



Statement of Qualifications | Contract Nos. 4400035043 and 4400035044

IDIQ Contracts for Roadway Design Services

Statewide

SUBMITTED BY:

Hardesty & Hanover, LLC
3850 N. Causeway Blvd, Suite 1625
Metairie, LA 70002
T: 504.962.9212

SUB-CONSULTANTS:

Urban Systems, Inc.
SJB Group, LLC

May 2026



3850 N. Causeway Boulevard
Suite 1625
Metairie, LA 70002
T: 504.962.9212
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Louisiana Department of Transportation and Development
Consultant Contracts Services

May 5, 2026

Re: Contract Nos. 4400035043 and 4400035044 IDIQ Contract for Roadway Design Services Statewide

Dear Selection Committee Members:

Hardesty & Hanover (H&H) is submitting our qualifications to DOTD to provide roadway design services to prepare Preliminary and Final Roadway Plans for Task Orders assigned under this IDIQ contract. We are proud of our long history working in Louisiana, dating back to 1896 with the historic Waddell A-Truss Bridge over Cross Bayou in Shreveport. As a leader in engineering, our firm brings a legacy of providing engineering excellence for 139 years. H&H has the full capability, availability, and extensive engineering experience to perform all contract services required. We have identified a large pool of qualified roadway and drainage engineers that will meet project schedule and achieve the goals of each Task Order assigned under this IDIQ. Our extensive experience will aid in maintaining safe, reliable, and sustainable infrastructure for our fellow Louisiana residents and stakeholders.

Proven Roadway Design Experience: H&H's team of highly qualified engineers are available to begin as soon as the contract is awarded. Our team of engineers and specialists have decades of roadway design experience with the DOTD. From preparing preliminary and final plans, associated services and beyond, our team is dedicated to meeting and exceeding your expectations through efficiency and skillset.

Subconsultants: The H&H Team includes subconsultants with extensive experience in their specialty areas. SJB Group, LLC (SJB) will provide surveying services. Urban Systems Associates, Inc. (USI) will perform traffic engineering services. We have successfully delivered projects in partnerships with these subconsultants.

DOTD Experience: Our team brings comprehensive experience using DOTD standards and specifications with several team members working at DOTD for over 25 years and/or working on prior DOTD projects. Our thorough familiarity with DOTD procedures and design standards enables us to work accurately and efficiently. Together, we bring proven engineering services; successful delivery of similar, concurrent projects on time and on budget; resources that exceed the MPR requirements; and a roster of qualified professionals in all disciplines with availability to begin work immediately. H&H appreciates the opportunity to work with DOTD on this IDIQ contract. Please do not hesitate to contact us if additional information on our extensive qualifications is needed.

Sincerely,

A handwritten signature in black ink that reads 'Babak Naghavi'.

Babak "Bobby" Naghavi, PE, PH, PhD
Project Manager and Point of Contact
504.605.7940
bnaghavi@hardestyhanover.com

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised August 11, 2025)

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

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

1. Contract Name as shown in the advertisement	IDIQ Contracts for Roadway Design Services Statewide
2. Contract Number(s) as shown in the advertisement	4400035043 and 4400035044
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>)	Hardesty & Hanover, LLC
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	E.F. 0005124
6. Prime consultant mailing address	3850 N. Causeway Blvd. Ste. 1625 Metairie, LA 70002
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	3850 N. Causeway Blvd. Ste. 1625 Metairie, LA 70002
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Babak "Bobby" Naghavi, PE, PH, PhD, Regional Manager 504.605.7940 bnaghavi@hardestyhanover.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Babak "Bobby" Naghavi, PE, PH, PhD, Regional Manager 504.605.7940 bnaghavi@hardestyhanover.com

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

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.



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

May 5, 2026

Date:

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

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

Firm(s):

No DBE goal has been set for this contract

Firm(s)' %:

12. Discipline Table:

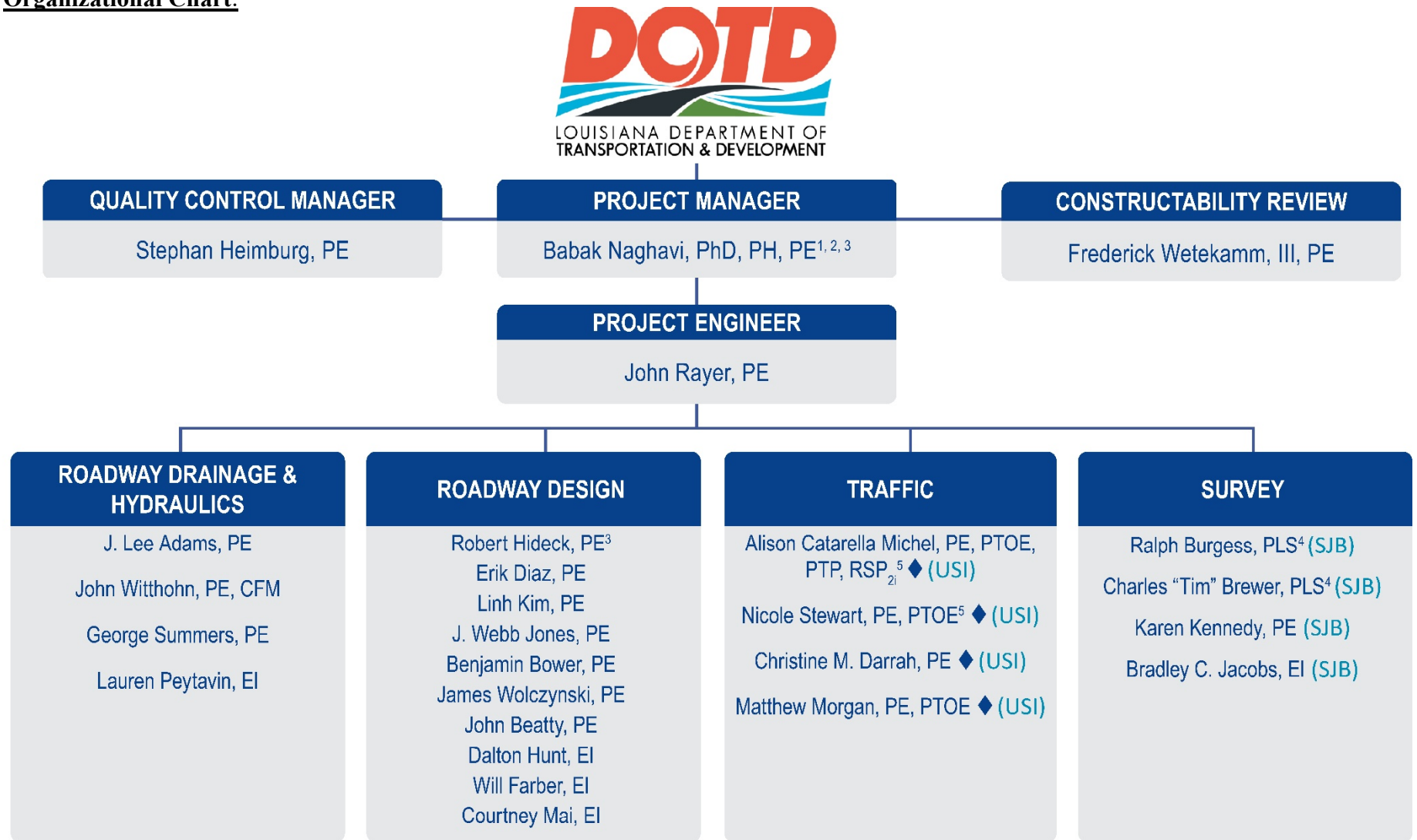
Discipline(s)	% of Overall Contract	Hardesty & Hanover, LLC	Urban Systems	SJB Group, LLC	Each Discipline must total to 100%
Road	80%	100%			100%
Traffic	10%		100%		100%
Survey	10%			100%	100%
Identify the percentage of work for the <u>overall contract</u> to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	100%	80%	10%	10%	

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)
Hardesty & Hanover, LLC	Principal	1	3
	Supervisor - Eng	3	8
	Engineer	5	12
	Engineer - Other	5	12
	Engineer Intern	4	12
	Administrative	1	2
Urban Systems, Inc.	Supervisor-Eng	2	2
	Engineer	2	3
	Engineer Intern	3	4
	CADD Technician	1	2
	Technician	2	2
SJB Group, LLC	Principal	1	1
	Surveyor	2	5
	Technician	2	5
	Party Chief	2	5
	Instrument Man	2	5
	CADD Drafter	1	6
	Rodman	1	1
	Supervisor - Other	2	2
	Senior Technician	2	5

	CADD Technician	2	2
	CADD Operator	2	2

14. Organizational Chart:



LEGEND			
MPRs	1, 2, 3, 4, 5	♦	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Subconsultants			
USI	Urban Systems, Inc.	SJB	SJB Group, LLC

Unless otherwise noted, all staff shown are employees of H&H.

15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Babak Naghavi, PE, PH, PhD	Hardesty & Hanover, LLC	PE #20745 – Civil Engineer, Environmental Engineer	LA	09/30/2026
2	Babak Naghavi, PE, PH, PhD	Hardesty & Hanover, LLC	PE #20745 – Civil Engineer, Environmental Engineer	LA	09/30/2026
3	Babak Naghavi, PE, PH, PhD	Hardesty & Hanover, LLC	PE #20745 – Civil Engineer, Environmental Engineer	LA	09/30/2026
3	Robert Hideck, PE	Hardesty & Hanover, LLC	PE #41953 – Civil Engineer	LA	03/31/2028
4	Ralph Burgess, PLS	SJB Group, LLC	PLS #0005040	LA	09/30/2026
4	Charles “Tim” Brewer, PLS, RPLS	SJB Group, LLC	PLS #0005009	LA	09/30/2027
5	Alison Catarella Michel, P.E., PTOE, PTP, RSP2i	Urban Systems, Inc.	PE #30261 – Civil Engineer PTOE #1023	LA	3/31/2027 11/6/2026
5	Nicole H. Stewart, P.E., PTOE	Urban Systems, Inc.	PE #34750 – Civil Engineer PTOE #2923	LA	09/30/2027 08/14/2027

16. Staff Experience:

	Firm employed by Hardesty & Hanover			
	Name	Babak Naghavi, PE, PH, PhD	Years of relevant experience with this employer	9
	Title	Regional Manager	Years of relevant experience with other employer(s)	35
	Degree(s) / Years / Specialization		Ph.D. / 1993 / Civil Engineering M.S. / 1982 / Civil Engineering B.S. / 1979 / Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: 20745 / LA / 9/30/2026 Professional Hydrologist: 95-H-1121 Certifications: Maintenance and Rehabilitation of Historic Bridges (LADOTD); NEPA Transportation Decision Making Workshop; Work Zone Traffic Control Supervisor/Flagger		
Year registered	1983	Discipline	Civil & Environmental Engineering	
Contract role(s) / brief description of responsibilities		Project Manager – Meets MPR 1, 2, & 3		
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).			
01/19 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Project Manager for the widening of the existing four-lane Lapalco Blvd to provide a facility carrying three lanes of traffic in each direction and the design of the new three-lane double bascule movable bridge crossing of Harvey Canal. The new bridge is constructed as an independent structure adjacent and north of the existing bridge with a new operator house. All roadway approaches and intersections in the vicinity of the bridge (eastbound and westbound) will be redesigned. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The existing bridge will be modified to carry a pedestrian and bicycle path. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. The scope of work includes development of a Traffic Control Plan, thorough inspection of the existing bridge, survey, and geotechnical engineering as well as updating the existing Environmental Assessment. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. Bobby oversaw project layout and coordination of the roadway plans to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. He also oversaw the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.			
01/20 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Project Manager for the rehabilitation of the Almonaster Ave approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and construction inspection services required for the partial replacement of the Almonaster Ave Bridge, a movable Strauss-heel trunnion bridge that crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920 bridge revealed that improvements to the electrical and mechanical systems, superstructure, and counterweight were required to return this bridge to its full operating capability. Although the existing substructure could remain, modifications were deemed necessary to accommodate the rehabilitated superstructure. The road design services included a new alignment for the connecting road including all drainage structures. The sharp curve that existed on westbound Almonaster Ave was demolished and a new road was constructed on an improved alignment. H&H developed a hydraulic study and a site plan that included several retention ponds for drainage improvements.			

