also developed for the substructures.						
Team: Osama Elsaad, PE; Zhiyong “John” Liang, PhD, PE; Feng Xie, PhD, PE; Mohsen Shahawy, PhD, PE						

Section 18

**IDIQ Contracts for
Bridge Load Rating
Services**

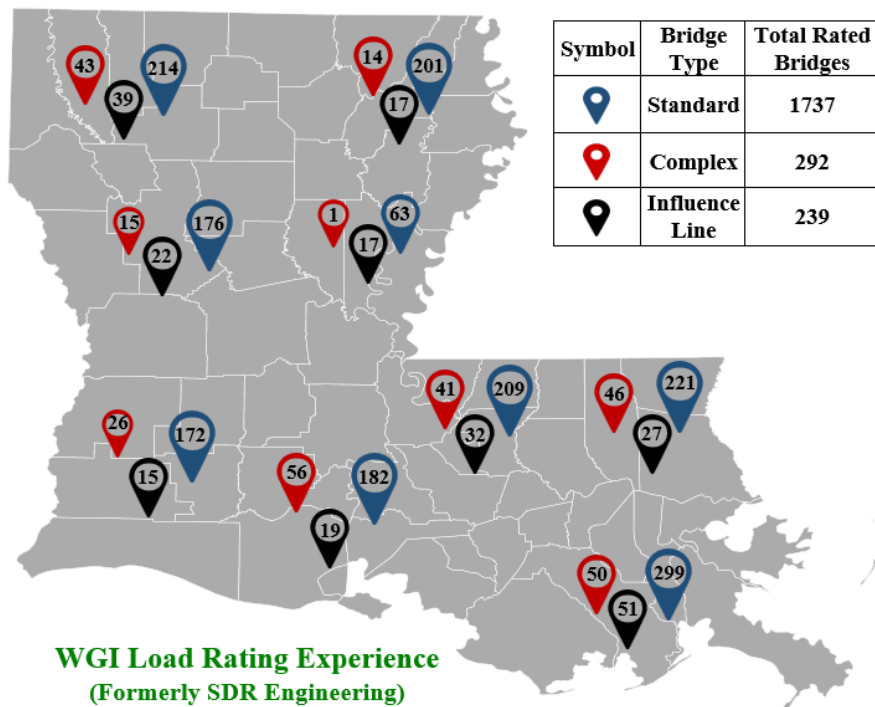


**Routine and In-depth Inspection of
I-20 over Mississippi River Bridge
Madison Parish, LA**

WGI has extensive experience in bridge inspection and is equipped to address a wide range of inspection needs, accurately identifying deficiencies and providing detailed inspection reports.

18. Approach and Methodology:

WGI (formerly SDR Engineering) has a proven track record of delivering high-quality bridge engineering services on LADOTD IDIQ contracts. The former SDR team remains intact and is now supported by WGI's nationwide network of more than 500 professionals with expertise in bridge inspection, load rating, and structural evaluation. Led by **Dr. Zhiyong “John” Liang, PE**, the team has inspected, load rated, and developed rehabilitation recommendations for more than 2,000 bridges throughout Louisiana over the past 10 years.



PROJECT APPROACH:

TASK 1: PLAN AND DOCUMENT RETRIEVAL AND REVIEW

Before load rating, WGI will collect and review all available bridge records, including as-built and design plans, shop drawings, inspection reports, previous load ratings, rehabilitation records, maintenance history, field measurements, and load testing data. These documents will be evaluated to verify bridge geometry, identify modifications or deterioration, and establish an accurate basis for load rating.

When complete bridge records are unavailable, WGI will perform comprehensive record recovery by coordinating with LADOTD Headquarters

and District offices, local agencies, original designers, fabricators, contractors, and other available sources to obtain plan sheets, sketches, partial drawings, and historical rating information. Bridge documents will be verified against inspection photographs and field information to ensure consistency and accurately reflect current bridge conditions. WGI's document retrieval and review process provides a reliable foundation for developing accurate bridge models and load ratings.