11/24 – Present	SR 33 Roadway Replacement, Franklin County, MS – Mississippi DOT Project Manager for the Phase A Final Right-of-Way Plans for roadway design and roadway hydraulic design for four bridge replacements along SR 33 (Bridge Nos. 31.9, 34.6, 34.9, and 35.3). The project scope includes roadway realignment, roadway hydraulic design, preliminary right-of-way design, and final right-of-way design. H&H is providing the realignment of the roadway to run parallel to the existing and redesigning of one intersection at the end of the project. H&H developed a hydraulic study and report to resize the existing pipes, if necessary, and to verify sizing for a reinforced box culvert. A set of preliminary right-of-way plans were created following MDOT guidelines and using the approved alignment from MDOT. Final right-of-way plans will be delivered after hydraulic design and roadway design have been finalized and a plan set has been created.
11/21 – 10/23	H.014363.5 Sidewalk Improvements to Conform to ADA Guidelines, Slidell, LA – LADOTD Project Manager for design services including preliminary and final plans, and project proposal for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert Blvd) with US 190 (Gause Blvd) in the city limits of Slidell, LA, then continues North along LA 1091 for 2.0+/- miles to a location 175 ft. north of the intersection of LA 1091 with Country Club Blvd. The survey will extend along all major side roads 50 ft. from the PT of the curbing in each direction. The project includes providing various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines.
09/22 – Present	I-10 & I-12 College Dr Flyover Ramp Design- Build, Baton Rouge, LA - LADOTD Project Quality Manager overseeing design and construction quality control/quality assurance for this flyover ramp design-build project which is located at the I-10 West exit to College Dr, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will also develop, maintain, and update Contractor Quality Management Plan and provide all necessary qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.
03/18 – 04/21	SR 609 Bascule Bridge over Old Fort Bayou Rehabilitation, Ocean Springs, MS – Mississippi DOT Project Manager responsible for full rehabilitation of SR 609 bascule bridge as a task-order to the IDIQ Master Bridge Contract which includes developing standard and special bridge services statewide for MDOT. Scope of work includes inspection and rehabilitation of structural, mechanical, and electrical bridge components, roadway approaches and development of maintenance and repair plans. All designs are in accordance with AASHTO, FHWA and MDOT guidelines and specifications. Additionally, H&H provided construction phase services for the project.
05/13 – 02/17	Glen Oaks Dr (Plank Rd to McClelland Dr) – Baton Rouge DPW Project Manager for the \$10M engineering design for the construction of a three-lane concrete curb and gutter roadway with sidewalks and subsurface drainage on Glen Oaks Dr from Plank Rd to McClelland Dr. Glen Oaks Dr was a one-mi. existing Urban Collector roadway. The project also included improvements to several intersections, topographic survey, subsurface drainage system and outfalls, and hydrologic and hydraulics analysis for the outfalls.
01/09 – 08/10	USACE Contract. W912P8-07-D-0055: Causeway Blvd Overpass Complex - USACE Project Manager for this project that involved the design of north and south roadway approaches for the overpass structures at Causeway Blvd located at Jefferson Parish, LA. The scope of work included precast concrete piles; cast-in-place pile bent caps and concrete decks; approach slabs; and a storm-water drainage pumping station. This project was designed to LADOTD specifications.
06/12 – 12/15	SP No. 737-99-1024 Safe Routes to Schools, Statewide, LA – LADOTD Project Manager providing design and construction engineering and inspection services for projects involving sidewalks and drainage modifications, curb extensions, signing, and striping. Work included sidewalk, signage, and marking improvements in the vicinity of school areas including one school in New Iberia, LA; two schools in DeRidder, LA; three schools in Orleans Parish, LA; one school in Mandeville, LA; and one school in Hammond, LA.
02/81 – 07/87	Road Design Section, Hydraulics Unit – LADOTD Senior Hydraulics Engineer responsible for the review and design of the numerous roadway and drainage projects including the drainage design of roadway and bridge structures, scour analysis of bridges, and stabilization of stream banks and shorelines. Also developed the Hydraulic Design Manual and all the hydraulics and hydrologic computer programs that were used by the LADOTD, other government agencies, and the consultant community to design the hydrologic and hydraulic structures.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover		
	Name		Stephan Heimborg, PE	Years of relevant experience with this employer	19
	Title		Chief Engineer	Years of relevant experience with other employer(s)	23
	Degree(s) / Years / Specialization		B.S. / 1984 / Civil Engineering		
	Active registration number / state / expiration date		Professional Engineer: 41934 / FL / 2/28/2027		
Year registered		1989	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Quality Control Manager		
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/24 – Present		H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Roadway Engineer/Roadway QC for the widening of the existing four-lane Lapalco Blvd to provide a facility carrying three lanes of traffic in each direction and the design of the new three-lane double bascule movable bridge crossing of Harvey Canal. The new bridge is constructed as an independent structure adjacent and north of the existing bridge with a new operator house. All roadway approaches and intersections in the vicinity of the bridge (eastbound and westbound) will be redesigned. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The existing bridge will be modified to carry a pedestrian and bicycle path. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. The scope of work includes development of a Traffic Control Plan, thorough inspection of the existing bridge, survey, and geotechnical engineering as well as updating the existing Environmental Assessment. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.			
01/21 – 02/25		SR 826/Palmetto Expressway Capacity Improvement Design-Build, Miami-Dade County, FL – Florida DOT Project Manager responsible for project oversight. This project improves operations with an additional SB General purpose lane, auxiliary lanes, and improved shoulder widths, requiring major modifications to the NW 103rd St interchange. The project also includes revised access to the NB and SB express lanes, requiring a new toll site and improvements to the adjoining frontage road system. H&H is the lead designer, responsible for roadway, drainage, permitting, traffic control, tolling, and bridge design.			
07/17 – 06/20		Orlando South Ultimate Interchange Improvements, Orlando, FL – Florida’s Turnpike Enterprise Project Manager responsible for concept development, coordination, and project oversight of a complex interchange, including system and service movements. This project includes an evaluation of a complex interchange that provides both direct and indirect ramping between Orange Blossom Trail and the adjacent two limited access highways. Project goal included: construction of direct connection ramps between freeways, an ultimate 10-lane typical section of the turnpike, implementation of AET, consideration of express direct connections, and improvement of surface street operations with two new reliever interchanges. The recommended configuration included improvements to the systems interchange, modification to two adjoining interchanges, and new proposed service interchanges.			
07/16 – 9/21		SR A1A North Bridge Replacement, Fort Pierce, FL – Florida DOT Roadway Technical Advisor/Roadway QC Manager for the planning and design of a new high-level fixed bridge carrying SR A1A and the East Coast Greenway over the Intracoastal Waterway, FEC Railroad, and Old Dixie Highway. Scope included staged construction to maintain traffic, elimination of at-grade rail crossing, design of new roadway alignments and access roads, and integration of an observation deck. H&H coordinated extensively with			

	utilities, FEC Railroad, adjacent businesses, and permitting agencies. The project also included geotechnical, drainage, hydrogeology, lighting, signals, signage, and maintenance of traffic for both vehicular and marine users.
04/17 – Present	I-395 Segmental Bridges, Miami, FL – Florida DOT Roadway Technical Advisor/Roadway QC Manager for the design of the superstructure and performing the load ratings. H&H is designing seven new precast segmental bridges that are a part of the SR 836 / I-95 / I-395 corridor upgrade. This design-build project is being constructed by the Archer Western-De Moya Joint Venture. The overall construction value of the project is \$800 million, and the segmental bridges have a deck area of 700,000 square feet (approximately \$200 million). Construction is scheduled to be completed in late 2027.
08/16 – 06/18	I-75 SB Exit Design from S of Bypass Canal to EB/WB, Tampa, FL – Florida DOT Principal-in-Charge/Quality Control Officer responsible for project oversight of plans preparation and engineering documentation. This two-mi. roadway improvement project included the addition of a new auxiliary lane for southbound I-75 from south of the Bypass Canal to the southbound off-ramp and widening the I-75 southbound off-ramp from one to two lanes. A unique aspect of the design approach was the incorporation of this design into a long-term buildout of the interchange. This project was expedited for construction based on no right of way acquisition or impacts to Florida Gas Transmission lines.
02/15 – 06/18	44th Ave, E from 45th St E to 44th Ave Plaze E, Braden River Segment – Manatee County Chief Engineer responsible for oversight of roadway and Traffic Control Plans design. This project includes the design for the reconstruction and extension of 44th Ave East from 45th St East to 44th Ave Plaza East. The design plans include widening from a two-lane roadway to a four-lane divided urban roadway. As part of this project, a new bridge will be designed to cross over the Braden River and the realignment of Morgan Johnson Rd and Caruso Rd will provide route continuity. Alternative intersection designs, including a roundabout and stage construction were considered.
11/20 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Roadway QC Manager for the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.
06/21 – Present	Design of SR91 and SR528 Interchange MP 253 to S. of Sand Lake Rd (MP 257.25), Orange County, FL – Florida's Turnpike Enterprise Project Manager assisting with roadway analysis and plans development. H&H is prime consultant for this complex four-level interchange in a constrained environment. The project includes new direct systems ramps, braided ramps, a relocation of SR 528, and modifications to adjoining interchanges, including a Diverging Diamond interchange on the first level. As part of the design development, the design team worked closely with Turnpike traffic engineers to refine the design to include an additional southbound Collector Distributor Road to relocate weaving from the mainline, reconfiguration of a low-volume ramp to economize the design, and development of a three-project phasing plan to deliver incremental improvements as needed with packaging less than \$200 million. In addition to managing the design of the project, H&H is responsible for roadway, bridge, drainage signing and pavement markings, and toll design, which includes six new All Electronic Tolling Sites.
01/07 – 03/14	Veterans Expressway (SR 589) Widening from Memorial Highway to Gunn Highway – Florida's Turnpike Enterprise Project Manager, Chief Engineer, and Sub-consultant responsible for design coordination and maintenance of traffic support. This project included the widening of more than 6.5 mi. of a tolled principal urban arterial in northwest Hillsborough County from four to eight lanes, including the addition of express lanes. As part of the expansion, the existing conventional cash toll collection method was converted to an AET collection method. The project included two full interchanges and four partial interchanges. Due to the proximity to the Tampa International Airport, aviation permits were required throughout the project corridor and extensive coordination was required with the FAA and Hillsborough County Aviation Authority (HCAA). This included meeting with aviation agency staff and the design team to adjust design element locations and/or elevations for the acquisition of FAA determinations required for HCAA permits. The project also included the milling and resurfacing of the existing roadway, as well as widening and reconstruction.