TASK 2: SITE VISITS

WGI will perform bridge site visits to collect field measurements and document existing conditions to develop accurate load ratings. Site visits will focus on critical structural elements, verifying dimensions, documenting deterioration or damage, and evaluating deficiencies that may influence bridge capacity. When needed, NDT, including GPR, ultrasonic testing, or magnetic particle inspection, will be used to verify reinforcement details, assess material condition, and identify hidden defects.

WGI utilizes standardized inspection procedures, digital data collection platforms, and customized software to ensure consistent, accurate, and efficient field documentation. Site visits will also consider surrounding site conditions that may affect future rehabilitation or construction activities. All findings will be documented in a summary report prepared in accordance with the AASHTO Manual for Bridge Evaluation and LADOTD BDEM, including observations, field measurements, condition assessments, and recommendations to support load rating and, when appropriate, future rehabilitation.

TASK 3: ANALYSIS AND LOAD RATING

WGI performs bridge load ratings in accordance with the latest AASHTO Manual for Bridge Evaluation, the LADOTD BDEM, and applicable Bridge Design Technical Memorandums. All relevant factors, including existing bridge condition, material properties, structural deficiencies, previous repairs, and current geometry, are incorporated into the analysis to produce accurate load ratings.

Bridge models are developed using AASHTOWare BrR, with LEAP Bridge Concrete and other LADOTD-approved software utilized as needed. Simple bridges are analyzed using system structural models, while complex structures may require refined 3D FE models developed in MIDAS or other approved software to accurately capture bridge-specific behavior when the BrR model is inadequate. Where required, influence lines for critical superstructure and substructure members will be developed to evaluate structures that cannot be fully analyzed in BrR. Load ratings will consider HL-93 design loads, LADOTD State Legal Loads, SHV, and emergency vehicles (EV), as well as secondary and temperature effects for structures sensitive to these effects.

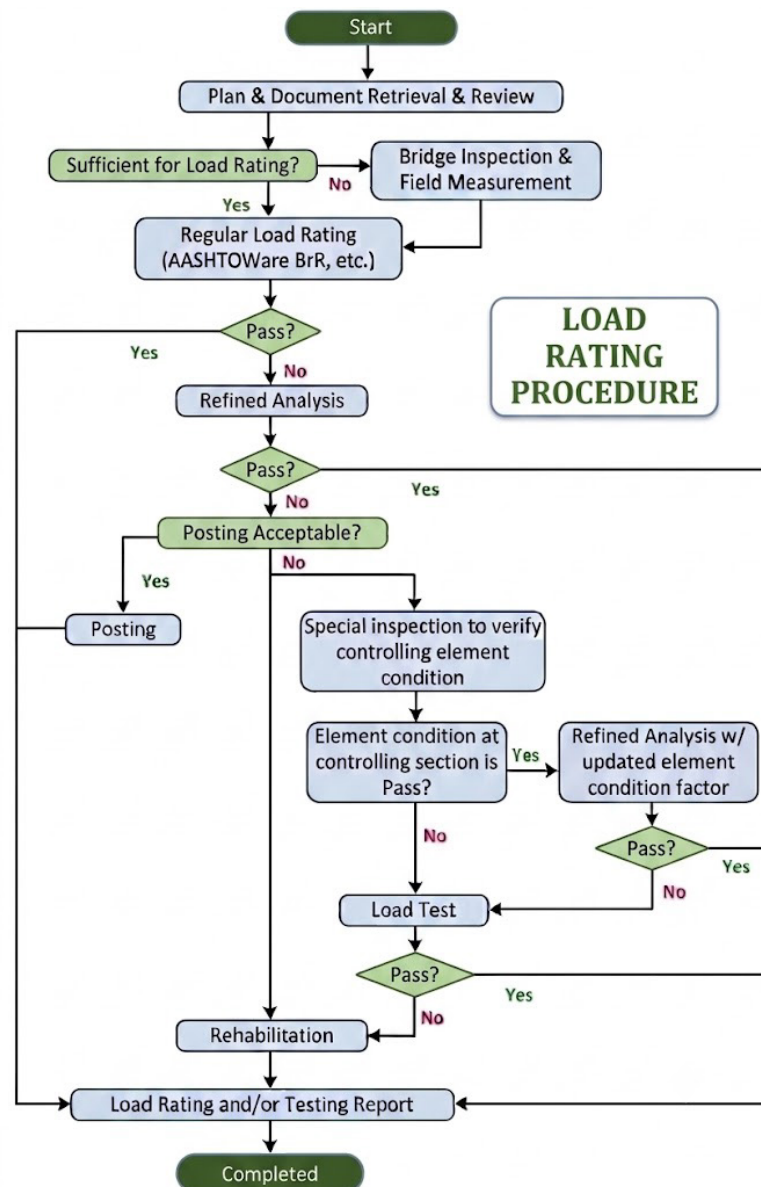
Complex bridges require refined, bridge-specific analytical models to accurately represent their unique structural behavior. Each bridge presents distinct geometric, support, and loading conditions that must be incorporated into the analysis. For example, swing bridges require evaluation in both the open and closed positions, as changes in support conditions and dead load distribution can significantly affect load ratings. WGI has extensive experience modeling these unique behaviors to produce accurate and reliable bridge load ratings.