16. Staff Experience:

	Firm employed by Hardesty & Hanover		
	Name	Frederick Wetekamm, III, PE	Years of relevant experience with this employer 7
	Title	Senior Project Engineer	Years of relevant experience with other employer(s) 29
	Degree(s) / Years / Specialization		M.E. / 2018 / Construction Management B.S. / 1984 / Civil Engineering
	Active registration number / state / expiration date		Professional Engineer: 25369 / LA / 3/31/2028 Certifications: Maintenance and Rehabilitation of Historic Bridges (LADOTD); ATSSA Traffic Control Supervisor and Flagger; FHWA NHI #139005, Driven Pile Foundations – Construction Monitoring
Year registered	1993	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Constructability Review
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 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Constructability Review Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design. Coordinated with Entergy New Orleans for ROW use for the new connector roads, US Army Corps of Engineers for reconstruction of the existing roadway over the floodwall, and CSX railroad for implementing a schedule for track time during the construction phase.		
01/19 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Constructability Review Engineer for the widening of the existing four-lane Lapalco Blvd to provide a facility carrying three lanes of traffic in each direction and the design of the new three-lane double bascule movable bridge crossing of Harvey Canal. The new bridge is constructed as an independent structure adjacent and north of the existing bridge with a new operator house. All roadway approaches and intersections in the vicinity of the bridge (eastbound and westbound) will be redesigned. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The existing bridge will be modified to carry a pedestrian and bicycle path. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. The scope of work includes development of a Traffic Control Plan, thorough inspection of the existing bridge, survey, and geotechnical engineering as well as updating the existing Environmental Assessment. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.		

08/18 – 08/21	Lake Pontchartrain Causeway Safety Bay Improvements (CE&I), Jefferson and St. Tammany, LA – GNOEC Project Engineer responsible for providing construction engineering and inspection services required during the safety bay improvement project for fabrication of pre-stressed piles and girders, caps and decks as well as all other construction activities including field monitoring, documentation, preparation of daily reports, participation in construction progress meetings, construction close-out and testing and acceptance of construction materials.
09/22 – Present	I-10 & I-12 College Dr Flyover Ramp Design- Build, Baton Rouge, LA – LADOTD Construction Quality Control Manager for design and construction quality control/quality assurance for this road and bridge design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will develop, maintain, and update Contractor Quality Management Plan and provide qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications and testing and acceptance of construction materials.
02/23 – Present	H.015028.6 Bayou Barataria Movable Bridge Replacement (CE&I), Phase 1, LA 302, Jefferson Parish, LA - LADOTD Project Engineer responsible for managing construction contract administration and construction engineering and inspection services for the Bayou Barataria Movable Bridge Replacement. This project consists of construction of the movable swing span bridge, operator's house, associated substructure elements, and pier protection system along relocated LA 302 in Jefferson Parish. Phase 2 consists of construction of new roadway alignment for LA45 to tie into LA 302 in Jefferson Parish. Assisted in coordination of utility location and relocations for Entergy, Cox, Jefferson Parish Water Dept. and Alpine Exploration (LNG lines).
07/07 – 08/18	S.P. No. 742-36-0117 Fleur De Lis Drive Reconstruction Phase II – Veterans Blvd to 30th Street, Orleans Parish, LA – LADOTD Project Engineer in responsible charge providing construction engineering inspection services for the Fleur De Lis Roadway Rehabilitation Projects Phases 1, 2, and 3 Program which were complete reconstruction of the roadway and drainage. Coordinated utility conflict resolutions with Entergy, Entergy Gas, and Sewerage and Water Board.
07/07 – 11/10	South Louisiana Submerged Roads Program, Orleans Parish, LA – LADOTD Project Engineer in responsible charge providing construction engineering and inspection services for the South Louisiana Submerged Roads Program which provided repairs and resurfacing of 56 roads in Orleans, Jefferson, and St Bernard Parishes that were damaged from Hurricane Katrina. The project was funded by FHWA's Emergency Relief Program. Responsibilities included testing and acceptance of construction materials. Provided diligent oversight on the program and closely monitoring activities; coordinated revised construction method with the Construction Program Manager to save over \$10 million for additional roadways to be added to the programs.
11/15 – 03/18	S.P. No. 006196 Wisner Bridge Replacement, Orleans Parish, LA – LADOTD Project Engineer in responsible charge for contract administration, supervision of the Project Engineer, and LADOTD Certified Inspectors for construction inspection. This project scope was to replace the 1955 bridge over I-610 and Norfolk Southern Railroad with a new structure. The 1,500-ft-long new bridge consists of prestressed concrete pilings, with a combination of precast prestressed concrete girder spans and steel girder spans over I-610. Coordinated with Norfolk Southern for track time during construction for setting girders and bridge concrete work over the track. Worked with the Designer/Engineer of Record, City of New Orleans, and the LADOTD Program Manager from the inception of the project to provide the most effective design to meet the current needs of the public utilizing the current LADOTD BDEM and LSSRB. The bridge provides a dedicated protected bike lane.
01/07 – 12/17	Area Engineer, LADOTD, District 02, LA – LADOTD Project Coordinator in responsible charge providing for direct oversight on all construction projects including five bridge replacement projects, six roadway restoration projects, the federally funded Submerged Roads Program (55 streets, \$118 million), the federally funded Paths to Progress Program (69 streets, \$90 million), the Regional Transportation Management Center (\$13.9 million), and several Corps of Engineers flood protection projects on the state ROW. As the Department Coordinator, provided technical oversight, interpretation, and review on department standards, policies, testing and inspection procedures, funding expenditures, and documentation; and constantly monitored the quality control methods of contractors, quality assurance expectations of consultants, traffic control plans, project schedules (bar chart and CPM), change orders, and pay requests to confirm compliance with the contract requirements. Provided diligent oversight on the program and closely monitoring activities; coordinated revised construction method with the Construction Program Manager to save over \$10 million for additional roadways to be added to the programs. Provided necessary coordination with utilities and railroads for projects.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover	
	Name	John Rayer, PE	Years of relevant experience with this employer	2
	Title	Roadway Engineer	Years of relevant experience with other employer(s)	6
	Degree(s) / Years / Specialization		BS / Civil Engineering / 2018	
Active registration number / state / expiration date			Professional Engineer: 47089 / LA / 03/31/2027	
Year registered	2022	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Project Engineer	
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.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Roadway Engineer for the widening of the existing four-lane Lapalco Blvd to provide a facility carrying three lanes of traffic in each direction and the design of the new three-lane double bascule movable bridge crossing of Harvey Canal. The new bridge is constructed as an independent structure adjacent and north of the existing bridge with a new operator house. All roadway approaches and intersections in the vicinity of the bridge (eastbound and westbound) will be redesigned. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The existing bridge will be modified to carry a pedestrian and bicycle path. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. The scope of work includes development of a Traffic Control Plan, thorough inspection of the existing bridge, survey, and geotechnical engineering as well as updating the existing Environmental Assessment. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.			
10/24 – Present	H.014530 Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Roadway Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and construction inspection services required for the partial replacement of the Almonaster Ave Bridge, a movable Strauss-heel trunnion bridge. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920 bridge revealed that improvements to the electrical and mechanical systems, superstructure, and counterweight were required to return this bridge to its full operating capability. Although the existing substructure could remain, modifications were deemed necessary to accommodate the rehabilitated superstructure.			
11/24 – Present	SR 33 Roadway Replacement, Franklin County, MS – Mississippi DOT Roadway Engineer for the Phase A Final Right-of-Way Plans for roadway design and roadway hydraulic design for four bridge replacements along SR 33 (Bridge Nos. 31.9, 34.6, 34.9, and 35.3). The project scope includes roadway realignment, roadway hydraulic design, preliminary right-of-way design, and final right-of-way design. H&H is providing the realignment of the roadway to run parallel to the existing and redesigning of one intersection at the end of the project. H&H developed a hydraulic study and report to resize the existing pipes, if necessary, and to verify sizing for a reinforced box culvert. A set of preliminary right-of-way plans were created following MDOT guidelines and using the approved alignment from MDOT. Final right-of-way plans will be delivered after hydraulic design and roadway design have been finalized and a plan set has been created.			

02/22 – 10/23	H.008220 LA 406: Roundabout at F Edward Hebert Blvd. Lead Roadway Designer and Plan Developer for this high-speed roundabout project in Plaquemines Parish, Louisiana. The roundabout is located at the intersection of LA 406, F Edward Hebert Blvd., and Keating Dr. John was responsible for the geometric design of the roundabout, drainage design, and sequencing of construction. John worked on the project through 95% Final Plans in 2023. The estimated project cost at the time was \$3,000,000 to \$4,000,000. This project is on schedule to bid in early 2025.
04/24 – Present	H.009730.5 SNBI Data Collection, Statewide, LA - LADOTD Engineer responsible for retrieving, verifying, and entering the Specifications for the Nation Bridge Inventory (SNBI) data into InspectX for the bridges statewide for Louisiana Department of Transportation and Development (LADOTD). Tasks include review of pertinent documents such as rehabilitation plans, as-built plans, shop drawings, and inspection reports. These documents will be obtained from various LADOTD offices including General Files, Bridge Design Section, Bridge Maintenance Section, and District offices. Necessary information will be collected from the site when such information is unavailable from the plans.
01/21 – 12/23	H.012001 – LA 339: Canal & Creek Bridges, Various Locations, LA – LADOTD Roadway Engineer for this bridge replacement project. The goal of the project was to replace three existing bridges with new, reinforced concrete box culverts on LA 339. John developed the 60% final roadway plans and calculations as well as the cost estimates for each phase of the project. The estimated cost for this project at 60% Final Plans was approximately \$2,500,000. This project is scheduled to bid in 2025.
06/21 – 10/22	H.008358 – Black Bayou Bridge, Madisonville, LA – LADOTD Roadway Engineer for this bridge replacement project in Madisonville, Louisiana along the Tchefuncte River on LA 1077. John's role for the project was to develop the alignment of the roadway and the diversion roadway for construction. John also developed the cost of construction for the roadway aspects of the project. The construction cost of the project at bid was \$4,291,639.25.
01/21 – 11/22	H.010885 – LA 91: Bayou Plaquemine Brule BR Replacement, Acadia Parish, LA – LADOTD Roadway Engineer for this bridge replacement project in Acadia Parish, LA. The existing pontoon bridge was to be replaced with a new bridge that met vertical requirements for boat traffic. John's responsibilities as Roadway Designer including creating an alignment for the new bridge to reconnect to the existing roadways. The bridge and roadway needed to be lengthened and raised substantially more than was originally proposed to allow for adequate vertical clearance in the waterway, which resulted in the project being put on hold due to the added construction costs.
06/18 – 8/20	I-10 Widening through Baton Rouge, Baton Rouge, LA – LADOTD Roadway Designer for this project which consisted of developing alternatives and cost estimates for the expansion of I-10 through Baton Rouge, Louisiana from the I-10/I-12 split to LA 415. John's role for this project was to calculate the quantities and costs. After presenting alternatives and developing estimates, the final estimated cost, with contingencies, was approximately \$1 billion.
06/18 – 12/20	LA 336, Breaux Bridge, LA – LADOTD Roadway Designer for this restoration project located in downtown Breaux Bridge, Louisiana. The project consisted of the restoration of a historical lift span bridge. John's responsibilities on this project included developing calculations and drawings for the lift and bridge sections.
01/23 – 10/24	Emerald Forest Blvd. to LA 59 Expansion Study, Covington, LA – St. Tammany Parish Roadway Engineer for this project consisting of an alignment study for a new roadway to be proposed between US 190 and LA 59 in Covington, Louisiana. John's responsibilities on this project included developing three alternatives to present to St. Tammany Parish. Each alignment consisted of multiple roundabouts at intersections along the proposed roadways.
09/24 – Present	US 90 Bridge Replacement, Terrell County, TX – TxDOT Roadway QC Reviewer for the replacement of two US 90 bridges at Sanderson Canyon. One of the existing bridges is 322 ft. long, with eight spans of approximately 40 ft. each, and the new bridge will be 339 ft. long with three spans of 113 ft. each. The other existing bridge is 520 ft. long with 13 spans of approximately 40 ft. each and is over existing UPRR tracks; the new bridge will be 623 ft. long with four spans varying from 138 ft. to 150 ft. each. John's responsibilities include independent review of bridge plans prepared by the prime.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover		
	Name		Robert Hideck, PE	Years of relevant experience with this employer	12
	Title		Senior Roadway Engineer	Years of relevant experience with other employer(s)	11
	Degree(s) / Years / Specialization		B.S. / 2002 / Civil Engineering		
	Active registration number / state / expiration date		Professional Engineer: 41953 / LA / 03/31/2028		
Year registered		2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Senior Roadway Design Engineer – Meets MPR 3		
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).			
01/21 – 02/25		SR 826/Palmetto Expressway Capacity Improvement Design-Build, Miami-Dade County, FL – Florida DOT Engineer of Record responsible for roadway, traffic control, tolling, and S&PM design services for this project in an urban setting . This project improves operations with an additional SB General purpose lane, auxiliary lanes, and improved shoulder widths, requiring major modifications to the NW 103rd St interchange. The project also includes revised access to the NB and SB revises express lanes, requiring a new toll site and improvements to the adjoining frontage road system. H&H is the lead designer, responsible for roadway, drainage, permitting, traffic control, tolling, and bridge design.			
11/20 – Present		H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Roadway Design Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.			
11/24 – Present		SR 33 Roadway Replacement, Franklin County, MS – Mississippi DOT Senior Roadway Engineer for the Phase A Final Right-of-Way Plans for roadway design and roadway hydraulic design for four bridge replacements along SR 33 (Bridge Nos. 31.9, 34.6, 34.9, and 35.3). The project scope includes roadway realignment, roadway hydraulic design, preliminary right-of-way design, and final right-of-way design. H&H is providing the realignment of the roadway to run parallel to the existing and redesigning of one intersection at the end of the project. H&H developed a hydraulic study and report to resize the existing pipes, if necessary, and to verify sizing for a reinforced box culvert. A set of preliminary right-of-way plans were created following MDOT guidelines and using the approved alignment from MDOT. Final right-of-way plans will be delivered after hydraulic design and roadway design have been finalized and a plan set has been created.			
07/17 – 06/20		Orlando South Ultimate Interchange Improvements – Florida’s Turnpike Enterprise Senior Roadway Engineer assisting with concept development, coordination, and project oversight of a complex interchange, including system and service movements this project in urban setting. The project includes an evaluation of a complex interchange that provides both direct and indirect ramping between Orange Blossom Trail and the adjacent two limited access highways. The project goals included: construction of direct connection ramps between freeways, an ultimate 10-lane typical section of the turnpike, implementation of AET, consideration of express direct connections, and improvement of surface street operations with two new reliever interchanges.			

07/16 – 9/21	SR A1A North Bridge Replacement, Fort Pierce, FL – Florida DOT Roadway Design Engineer for the planning and design of a new high-level fixed bridge in an urban setting which carries SR A1A and the East Coast Greenway over the Intracoastal Waterway, FEC Railroad, and Old Dixie Highway. Scope included staged construction to maintain traffic, elimination of at-grade rail crossing, design of new roadway alignments and access roads, and integration of an observation deck. H&H coordinated extensively with utilities, FEC Railroad, adjacent businesses, and permitting agencies. The project also included geotechnical, drainage, hydrogeology, lighting, signals, signage, and maintenance of traffic for both vehicular and marine users.
09/15 – 12/18	44th Ave E from 45th St E to 44th Ave Plaza E, Braden River Segment, Manatee County, FL – Manatee County Roadway Engineer of Record/Senior Roadway Engineer responsible for roadway and traffic control design and plans preparation. The project included the design for the reconstruction and extension of 44th Ave East from 45th St East to 44th Ave Plaza East. The design plans include reconstruction from a two-lane roadway to a four-lane divided urban roadway. A new bridge was designed to cross over the Braden River, as well as a realignment of Morgan Johnson Rd and Caruso Rd to provide route continuity.
01/16 – 05/18	I-75 SB Off-Ramp from S of Bypass Canal to EB/WB I-4, Hillsborough County, FL – Florida DOT Roadway Engineer responsible for the roadway and temporary traffic control design and plans preparation for this two-mi. roadway improvement project in an urban setting that included ramp widening, an extension of the ramp to provide off-line queueing, and an extended auxiliary lane on I-75. A unique aspect of the design team's approach was incorporation of operational improvements into a long-term buildout. This project was expedited for construction based on no right of way acquisition or impact to Florida Gas Transmission lines.
01/16 – 06/23	Sand Lake Rd (SR 482) Interchange, Orange County, FL - Florida's Turnpike Enterprise Senior Roadway Engineer responsible for the traffic control design and plans preparation for this project in urban setting. As a sub-consultant, H&H prepared the temporary Traffic Control Plans design for the construction of a new interchange located on the Florida Turnpike and Sand Lake Rd (SR 482) in Orange County, Florida. As part of H&H's innovative design, ramp construction took place early to allow mainline traffic to be diverted during off peak hours while bridge reconstruction over the Turnpike is ongoing.
04/17 – 05/23	SR 75 (US 231) from SR 30A (US 98) to Pipeline Road, Panama City, FL – Florida DOT Engineer of Record responsible for design and preparation of roadway, signing and pavement marking, and temporary Traffic Control Plans this project in urban setting. H&H is providing design services for the single point urban interchange (SPUI) at SR 77 over US 231 and CSX RR improvement project. Work includes design for roadway and drainage design of the intersection, lighting design for the entire project, and bridge design for a new 840-ft. steel bridge.
03/07 – 10/13	Veterans Expressway (SR 589) Widening from Memorial Highway to Gunn Highway – Florida's Turnpike Enterprise Project Engineer responsible for roadway design, preparation of plans, coordination of sub-consultants and multiple disciplines, post-design services, and civil/site design for six toll sites this project in urban setting. As part of the expansion, the existing conventional cash toll collection method was converted to an AET collection method. The project included two full interchanges and four partial interchanges. Due to the proximity to the Tampa International Airport, aviation permits were required throughout the project corridor and extensive coordination was required with the FAA. This activity included meeting with aviation agency staff and the design team to adjust design element locations and/or elevations for the acquisition of FAA determinations required for HCAA permits. The project included the milling and resurfacing of the existing roadway, and widening and reconstruction.
03/15 – 03/17	Fort Hamer Bridge Approaches, Upper Manatee River Rd to Fort Hammer Road, Manatee County, FL – Manatee County Project Roadway Engineer responsible for roadway and temporary Traffic Control Plans. This project included the design of over a mile of approach roadway for a new bridge over the Manatee River, connecting Upper Manatee River Rd with Fort Hamer Road. The project was designed for stage construction with the two lanes being delivered with initial construction.

16. Staff Experience:

	Firm employed by Hardesty & Hanover			
	Name	Erik Diaz, PE	Years of relevant experience with this employer	7
	Title	Senior Civil Engineer	Years of relevant experience with other employer(s)	11
	Degree(s) / Years / Specialization		B.S. / 2008 / Civil Engineering	
	Active registration number / state / expiration date		Professional Engineer: 37712 / LA / 09/30/2027 Certifications: NHI 130056 Safety Inspection of In-Service Bridges; Maintenance and Rehabilitation of Historic Bridges (LADOTD); NHI 130081 Load and Resistance Factor Design (LRFD) For Highway Bridge Superstructures; NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges	
Year registered	2013	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway Design Engineer	
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 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Project Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. Erik provided the design of steel plate girders for the bridge. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements.			
08/19 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Senior Project Engineer for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. A comprehensive Traffic Control Plan was developed to maintain traffic flow along Lapalco Boulevard throughout construction, minimizing impacts to the traveling public on this critical Westbank corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. All roadway approaches and intersections in the vicinity of the bridge (eastbound and westbound) will be redesigned. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. The scope of work includes development of a Traffic Control Plan, thorough inspection of the existing bridge, survey, and geotechnical engineering as well as updating the existing Environmental Assessment. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan			

	coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction. Erik also provided the design of steel plate girders for the bridge.
02/22 – 02/25	SR826 Palmetto DB Design and Post, Miami-Dade County, FL – Florida DOT Project Engineer for this project which improves operations with an additional SB General purpose lane, auxiliary lanes, and improved shoulder widths, requiring major modifications to the NW 103rd St interchange. The project also includes revised access to the NB and SB express lanes, requiring a new toll site and improvements to the adjoining frontage road system. H&H is the lead designer, responsible for roadway, drainage, permitting, traffic control, tolling, and bridge design. The design requirement was to keep the existing bridge and roadways open to traffic while widening construction was being performed. H&H performed design calculations for concrete superstructure and steel substructure elements for bridge widening and created details and plan sheets for superstructure and substructure elements for bridge widening.
04/25 - Present	H.013818 Vertical Lift Bridge Rehabilitation/Replacement, Golden Meadow, LA - LADOTD Project Manager for the rehabilitation of the LA 308 Bayou Lafourche-Golden Meadow vertical lift bridge. H&H is providing final plans, technical special provisions, and construction cost estimates. The roadway scope includes development of a Level 2 Traffic Management Plan in accordance with EDSM VI.1.1.8, addressing temporary traffic control for lane closures, detour routing along State Routes LA 1 and LA 308 during bridge closures, evacuation strategies, and coordination with Lafourche Parish, with relevant DOTD Temporary Traffic Control Standard Details incorporated into the final plans. Roadway approach work includes geometric layout for a reconfigured operator parking lot with two new asphalt parking spaces, sidewalk extensions connecting the bridge to the parking area, attenuators for bridge rails, and new striping, pavement markings, and stop lines coordinated with new warning signals, along with sheet pile walls to stabilize the bulkhead and concrete bollards for impact protection. The project also includes replacement of the approach spans with new 5-foot sidewalks, curbs, and new pile-supported concrete platforms combining traffic gates, generator, and movable barriers. Supporting structural, mechanical, electrical, and architectural rehabilitation scope includes replacement of the lift span and grid deck, fender system, span drive machinery and brakes, counterweight ropes and sheaves, span locks, the entire electrical system with new VFD-based controls and CCTV, and a complete renovation of the historic operator's house, with the goal of returning the bridge to reliably operate for an additional 30 to 40 years
12/16 – 11/18	Widening of I-12 Bridges in Livingston Parish, Livingston Parish, LA - LADOTD Project Engineer for this project located on the heavily traveled I-12 in Livingston Parish, LA. Existing bridge traffic was required to be maintained during construction. The project included the widening of approach roadways, slab span bridges, PPC girder span bridges, and pile bent substructures. He developed plans for roadway widening and safety improvements. The project included construction engineering support by reviewing submittals and RFIs.
02/22 – 08/24	CapEx Central South, Austin, TX – TxDOT Design Engineer for this project to reconstruct a portion of IH35 between Holly Street and SH 71/Ben White Boulevard. The proposed improvements include reconstructing IH 35 mainlines and frontage roads, adding NB and SB non-tolled managed lanes, reconstructing ramps, improving frontage road, reconstructing intersections and bridges at Riverside, Woodland Ave, and Lady Bird Lake, and constructing a deck park at Woodland Ave.
06/22 – 08/23	SR-609 Movable Bascule Bridge Rehabilitation, IDIQ Master Bridge Design Contract, Ocean Springs, MS – Mississippi DOT Design Engineer/Inspector responsible for the design, plan review, and quality control for full rehabilitation of SR-609 bascule bridge as a task-order to the IDIQ Master Contract, which includes engineering assessment, structural and geotechnical design for bridges and retaining walls; hydraulic design for bridges; design for roadway, traffic signals plans, ITS, and roadway lighting; as well as design and constructability review services. All designs will be completed in accordance with AASHTO, FHWA, and MDOT guidelines and specifications.
11/21 – 01/23	H.014363.5 Sidewalk Improvements to Conform to ADA Guidelines, Slidell, LA – LADOTD QA/QC Lead for various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert Blvd) with US 190 (Gause Blvd) in the city limits of Slidell, Louisiana, then continues North along LA 1091 for 2.0+/- miles to a location 175 ft. north of the intersection of LA 1091 with Country Club Blvd. The survey will extend along all major side roads 50 ft. from the PT of the curbing in each direction. The project includes providing various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines.