When initial BrR ratings result in a load posting, WGI performs refined analyses to determine the bridge's actual capacity before recommending posting or rehabilitation. These analyses may include FE analysis, verification of material properties, field measurements, and detailed evaluation of load distribution and member behavior. WGI has successfully improved or eliminated load postings on numerous bridges through refined analysis, avoiding unnecessary restrictions and rehabilitation.

Bridges with missing design plans: All missing bridge dimensions will be field-measured and compared to previous sketches, if available. GPR scanners will be used to determine the location and size of reinforcement. Bridge inspection findings of any damage or section loss will be documented and summarized in a report. The data collected will be used to perform the load rating in addition to generating accurate sketches and plans of these bridges for future use.

Mathcad and Excel are extensively used to present comprehensive rating reports that include rating assumptions, model schematics, software output, tabulated results, bridge plans, and inspection reports. Computer models developed using BrR, LEAP, MIDAS, COMPSTIL2, or any other approved software will be included with the submittal. When specialized software is required, WGI will obtain LADOTD approval before use.

WGI recognizes that existing bridges often differ from original plans due to modifications, deterioration, or construction practices. Existing shoulders, sidewalks, lane configurations, lateral support conditions, and other field conditions are evaluated and incorporated into the analytical model to improve rating accuracy. Our team also verifies the reasonableness of software-generated results, drawing on extensive experience identifying and resolving modeling and rating issues in AASHTOWare BrR through coordination with LADOTD.



From experience with past load rating projects, additional engineering evaluation is often necessary to accurately determine capacity. For example, steel members with long unbraced lengths that are laterally supported along the top flange often receive overly conservative ratings due to the C_b calculation. In these cases, a detailed hand calculation of the C_b factor and incorporation of the revised value into the BrR model are necessary to ensure an accurate evaluation.

WGI applies additional engineering evaluation, when warranted, to determine the actual carrying capacity of the bridge and avoid unnecessary load posting or strengthening. From experience, assessment of the accuracy of the BrR results is important since, in several cases, WGI has identified significant errors in the load ratings performed in BrR and has been instrumental in developing solutions through direct coordination with LADOTD PM. The ability to determine the validity of rating results from the use of approved software is a crucial measure in the load rating process.

Schematic Recommendations to Improve Posting: WGI's load posting approach begins with refined analysis to maximize bridge load ratings. If acceptable ratings cannot be achieved, targeted inspections of controlling structural elements may be performed to verify actual field conditions and determine whether higher condition factors are justified. For example, if a bridge is controlled by shear capacity and classified in poor condition, inspection may confirm minimal deterioration, allowing refinement of the analysis and improved load ratings. Similar evaluations may be performed for flexural regions where observed deterioration does not affect structural capacity.