16. Staff Experience:

	Firm employed by Hardesty & Hanover		
	Name	Linh Kim, PE	Years of relevant experience with this employer 5
	Title	Civil Engineer	Years of relevant experience with other employer(s) 2
	Degree(s) / Years / Specialization		B.S. / 2017 / Civil Engineering
Active registration number / state / expiration date		Professional Engineer: 47527 / LA / 9/30/2027 Certifications: NHI 130081 Load and Resistance Factor Design (LRFD) For Highway Bridge Superstructures; ATSSA Traffic Control Supervisor and Flagger	
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Roadway Design Engineer	
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).		
02/21 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Assistant Project Engineer for the widening of the existing four-lane Lapalco Blvd to provide a facility carrying three lanes of traffic in each direction and the design of the new three-lane double bascule movable bridge crossing of Harvey Canal. The new bridge is constructed as an independent structure adjacent and north of the existing bridge with a new operator house. All roadway approaches and intersections in the vicinity of the bridge (eastbound and westbound) will be redesigned. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The existing bridge will be modified to carry a pedestrian and bicycle path. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. The scope of work includes development of a Traffic Control Plan. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.		
04/22 – 02/25	SR826 Palmetto Design-Build Design and Post, Miami-Dade County, FL – Florida DOT Design Engineer for this bridge located in downtown Miami urban area. The bridge design requirement was to keep existing bridge and roadways open to traffic while widening construction was being performed. H&H performed design calculations for concrete superstructure and steel substructure elements for bridge widening and created details and plan sheets for superstructure and substructure elements for bridge widening.		
09/20 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Assistant Project Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements.		

09/19 – 11/19	H.002176.5: LA 10 Bridges (Burton's Lake, Bayou HaHa, Bayou TawPaw) – LADOTD Civil Designer created General Plans set for three different bridges after receiving information from Road Design and Hydraulics. Linh contributed to the preparation of 60% Preliminary Plans Set to be sent out Hydraulics, Property Survey, and Subgrade Soil Survey sections.
11/21 – 01/23	H.014363.5 Sidewalk Improvements to Conform to ADA Guidelines, Slidell, LA – LADOTD Civil Designer for various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert Blvd) with US 190 (Gause Blvd) in the city limits of Slidell, Louisiana, then continues North along LA 1091 for 2.0+/- miles to a location 175 ft. north of the intersection of LA 1091 with Country Club Blvd. The survey will extend along all major side roads 50 ft. from the PT of the curbing in each direction. The project includes providing various design services including preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines.
09/22 – Present	I-10 & I-12 College Dr Flyover Ramp Design- Build, Baton Rouge, LA – LADOTD Civil Designer for design and construction quality control/quality assurance for this road and bridge design-build project which is located at the I-10 West exit to College Drive, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Responsibilities include the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will develop, maintain, and update Contractor Quality Management Plan and provide qualified Inspectors, material sampling, testing, independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.
07/20 – 12/22	SR-605 Movable Bascule Bridge over Industrial Waterway. Harrison County, MS – Mississippi DOTD Civil Designer assisting with the load rating calculations and analysis for full rehabilitation design of the SR-605 bascule bridge as a task-order to the IDIQ Master Bridge Contract. The scope includes engineering assessment; mechanical, electrical, and structural designs; and preparation of Traffic Control Plans. All designs will be completed in accordance with AASHTO, FHWA and MDOT guidelines and specifications.
08/20 – Present	H.001498.6; LA 24 and LA 16 Company Canal Vertical Lift Bridge, Bourge, LA – LADOTD Assistant Project Engineer delivering construction engineering and inspection services for a new vertical lift bridge and operator's house. Services include daily monitoring of all construction activities; maintaining all construction field records; coordinating with DOTD, contractor, parish government, and utilities; performing field testing; maintaining records of contractual operations, pay estimates and progress reports; preparing final estimate packages; conducting construction progress meetings; and construction close-out, etc.
09/19-11/19	H.002176.5: LA 10 Bridges (Burton's Lake, Bayou Haha, Bayou Tawpaw), Various Locations, LA - LADOTD Civil Designer created general plan sets for three different bridges after receiving information from Road Design and Hydraulics Sections. Prepared 60% preliminary plans set to be sent out Hydraulics, Property Survey, and Subgrade Soil Survey sections.
01/19 – 04/19	H.009498.5: LA 121: Calcasieu River Bridge, Lake Charles, LA – LADOTD Civil Designer designed and detailed an LG-36 (I-Beam) Concrete Prestressed Girder Bridge using continuous deck spans on a horizontal curve with a 5% slope. The continuous deck spans were 240-ft.-long using four 60-ft.-long deck spans with a bridge width of 42.5 ft. The superstructure and girders were designed using Bentley's Conspan software and DOTD's Bridge Design Evaluation Manual. The substructure consists of pile bents that were designed using STAAD Modeling software and Excel.
09/19 – 11/19	H.009482.5: LA 113: Jim Burney Branch Bridge – LADOTD Civil Designer contributing to the preparation of 60% final plans review and submittal. Linh completed revisions for initial design due to comments from the district and Project Engineer reviewer. He completed a bridge rating using AASHTOWare Bridge Rating software and STAAD Analysis.

16. Staff Experience:

	Firm employed by Hardesty & Hanover		
	Name	J. Webb Jones, PE	Years of relevant experience with this employer
	Title	Senior Highway Engineer	Years of relevant experience with other employer(s)
	Degree(s) / Years / Specialization		B.S. / 2001 / Civil Engineering
	Active registration number / state / expiration date		Professional Engineer: 56950 / FL / 2/28/2027
Year registered	2001	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Senior Roadway Design Engineer
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).		
01/21 – 02/25	SR 826/Palmetto Expressway Capacity Improvement Design-Build, Miami-Dade County, FL – Florida DOT Senior Roadway Engineer responsible for QC on this project. This project improves operations with an additional SB General purpose lane, auxiliary lanes, and improved shoulder widths, requiring major modifications to the NW 103rd St interchange. The project also includes revised access to the NB and SB express lanes, requiring a new toll site and improvements to the adjoining frontage road system. H&H is the lead designer, responsible for roadway, drainage, permitting, traffic control, tolling, and bridge design.		
07/17 – 06/20	Orlando South Ultimate Interchange, Orange County, FL - Florida's Turnpike Enterprise Senior Roadway Engineer assisting with concept development of alternatives. This project includes an evaluation of a complex interchange that provides both direct and indirect ramping between Orange Blossom Trail and the adjacent two limited access highways. The project goals included: construction of direct connection ramps between freeways, an ultimate 10-lane typical section of the turnpike, implementation of AET, consideration of express direct connections, and improvement of surface street operations with two new reliever interchanges. The recommended configuration included improvements to the systems interchange, modification to two adjoining interchanges, and new proposed service interchanges.		
01/16 – 12/17	I-75 (SR 93A) SB Off-Ramp from S of Bypass Canal to EB/WB I-4, Hillsborough County, FL – Florida DOT Project Manager/Engineer of Record responsible for project coordination and oversight. This two-mi. roadway improvement project included the addition of a new auxiliary lane for southbound I-75 from south of the Bypass Canal to the southbound off-ramp and widening the I-75 southbound off-ramp from one to two lanes. A unique aspect of the design approach was the incorporation of this design into a long-term buildout of the interchange. This project was expedited for construction based on no right of way acquisition or impacts to Florida Gas Transmission lines.		
07/16 – 9/21	SR A1A North Bridge Replacement, Fort Pierce, FL – Florida DOT Senior Roadway Engineer for the planning and design of a new high-level fixed bridge carrying SR A1A and the East Coast Greenway over the Intracoastal Waterway, FEC Railroad, and Old Dixie Highway. Scope included staged construction to maintain traffic, elimination of at-grade rail crossing, design of new roadway alignments and access roads, and integration of an observation deck. H&H coordinated extensively with utilities, FEC Railroad, adjacent businesses, and permitting agencies. The project also included geotechnical, drainage, hydrogeology, lighting, signals, signage, and maintenance of traffic for both vehicular and marine users.		
01/16 – 10/17	SR 826/Sunny Isle Twin Bridge Improvements, Sunny Isle, FL – Florida DOT Roadway Design Lead/Signing and Pavement Marking Engineer of Record responsible for signing and pavement marking and roadway design, as well as temporary traffic control (TTC) plans. The project included a vibration study of the bridge control house; design recommendations for improvements, public involvement, permitting, TTC plans, roadway, drainage, signing and pavement markings analysis and plans, and construction cost estimates. Both four-lane bridges have 16 spans with pre-stressed AASHTO concrete and steel beams and a double-leaf trunnion bascule span.		