Depending on types and locations, many identified deficiencies that result in a reduced condition factor have very little to no impact on flexural and shear capacity. However, blanket consideration of the overall condition factor in the analysis most often results in posting.

When posting cannot be eliminated through refined analysis, WGI will develop schematic recommendations to improve or remove the posting. Recommendations may include NDT, load testing, or rehabilitation alternatives, as appropriate. Proposed rehabilitation measures will consider structural integrity, constructability, future replacement plans, and cost-effectiveness. Repair plans will identify required repairs, element-specific details, and any recommended traffic control, detours, or temporary signage needed during construction.

Final Report: WGI will prepare a comprehensive load rating report documenting current bridge conditions, rating assumptions, analytical methodology, controlling members, rating factors, and strengthening recommendations. Electronic copies of retrieved records, bridge models, calculations, and required posting documentation will be submitted in accordance with LADOTD requirements.

QA/QC: WGI has established quality control procedures for all project scopes. Quality control will be integrated throughout each task through designated raters, checkers, and reviewers in accordance with BDEM and LADOTD requirements.

Project Schedule: The schedule below represents a sample task order assignment timeline:

SAMPLE BRIDGE LOAD RATING TASK SCHEDULE Sample Timeline for a Typical Task Order Assignment

TASK	DURATION	KEY ACTIVITIES
 PROJECT SCOPE	1 MONTH	Scope development, work hour/fee negotiation, NTP, and project kick-off.
 PLAN/DOCUMENT REVIEW	0.50 MONTH	Confirm rating criteria, collect project plans and relevant information, review data, and discuss prioritization preferences with DOTD/PM.
 SITE VISIT	1 MONTH	Confirm locations and safety plans, coordinate equipment and logistics, conduct site visits and field measurements, and prepare condition reports and sketches.
 ANALYSIS AND LOAD RATING	6-8 MONTHS	Perform BrR and complex load ratings, develop repair recommendations, prepare load posting recommendations, and summarize and provide rating reports.
 MISCELLANEOUS	1-2 MONTHS	Training, Overweight Permit Review, Other Rating Review & Updates.

Note: Durations shown are typical ranges and may vary based on project scope, complexity, and DOTD direction.

TASK 4: TRAINING

To assist the LADOTD load rating group in analyzing more complex structure types, WGI will develop and deliver a formal training course. This course will be designed to equip participants with the necessary knowledge and skills to effectively analyze and rate structures using AASHTOWare BrR or FE modeling. The consultant's role in developing this training course will involve:

Curriculum Development: WGI will create a comprehensive curriculum that covers all aspects of load rating analysis, including theoretical concepts, practical applications, and hands-on exercises.

Instructional Materials: WGI will develop instructional materials, such as presentations, manuals, and reference guides, to support the training course and facilitate learning. Training will include practical case studies demonstrating the application of the software to represent complex bridge load-rating problems.

Training Delivery: Training will be delivered virtually or in person, as directed by LADOTD. Both options have their advantages and considerations, and the consultant will provide an overview of each to help participants make an informed decision.

Dr. Shahawy and Dr. Liang have developed and delivered many training courses for LADOTD bridge engineers, including LRFR load rating of culverts, load rating of complex bridges, and the use of Smart Bridge Suite.



TASK 5: OVERWEIGHT PERMIT REVIEW

WGI has extensive experience assisting LADOTD with overweight permit reviews. WGI developed LADOTD's influence line software, COMPSTIL2, providing the firm with a thorough understanding of LADOTD's permit review procedures and load rating requirements. Designed specifically to evaluate overweight vehicles crossing Louisiana bridges along designated routes, COMPSTIL2 enables efficient analysis of critical superstructure and substructure elements. The software is currently used by LADOTD and is recognized as a pre-approved standard software for bridge load rating, especially on permit rating.

Using influence lines for issuing load permits is an important part of bridge load rating. Influence lines provide insight into how much weight can safely be put onto any given span or section of a bridge. This information makes it possible to issue accurate and timely permits for vehicles that exceed legal load limits without compromising safety.

TASK 6: REVIEW, UPDATE, AND CORRECT AASHTOWare BrR FILES

WGI is highly experienced in reviewing, updating, and validating AASHTOWare BrR files for LADOTD. Our team has revised numerous existing bridge load rating files to reflect changes in design specifications, LRFR methodologies, and software updates while verifying the accuracy of bridge models and load rating data. Leveraging its expertise with AASHTOWare BrR and current load rating practices, WGI can efficiently identify and correct deficiencies to produce accurate, reliable BrR files that support LADOTD's automated permitting program.

TASK 7 & 8: BRIDGE RATING REVIEW & MISCELLANEOUS RATING WORK

WGI has provided independent bridge load rating reviews and quality assurance services for LADOTD on numerous projects. Our team is well-versed in AASHTOWare BrR, FE modeling, LRFR methodologies, and LADOTD policies, enabling us to efficiently verify rating calculations, ensure compliance with current standards, and deliver accurate, consistent reviews that help LADOTD focus on priority and emergency response efforts.

WGI has assisted LADOTD with various bridge load rating and permitting initiatives, including policy development, AASHTOWare BrR implementation, and automated permitting systems. Our team combines expertise in bridge engineering, load rating, and software applications to provide timely technical support, develop practical rating and permitting procedures, and assist LADOTD with evolving program needs.

WGI KEY PERSONNEL:

The key staff listed below will be fully active in supporting all project requirements.

Zhiyong “John” Liang, PhD, PE (project manager) is a seasoned bridge manager with over 30 years of experience in bridge inspection, assessment, load rating, and NDT. He has successfully managed multiple LADOTD IDIQ contracts and performed structural evaluations and load ratings of complex bridges, including segmental, cable-stayed, and major truss bridges. Dr. Liang also has extensive experience in FE analysis of complex structures and is an NBIS-certified team leader bridge inspector.

Mohsen Shahawy, PhD, PE (managing principal), has over 40 years of experience in bridge design, rehabilitation, and load rating of complex bridges. He has prepared and delivered NHI, IRF-, and PCI-sponsored courses since 2004 covering diverse topics including bridge rehabilitation and complex bridge LRFR Load rating. He is an expert in load rating and evaluation of post-tensioned segmental concrete bridges utilizing span-by-span and cantilever construction techniques and cable-stayed bridges, having performed over 25 load ratings and rehabilitation of such structures. He has published over 180 papers covering shear performance, LRFD and LRFR Code issues, and bridge rehabilitation utilizing carbon fiber composites.

Feng Xie, PhD, PE has 12 years of experience in bridge design, analysis, inspection, and load rating of simple and complex bridges, including movable (swing, bascule, and lift) bridges and fixed bridges such as arch, truss, and multi-girder structures. Dr. Feng is also an NBIS-certified team leader bridge inspector.

Osama Elsaad, PE has 10 years of experience in bridge design, analysis, inspection, and load rating of simple and complex bridges, including truss, multi-girder, and movable (swing, bascule, and lift) bridges. He has performed more than 100 NDT bridge load testing projects, inspected major truss bridges throughout Louisiana, and is an NBIS-certified team leader bridge inspector.

WGI has extensive scope-specific experience in bridge evaluation, NDT, load rating, and bridge rehabilitation for over 30 years. WGI has developed many engineering software programs and in-house analysis tools for load rating and refined analysis of bridges. Among them the Smart Bridge Suite, Smart Bridge Culvert, and COMPSTIL2 are currently used by LADOTD and listed as pre-approved standard software for bridge load rating.



Sections 19-23

IDIQ Contracts for
Bridge Load Rating
Services



Load Test of 9 Substructures Statewide, LA

WGI has performed proof load testing on more than 25 LADOTD bridges to evaluate the effects of settlement and verify that their substructures can safely carry the required Louisiana legal loads.