01/16 – 12/23	Sand Lake Rd Interchange, Orange County, FL - Florida's Turnpike Enterprise Senior Roadway Engineer responsible for the temporary Traffic Control Plans design for the construction of a new interchange located on the Florida's Turnpike and Sand Lake Rd (SR 482) in Orange County, Florida. As part of an innovative design, ramp construction will take place early to allow mainline traffic to be diverted during off peak hours while bridge reconstruction over the Turnpike is ongoing. This project also includes coordination with FDOT District 5 and the reconstruction of Sand Lake Rd.
11/16 – 02/19	Gateway Express Improvements, Pinellas County, FL – Florida DOT Project Engineer responsible for technical oversight of temporary Traffic Control Plans. This project will deliver limited and controlled access connections from the Bayside Bridge on the north, US 19 on the west, and the St. Pete Clearwater International Airport to I-275 general purpose and new express lanes. H&H's scope on this design-build project includes contributing to FDOT's Alternative Technical Concepts (ATC) process; developing temporary traffic control plans design for Segments 2 and 4; project tolls design (four sites) for Segments 1, 2 and 4; and structures design for four bridges in Segment 4.
03/13 – 10/14	Central Polk Pkwy (Segment 1) from Polk Pkwy SR540 to SR 35 (US 17), Polk County, FL – Florida DOT Engineer of Record/Senior Engineer responsible for roadway design and plans production. This project required the use of Corridor Modeler software to aid in the design of a new six-lane expressway facility. The project included the design of a one-mi. new alignment, over two mi. of widening, and a new interchange at SR 540 including over two mi. of new ramp alignments. This segment was among several that were under design to complete the northeasterly connection of Central Polk Pkwy to I-4.
01/14 – 12/15	Gandy Blvd Bridge Approaches, Pinellas Count, FL – Florida DOT Senior Engineer responsible for QA/QC for the Traffic Control Plans for the construction of a 2.5-mi.-long segment of improved grade-separated lanes to increase capacity on the Gandy Bridge approach using design-build delivery. The project is 2.5 mi. long, includes three grade separations, and is being delivered substantially under budget with design-build delivery.
07/13 – 02/14	Turnpike Mainline (SR 91) Interchange at I-4 Design-Build, Orange County, FL – Florida's Turnpike Enterprise Project Engineer responsible for design and preparation of traffic control and roadway plans. The project included operational improvements, including mainline auxiliary lanes and ramp lane additions. A unique feature of the proposed design was a new ramp structure in lieu of widening to avoid FGT impacts.
04/17 – 03/20	SR 75 (US 231) from SR 30A (US 98) to Pipeline Road, Panama City, FL – Florida DOT Senior Roadway Engineer responsible for preparation of roadway and temporary Traffic Control Plans. The project consists of providing design services for the single point urban interchange (SPUI) at SR 77 over US 231 and CSX RR improvement project. The work includes roadway and drainage design of the intersection, lighting design for the entire project, and design for new 840-ft. steel bridge.
01/16 – 05/20	Districtwide Interstate Program Manager (IPM) – Florida DOT Senior Engineer responsible for concept development and review of plans. This multi-discipline, indefinite quantity contract provided as-needed services to support the Florida DOT work program for all interstate highway improvements in the five-county FDOT District region. The geographic limits include over 150 mi. of I-275, I-4, and I-75 and key contributing arterials.
07/12 – 02/15	SR 212 (Beach Boulevard) Landscaping from St. Johns Bluff Road to San Pablo Road, Duval County, FL – Florida DOT Engineer of Record/Senior Engineer responsible for design and production of traffic control plans. The project involved roadway design for over 5.6 miles, including landscaping and irrigation improvements for proposed bold landscaping within existing medians on Beach Boulevard, from St. Johns Bluff Road to San Pablo Road in Jacksonville.
07/23 – Present	SR 535 Interchange Improvements at I-4 & WB Express Lane Extension from west of SR 536 to west of Daryl Carter Parkway Design-Build, Orange County, FL – Florida DOT Chief Engineer responsible for temporary traffic control design and plans preparation. The interchange improvements will partially reconstruct I-4 and SR 535 (Apopka-Vineland Road) to enhance safety and improve access to and from westbound I-4. The extension project will add a single, buffer-separated, westbound managed lane to I-4 from west of SR 536 to west of Daryl Carter Parkway.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover		
	Name		Benjamin Bower, PE	Years of relevant experience with this employer	8
	Title		Roadway Engineer	Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization		B.S. / 2017 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer: 92137 / FL / 02/28/2027		
Year registered		2021	Discipline		Civil Engineering
Contract role(s) / brief description of responsibilities			Roadway Design Engineer		
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).			
01/21 – 02/25		SR 826/Palmetto Expressway Capacity Improvement Design-Build, Miami-Dade County, FL – Florida DOT Roadway Engineer assisting with roadway and temporary traffic control services. This project improves operations with an additional SB General purpose lane, auxiliary lanes, and improved shoulder widths, requiring major modifications to the NW 103rd St interchange. The project also includes revised access to the NB and SB revises express lanes, requiring a new toll site and improvements to the adjoining frontage road system. H&H is the lead designer, responsible for roadway, drainage, permitting, traffic control, tolling, and bridge design.			
07/17 – 06/20		Orlando South Ultimate Interchange at SR 91 (Florida’s Turnpike) and SR 528 (Beachline Express) PD&E Study – Florida’s Turnpike Enterprise Roadway Engineer responsible for assisting with concept development. H&H was prime consultant for the PD&E study for this complex systems interchange with imbedded service movements. Project goals included: construction of direct connection ramps between freeways, a planned ultimate 10-lane express typical section of the Turnpike, implementation of All Electronic Tolling, consideration of express direct connections, and modification of service movements to reduce interchange weaving. Constraints included a developed environment, adjacent major utilities, nearby interchanges, and the need to maintain traffic and tolling operations during construction. On a schematic basis, approximately 249 configurations were analyzed. The recommended configuration includes new direct systems ramps, braided ramps, and a Collector Distributor Roadway, as well as two new reliever interchanges on the Turnpike and Beachline Expressway. Modification to two adjoining interchanges, including reconfiguration of Consulate Drive as a Diverging Diamond Interchange.			
07/19 – 9/21		SR A1A North Bridge Replacement, Fort Pierce, FL – Florida DOT Roadway Engineer for the planning and design of a new high-level fixed bridge carrying SR A1A and the East Coast Greenway over the Intracoastal Waterway, FEC Railroad, and Old Dixie Highway. Scope included staged construction to maintain traffic, elimination of at-grade rail crossing, design of new roadway alignments and access roads, and integration of an observation deck. H&H coordinated extensively with utilities, FEC Railroad, adjacent businesses, and permitting agencies. The project also included geotechnical, drainage, hydrogeology, lighting, signals, signage, and maintenance of traffic for both vehicular and marine users.			
06/17 – 12/17		I-75/SR 93A SB Off-Ramp S of Bypass Canal to EB/WB I-4, Tampa, FL – Florida DOT Roadway Designer responsible for assisting with design and plans preparation. This two-mi. roadway improvement project included the addition of a new auxiliary lane for southbound I-75 from south of the Bypass Canal to the southbound off-ramp and widening the I-75 southbound off-ramp from one to two lanes. A unique aspect of the design approach was the incorporation of this design into a long-term buildout of the interchange. This project was expedited for construction based on no right of way acquisition or impacts to Florida Gas Transmission lines.			

06/17 – 12/23	Sand Lake Rd Interchange, Orange County, FL - Florida's Turnpike Enterprise Roadway Engineer assisting with the temporary Traffic Control Plans design for the construction of a new interchange located on the Florida's Turnpike and Sand Lake Rd (SR 482) in Orange County, Florida. As part of an innovative design, ramp construction will take place early to allow mainline traffic to be diverted during off peak hours while bridge reconstruction over the Turnpike is ongoing. This project also includes coordination with FDOT District 5 and the reconstruction of Sand Lake Road.
06/17 – 06/23	SR 75 (US 231) from SR 30A (US 98) to Pipeline Rd, Panama City, FL – Florida DOT Roadway Engineer assisting with plans production for roadway, temporary traffic control and S&PM on SR 77. He provided design services for the single point urban interchange (SPUI) at SR 77 over US 231 and CSX RR improvement project. Work included roadway, drainage, temporary traffic control, and S&PM design on SR 77. In addition, H&H designed the lighting for the entire project and designed a new 840-ft. steel bridge on SR 77.
06/21 – Present	Design of SR91 and SR528 Interchange MP 253 to S. of Sand Lake Rd (MP 257.25) – Florida's Turnpike Enterprise Roadway Engineer assisting with roadway analysis and plans development. The project includes new direct systems ramps, braided ramps, a relocation of SR 528, and modifications to adjoining interchanges, including a Diverging Diamond interchange on the first level. The design team worked closely with Turnpike traffic engineers to refine the design to include: an additional southbound Collector Distributor Road to relocate weaving from the mainline; reconfiguration of a low-volume ramp to economize the design; and development of a three-project phasing plan to deliver incremental improvements as needed with packaging less than \$200 million. In addition to managing the design of the project, H&H is responsible for roadway, bridge, drainage signing and pavement markings, and toll design, which includes six new All Electronic Tolling Sites.
05/21 – Present	46th Ave N Sidewalk Design, Pinellas County, FL – Pinellas County Roadway Engineer responsible for assisting with roadway design and plans preparation. This project consists of reconstruction of the existing roadway, extension of the existing box culvert in both directions, construction of ADA compliant sidewalks, curb ramps, and driveways on both sides of road and incidental work along 46th Ave North, from West of Drainage Outfall along 55th St North right of way corridor to 49th St North (a length of approximately 0.5 mi.). H&H is responsible for roadway/sidewalk design, structural design, traffic control, signing, and pavement marking.
06/17 – 02/17	SR 968/SW 1st St Bridge at Miami River, Miami, FL – Florida DOT Roadway Designer responsible for assisting with roadway approaches and temporary traffic control design. SR 968 is an Urban Minor Arterial. This bridge replacement project is along the SW 1 st St corridor from SW 6 th Ave to SW 2 nd Ave. The existing four-lane, one-way bridge was replaced with a new three-lane, one-way bridge, and included roadway improvements east and west of the bridge, bike lanes, sidewalks, and signing and pavement markings. The roadway east and west of the bridge was reconstructed to provide an urban roadway section with a revised profile using new curb, three through lanes, an eight-ft. parking lane along both sides, and variable width sidewalks against the back of curb on both sides of the road. This project was located in constrained right of way conditions where there could not be impacts to adjacent properties.
06/17 – 02/19	Gateway Expressway Improvements Design-Build, Pinellas County, FL – Florida DOT Roadway Designer responsible for assisting in the development of the preliminary design to this improvement project. For this design-build project, H&H is developing TCPs for Segments 2 and 4; TCP coordination among Segments 1 through 4; tolls design for Segments 1, 2, and 4; and structure design for four bridges in Segment 4.
06/17 – 06/21	Homestead Extension of Florida's Turnpike (SR 821) from S of Killian Pkwy to N of Sunset Dr Design-Build, Miami, FL - FL Turnpike Enterprise Roadway Designer assisting with plans production for roadway and S&PM of the surface streets and overall project temporary traffic control. This design-build procurement comprises widening of the mainline HEFT (SR 821) from south of Killian Pkwy to just north of Sunset Dr. Primary services included development of express lanes, relocation of ramp tolling, and operational improvements to the Kendall Dr interchange as well as resurfacing and other minor improvements.

16. Staff Experience:

	Firm employed by Hardesty & Hanover		
	Name	James Wolczynski, PE	Years of relevant experience with this employer 4
	Title	Senior Lead Highway Engineer	Years of relevant experience with other employer(s) 22
	Degree(s) / Years / Specialization		B.S. / 2004 / Civil Engineering
	Active registration number / state / expiration date		Professional Engineer: 76828 / FL / 02/28/2027
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Roadway Design Engineer
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).		
05/22 – 02/25	SR 826/Palmetto Expressway Capacity Improvement DB, Miami-Dade County, FL - Florida DOT Senior Engineer responsible for roadway design and signing and pavement markings. This project improves operations with an additional SB General purpose lane, auxiliary lanes, and improved shoulder widths, requiring major modifications to the NW 103rd Street interchange. The project also includes revised access to the NB and SB revises express lanes, requiring a new toll site and improvements to the adjoining frontage road system. H&H is the lead designer, responsible for roadway, drainage, permitting, traffic control, tolling and bridge design.		
07/17 – 06/20	Orlando South Ultimate Interchange Improvements – Florida’s Turnpike Enterprise Senior Roadway Engineer assisting with concept development, coordination, and project oversight of a complex interchange, including system and service movements this project in urban setting. The project includes an evaluation of a complex interchange that provides both direct and indirect ramping between Orange Blossom Trail and the adjacent two limited access highways. The project goals included: construction of direct connection ramps between freeways, an ultimate 10-lane typical section of the turnpike, implementation of AET, consideration of express direct connections, and improvement of surface street operations with two new reliever interchanges.		
08/22 – Present	I-75 at SR 951 Interchange DB, Collier County, FL - Florida DOT Senior Engineer responsible for developing the traffic control design. This project consists of the reconstruction of the I-75 at SR 951 Interchange from the existing Diamond Interchange to a Partial Cloverleaf Interchange with two connection ramps over SR 84/Davis Boulevard, from and to CR 951 (Collier Boulevard), to provide for the “Ultimate Configuration”.		
3/17 – 9/19	Courtney Campbell Causeway (SR 60) DB, Hillsborough County, FL - Florida DOT Lead Roadway/Traffic Control Engineer responsible for the design of horizontal and vertical alignments, maintenance and protection of traffic, typical sections, cross sections, profiles, and utility adjustment plans. Other responsibilities included pavement design package, superelevation design calculations, quantity calculations, coordination with all subconsultants, supervising plans preparation and assisted Contractor and Design Project Manager with post design services. The project consists of constructing a 300-foot bridge on SR 60, west of Ben T. Davis Beach, to improve the water circulation and quality in Old Tampa Bay and restore tidal flows to the northeast portion of the Bay.		
02/23 – Present	28th Street Sidewalk from 40th Avenue N to 54th Avenue N, Pinellas County, FL - Pinellas County Senior Engineer supporting the roadway design and quality control for the project. This project consists of the design for ADA compliant sidewalks, curb ramps and driveways along 28th Street, approximately 0.9 miles.		

12/22 – Present	North Causeway Bridge over ICWW, Fort Pierce, FL - Florida DOT Senior Engineer responsible for post design activities for the replacement of the North Causeway bascule bridge with a high-level fixed bridge offering an 85-foot vertical clearance. Services included the roadway geometry and segmental bridge super and substructure design. Additional roadway design services included addressing adjacent state, frontage, and access roads, and railway crossings affected by the project.
05/19 – 03/22	US 41/SR 45 Resurfacing from North of 15th Avenue South to South of Bullfrog Creek Bridge, Hillsborough County, FL - Florida DOT Project Engineer/Deputy Project Manager responsible for leading all correspondence with subconsultants and FDOT, wrote the design report and all design variations and exceptions, specifications package, geometric design, typical section and overbuild details, back of sidewalk profiles, intersection details, utility coordination, quantities, driveway and encroachment letters to property owners; led and managed production efforts to keep project on schedule and led post design efforts. The project consisted of 8.5 miles of milling and resurfacing of a four-lane divided principal arterial roadway thorough the Gibsonton, Ruskin, and Apollo Beach industrial and residential communities. The design for this corridor included adding sidewalk and ADA compliant bus landing pads, and providing bike lanes throughout the corridor. Due to high truck traffic traveling to and from I-75 to TECO Big Bend power plant and Mosaic, the US 41 and Big Bend Road intersection was reconstructed from asphalt to concrete pavement. A detailed Level II traffic control plan was developed for the Big Bend intersection reconstruction.
01/14 – 05/14	Northwest Corridor Design-Build, Cobb and Cherokee Counties, GA – Georgia DOT Segment Lead Roadway/Traffic Control Engineer responsible for the design of horizontal and vertical alignments for all bridge crossings in Segment B for this \$599 million design-build project, which consisted of 30 miles of reversible managed toll lanes along I-75 and I-575. James' other responsibilities included: design of maintenance of traffic plans for ramps along I-75 and I-575, superelevation design calculations, and assisted with the preparation of various Design Exceptions.
08/19 – 12/21	5th Avenue North Lane Reduction Study and Final Design Services, St. Petersburg, FL – Florida DOT District 7 Project Engineer/Deputy Project Manager responsible for the geometric design, temporary traffic control, pedestrian detours, special details, utility coordination, quantities; led and managed production efforts to keep project on schedule and led post design efforts. Subsequent to an operational analysis for traffic calming and bike/pedestrian accommodations on 5th Ave North between 4th Street North and 6th Street North, James provided milling and resurfacing and pavement marking restriping services for a lane reduction on this section of roadway. He also provided parallel parking along the segment. The project included drainage design and pedestrian improvements such as bulbouts for cross walks at 5th Street North and 6th Street North, widening of pedestrian curb ramps to 10-foot-wide, and the addition of a 10-foot-wide sidewalk along the south side of the roadway between 5th Street North to 6th Street North. The lane reduction is funded by a Local Funding Agreement (LFA) between FDOT and the City of St. Petersburg. The design services require close coordination with FDOT as 5th Ave North is a state-owned roadway and maintained by the Department.
04/17 – 09/19	US 301 (SR 39) from South of CR 54 (Eiland Boulevard) to North of Kossik Road, Pasco County, FL – Florida DOT Lead Roadway/Traffic Control Engineer responsible for leading the roadway design efforts for the improvements to US 301 (SR 39). The improvements include the widening of a four-lane rural facility to a six-lane low speed urban roadway with sidewalk, shared-use path, and bike lanes for this two-mile roadway segment. Roadway design includes four pavement designs, eliminating encroachments within the FDOT ROW, evaluating/modifying driveway connections, transit coordination, access management modifications, and improvements to six major intersections. Additional project elements include: survey, ROW mapping, off-site pond design, signing and pavement markings, signalization and interconnect upgrades, lighting, transit upgrades, utility coordination, SUE, traffic control plans, box culvert extensions, license agreements, and a public meeting.
02/16 – 07/19	SR 80 from Indian Hills Drive to CR 833, Hendry/Glades Counties, FL – Florida DOT Lead Roadway/Traffic Control Engineer responsible for leading geometric design and the development of roadway construction plans for this reconstruction project. James was responsible for and led traffic control and utility coordination efforts. SR 80 is a major east/west arterial providing connection to I-75, Fort Myers, US 27 and the east coast of Florida. The project widens the existing two-lane rural roadway to a four-lane divided rural roadway for six miles by adding two 12-foot lanes to the north that will serve as the westbound lanes. Existing lanes will be milled and resurfaced and converted to the eastbound lanes. The typical also includes a 64-foot grassed median and accommodations for a future five-foot sidewalk. Key project issues included minimizing ROW, drainage, permitting, and pond siting. Project elements include roadway and drainage design, temporary traffic control, traffic, signal warrant analysis, lighting, surveying and mapping, utility coordination, SUE, PD&E reevaluation, and environmental assessments.

16. Staff Experience:

	Firm employed by Hardesty & Hanover			
	Name	John Beatty, PE	Years of relevant experience with this employer	10
	Title	Senior Lead Highway Engineer	Years of relevant experience with other employer(s)	20
	Degree(s) / Years / Specialization		B.S. / 2006 / Civil Engineering B.S. / 2006 / Architectural Design	
Active registration number / state / expiration date			Professional Engineer: 0402066212 / VA / 02/28/2027	
Year registered	2023	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Senior Roadway Design Engineer	
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).			
02/13 – 08/15	I-295/I-76/Route 42 Direct Connection, Camden County, NJ – New Jersey DOT Highway Engineer work performed included geometric design (Vertical and Horizontal) for Bell Road which crosses I-295 and for the Wilson Drive/Victory Drive temporary connector street. This involved designing the vertical and horizontal profiles while following the standards set in the NJDOT Roadway Design Manual. Prepared detailed designs for numerous ADA/PROWAG compliant curb ramps. Utilized Inroads to create cross sections and define slope lines for several side streets. Aided in proposed pavement design for Rt. 42, I-76, I-295 and several ramps. Created CAD drawings that helped to distinguish the useable existing pavement from the non-useable existing pavement throughout the entire project area, based on core samples and as-built drawings. This helped to eliminate unnecessary costs associated with removal and reconstruction of good existing pavement. Created cross-sections for Rt. 42, I-76 & I-295 to aid in the design of temporary and proposed pavement. Helped to design the Individual Parcel Maps for the ROW submissions. Performed Construction Services including Change of Plans and RFI tracking for Contract 1 and Contract 2 for this \$900-million project consisting of one of the largest and most congested interchanges in southern New Jersey. From 26 alternatives, one alternative with a six-lane direct connection overpass alignment was chosen which includes the realignment of 6 ramps including one in a depressed section under I-76, 13 bridges, two culverts, 22 retaining walls, 42 sign structures, and numerous noise walls.			
02/12 – 12/15	Route 70 Red Lion Road (CR 685) to Dakota Trail, Burlington County, NJ – New Jersey DOT Deputy Project Manager & Lead Roadway Engineer for this \$10.2M, federally funded project to increase the profile and resurface 9.4 miles of the Route 70 roadway and improvements to two traffic signals including full signal redesigns, ADA curb ramps and pedestrian safety devices. The existing corridor was analyzed and re-designed to enhance pedestrian and traffic safety. John, from Concept Development through Preliminary Engineering and Final Design, was responsible for identifying substandard design elements, preparing a Design Exception Report and obtaining approvals for substandard elements to remain. Developed geometric designs of highway and streets to address many roadway deficiencies including stopping sight distance, intersection sight distance, substandard cross slopes, lane/ shoulder widths, superelevation, etc. Roadway design and construction plans included roadway section, horizontal geometry and profile for approach roadways to multiple intersections; detailed grading for intersection crossings and superelevation transitions; guide rail; ADA compliant curb ramps; improvements to two traffic signals; and installation of CCTV cameras at two traffic circles. Coordinated with traffic engineers in the preparation of traffic signage and striping plans to show new and revised intersection pedestrian crosswalks and roadway striping, and proposed sign installations. Traffic control and staging (MPT) plans were developed to identify all stages of construction and included provisions for pedestrians and bicyclists during each stage, and ITS plans. The project required evaluation of access point compliance with the NJ State Highway Access Management Code and assessment of drainage implications. Innovative FHWA Every Day Counts design elements were utilized including roadway safety edge and centerline rumble strips to increase the safety of the traveling public. Responsible for developing construction plans, engineering estimates and specifications using Trans-Port and Primavera Schedule.			