19. Workload:

Firm(s) <u>ALL FIRMS MUST BE REPRESENTED IN THIS TABLE</u>	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
	Bridge	44-30995, H.009859	Load Rating of 72 Bridges	\$753,970
		44-30996, H.011487	Berwick Bay Bridge Rehab (Construction Support)	\$3,836
		44-30996, H.010015	H.010015.5 -La 143 Bayou D'arbonne Bridge	\$2,486
		44-30996, H.012028	I-20: Lake Shore Drive/KCS Overpass Rehab (Phase I)	\$25,600
		44-30996, H.014281	US 190: Miss River Br Repair Ph. 3 (HBI)	\$402,971

DO NOT SUM

* The only disciplines to be used are: Appraiser, Bridge, CEandI/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic. If a firm has more than one discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per discipline.

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

20. Certifications/Licenses:

Mohsen Shahawy, PhD, PE



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

Certificate of attendance and participation for:

Mohsen Shahawy

Training Course:
Maintenance and Rehabilitation of Historic Bridges

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

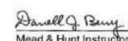
Please select the date you attended the course:

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

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



Mead & Hunt Instructor
Amy Squitieri



Mead & Hunt Instructor
Darrell Berry, PE, SE

Zhiyong “John” Liang, PhD, PE



Bridge Inspection Program

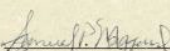
Bridge Inspection Training School

This certifies that

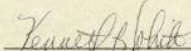
Zhiyong Liang

Has completed a Federal Highway Administration (FHWA)
approved comprehensive course

May 12-23, 2008



Samuel P. Maggard, Ph.D., P.E.
Bridge Inspection Engineer
Civil Engineering Department
New Mexico State University



Kenneth R. White, Ph.D. P.E.
Associate Department Head
Civil Engineering Department
New Mexico State University





National Highway Institute

Certificate of Training

Zhiyong Liang

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Indiana Department of Transportation

Date: December 1-4, 2020

Location: Virtual Delivery, MI

Hours of Instruction: 18

Instructor

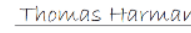


Tom Harman
2020.12.09 05:24:05
400101

Digitally signed by William A. Ditttrich, O F
Date: 2020.12.11 12:18:30 -0500

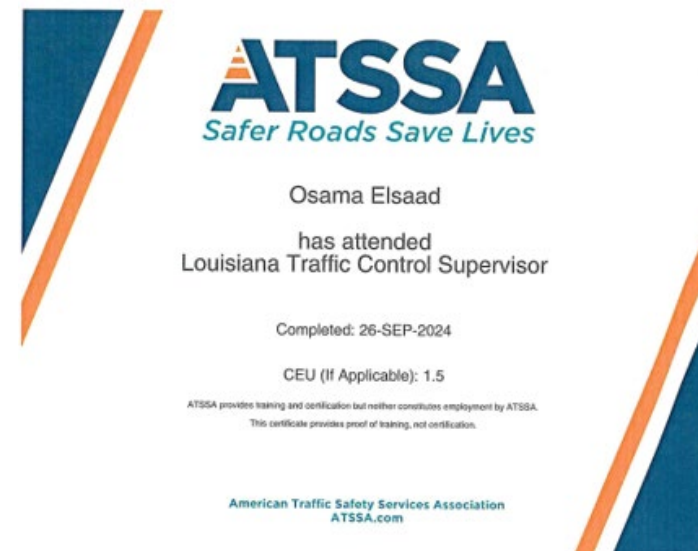
William Ditttrich

Local Coordinator



Thomas Harman
Thomas Harman, Director
National Highway Institute

Osama Elsaad, PE



Feng Xie, PhD, PE





WGI, INC. SOS Registration

Name	Type	City	Status
WGI, INC.	Business Corporation (Non-Louisiana)	WEST PALM BCH	Active

Previous Names

WANTMAN GROUP, INC. (Changed: 12/2/2020)

Business: WGI, INC.

Charter Number: 42639507F

Registration Date: 5/8/2017





21. QA/QC Plan:

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



22. Sub-consultant information:

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

Firm Name (Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS): <u>including punctuation, include screenshot(s)</u> <u>from SOS at the end of Section 20)</u>	Address	Point of Contact and email address	Phone Number

23. Location:

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