07/19 – 11/23	I-280 Rockfall Mitigation, Essex County, NJ – New Jersey DOT Project Manager for the limited scope final design and provided construction engineering services for this rockfall mitigation project. The project involved two rock cut-slopes, along a 0.5 mile stretch of I-280, that had a rating of 'moderate' on the RHRS. Performed horizontal and vertical geometric design of highways and streets including reconstruction and installation of new guide rails and interstate shoulder resurfacing. Design responsibilities included preparation of roadway berm sections, detailed grading, drainage and guide rail design. Developed traffic control and staging plans (MPT), traffic signing and striping plans, cross-sections and earthwork summary.
01/20 – 06/21	Route 35, Bridge over Edgar Felix Bicycle Path, Monmouth County, NJ – New Jersey DOT Project Manager for the concept development phase for replacement/rehabilitation of the structurally deficient Rt. 35 bridge over the Edgar Felix Bicycle Path, and intersection improvements at the Rt. 35 & CR 524 circle. The Rt. 35 bridge is 120' long and 60' wide and has been given a sufficiency rating of 79.9 and Priority Rank of 3 by NJDOT Bridge Management System (BMS).
01/17 – Present	Replacement of Forest Resource Education Center (FREC) Access Road Bridge over Toms River – New Jersey DOT Project Manager for the Preliminary Engineering and Final Design phase of this project to replace an existing timber bridge with a rigid three-side structure. The roadway is being widened by eight feet to provide a safe bicycle and pedestrian route, and there will be a two-foot increase in the roadway profile to achieve allowable freeboard over the waterway. John is responsible for identifying Controlling Substandard Design Elements – including superelevation; lane and shoulder width; clear width of bridge; cross slopes and profile grade; vertical and horizontal stopping sight distance, minimum curve radius; and preparing a Design Exception Report and obtaining approval for CSDEs to remain. Performed roadside grading and design, developed traffic signage and striping and traffic control and staging (MPT) plans. Coordinated survey efforts and reviewed existing Right-of-Way, Utilities and Environmental Constraints for potential impacts due to the proposed work. Design work included preparation of horizontal and vertical geometrics for approach roadways; detailed pavement grading; drainage and guide rail. Prepared the design of traffic signing and striping plans in conjunction with Traffic Engineering lead. Led the development of construction plans, engineering estimates and specifications using Trans-Port and Primavera Schedule. Prepared responses to contractor RFIs, reviewed shop drawings and coordinated with NJDOT, the RE and the contractor throughout the duration of construction.
02/16 – Present	ADA Central, Contract 1 Various Municipalities – New Jersey DOT Deputy Project Manager for the Preliminary Engineering and Final Design phase for this \$22M project to implement pedestrian safety improvements at signalized and unsignalized intersections along the U.S. Route 9 and State Routes 35 & 71 corridors. Scope involved identifying substandard Americans with Disabilities Act (ADA) design elements and developing conceptual designs for approval. Work efforts include the design of 706 ADA curb ramps, improvements to sidewalks, traffic striping, highway lighting as well as full and partial signal redesigns of 51 intersections. John was responsible for identifying substandard design elements, developing conceptual geometric designs for highway and streets for approval to address deficiencies, preparing detailed grading plans for ADA ramps and preparing traffic signage and striping plans to show new and revised midblock and intersection pedestrian crosswalks, bike lanes and stop bars, and proposed sign installations. Traffic control and staging (MPT) plans were developed to identify all stages of construction and to prepare a detour of traffic plan for full road closures. The MPT plans also included provisions for pedestrians and bicyclists during each stage. Technically Infeasible Forms (TIFs) for curb ramp design exceptions were prepared for locations where proposed ramps cannot fully comply with standards – all which were approved, and evaluation of access point compliance with the NJ State Highway Access Management Code and assessment of drainage implications. Responsible for developing construction plans, engineering estimates and specifications using Trans-Port and Primavera Schedule.

16. Staff Experience:

	Firm employed by Hardesty & Hanover		
	Name	Dalton Hunt, EI	Years of relevant experience with this employer 4
	Title	Civil Designer	Years of relevant experience with other employer(s) 0
	Degree(s) / Years / Specialization		B.S. / 2021 / Civil Engineering
Active registration number / state / expiration date		Engineer in Training: 35118 / LA / 9/30/2026 Certifications: ATSSA Traffic Control Supervisor and Flagger	
Year registered	2022	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Roadway Designer	
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).		
02/22 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana – Jefferson Parish DPW/LADOTD Civil Designer for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. A comprehensive Traffic Control Plan was developed to maintain traffic flow along Lapalco Boulevard throughout construction, minimizing impacts to the traveling public on this critical Westbank corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.		
01/22 – Present	H.014530: Almonaster Ave Railroad Bridge over the Industrial Canal, New Orleans, LA – Port of New Orleans/LADOTD Civil Designer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. The road design services include a new alignment for the connecting road, including all drainage structures. H&H developed a hydraulic study and site plan that includes several retention ponds for drainage improvements. All design work is according to LADOTD Standards and Specifications and reviewed by LADOTD. Project includes a variety of repairs on this steel Strauss Trunnion Bascule Bridge. Major work included replacement of components of the railroad floor system stringers and floor beams that rated lower than E-60 and replacement of deteriorated lateral connection plates. The cracked concrete on the rest pier in the area of the bearings was removed and replaced with higher strength concrete. The replacement and tightening of loose or missing fasteners throughout the		

	entire structure was also included in the repair scope. Scope included bridge design and repair plans, contract specifications, construction inspection, and construction support services.
03/22 – 10/23	H.014363.5 IDIQ Contract for ADA Design Projects Statewide, Slidell, LA – LADOTD Civil Designer responsible for the evaluation and consideration of current sidewalk features of Robert Blvd. in Slidell, LA. Plans were designed and revised in-house in preparation of the overhaul of sidewalks and adding of ADA compliant handicap ramps and landing areas along the roadway to bring the sidewalks up to current LADOTD standards. Services include preliminary plans, final plans, construction engineering, project proposal plans, and inspection for LADOTD Sidewalk Improvements to Conform to ADA Guidelines. The project begins at the intersection of LA 1091 (Robert Blvd) with US 190 (Gause Blvd) in the city limits of Slidell, Louisiana, then continues North along LA 1091 for 2.0+/- miles to a location 175 ft. north of the intersection of LA 1091 with Country Club Blvd. The survey will extend along all major side roads 50 ft. from the PT of the curbing in each direction.
09/22 – Present	I-10 & I-12 College Dr Flyover Ramp Design- Build, Baton Rouge, LA – LADOTD Field Engineer Intern for design and construction quality control/quality assurance for this road and bridge design-build project which is located at the I-10 West exit to College Dr, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Scope includes the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will develop, maintain, and update Contractor Quality Management Plan and provide qualified Inspectors, material sampling, testing, and independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.
12/23 – Present	H.015028.6 Bayou Barataria Movable Bridge Replacement (CE&I), Phase 1, LA 302, Jefferson Parish, LA – LADOTD Civil Designer responsible for providing construction contract administration and construction engineering and inspection services for: Bayou Barataria Movable Bridge Replacement. This project consists of construction of the movable swing span bridge, operator's house, associated substructure elements, and pier protection system along the relocated LA 302 in Jefferson Parish.
04/22 – 12/22	SR 605 Bascule Bridge over Industrial Waterway, Harrison County, MS – Mississippi DOT Civil Designer for the comprehensive rehabilitation of this bascule bridge over the Industrial Waterway. The work also included design and detailing of a new PPC pile-supported reinforced concrete generator platform. All designs are in accordance with AASHTO, FHWA, and MDOT guidelines and specifications. Load rating was performed using AASHTOWare BrDR load rating software.
06/22 – Present	H.002798.6 Bayou Teche Movable Bridge at Oaklawn, St. Mary Parish, LA – LADOTD Civil Designer assisting in the design, calculations, and plan preparation of the bridge power distribution and relay-based control system for this movable bridge located in St. Mary Parish, LA. The new through girder swing-span rotates with hydraulically actuated slewing (push-pull) cylinders.
07/23 – Present	H.009730.5 In-Depth Bridge Inspection of Complex Structures, Statewide, LA – LADOTD Inspector performing inspection of complex structures such as cantilever trusses, cable-stayed bridges, steel vertical lift bridges, and plate girder bascule bridges statewide under separate task orders. Inspection of two steel truss bridges (Jimmie Davis and Miller's Bluff) and a vertical lift bridge (West Fork) have been completed to date.
04/22 – Present	H.001498.6; LA 24 and LA 16 Company Canal Vertical Lift Bridge, Bourge, LA – LADOTD Field Engineer Intern delivering construction engineering and inspection services for a new vertical lift bridge and operator's house. Services include daily monitoring of all construction activities; maintaining all construction field records; coordinating with DOTD, contractor, parish government, and utilities; performing field testing; maintaining records of contractual operations, pay estimates and progress reports; preparing final estimate packages; conducting construction progress meetings; construction close-out, etc.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover		
	Name	Will Farber, EI		Years of relevant experience with this employer	1
	Title	Civil Designer		Years of relevant experience with other employer(s)	5
	Degree(s) / Years / Specialization		BS / 2018 / Civil Engineering		
Active registration number / state / expiration date			Engineer in Training: 33903 / LA / 03/31/2027		
Year registered	2018		Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway Designer		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/24 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Roadway Designer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.				
10/24 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Roadway Designer for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. A comprehensive Traffic Control Plan was developed to maintain traffic flow along Lapalco Boulevard throughout construction, minimizing impacts to the traveling public on this critical Westbank corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.				

11/24 – Present	SR 33 Roadway Replacement, Franklin County, MS – Mississippi DOT Roadway Designer for the Phase A Final Right-of-Way Plans for roadway design and roadway hydraulic design for four bridge replacements along SR 33 (Bridge Nos. 31.9, 34.6, 34.9, and 35.3). The project scope includes roadway realignment, roadway hydraulic design, preliminary right-of-way design, and final right-of-way design. H&H is providing the realignment of the roadway to run parallel to the existing and redesigning of one intersection at the end of the project. H&H developed a hydraulic study and report to resize the existing pipes, if necessary, and to verify sizing for a reinforced box culvert. A set of preliminary right-of-way plans were created following MDOT guidelines and using the approved alignment from MDOT. Final right-of-way plans will be delivered after hydraulic design and roadway design have been finalized and a plan set has been created.
11/18 – 10/20	Dynamic Roadway Evaluation of Various Bridges & Freeways, Statewide Delaware & San Francisco, CA –DelDOT & Caltrans Civil Designer for this roadway evaluation project. The project consisted of using Soundar to evaluate roadways while in motion. The Soundar is a mobile ultra-seismic sounding device that consists of 12 hammers and a microphone used to collect sounding data as it is pulled behind a truck traveling at about 10 mph. Will operated the Soundar machine, made repairs as necessary, and analyzed the results. Will worked on several parts of Delaware's interstate system as well as a few bridges in the San Francisco Bay area.
09/24 – Present	H.009730.5 SNBI Data Collection, Statewide, LA – LADOTD Roadway Designer for retrieving, verifying, and entering the Specifications for the Nation Bridge Inventory (SNBI) data into InspectX for the bridges statewide for Louisiana Department of Transportation and Development (LADOTD). Tasks include review of pertinent documents such as rehabilitation plans, as-built plans, shop drawings, and inspection reports. These documents will be obtained from various LADOTD offices including General Files, Bridge Design Section, Bridge Maintenance Section, and District offices. Necessary information will be collected from the site when such information is unavailable from the plans.
06/20 – 07/20	Nondestructive Evaluation of Brazos Dam, Possum Kingdom, TX – Brazos River Authority Civil Designer for the nondestructive evaluation of the Brazos dam. Will was responsible for taking concrete and rebar core samples of the base of the dam.
02/19 – 08/24	Various Surveying Projects, Statewide, LA - LADOTD Surveyor and Draftsman for various surveying projects across the State of Louisiana. Will provided necessary drafting with AutoCAD 2018-2024, Carlson, Civil 3D, InRoads, Revit, and Leica Infinity. He also performed work in the field using Leica total stations as well as other surveying equipment and Trimble equipment. The type of survey projects included: topography, hydrography/bathymetry, drone photogrammetry/scanning, ALTAs, ROW and roadwork surveys, construction, subdivision layout, re-subdivision (major and minor), property disputes, DSW pipe layout, and floodplain analysis.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover	
	Name	Courtney Mai, EI	Years of relevant experience with this employer	2
	Title	Civil Designer	Years of relevant experience with other employer(s)	3
	Degree(s) / Years / Specialization		B.S. / 2018 / Civil Engineering	
	Active registration number / state / expiration date		Engineer in Training: 35745 / LA / 09/30/2026	
Year registered	2024	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway Designer	
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).			
04/24 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Engineer Intern for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.			
04/24 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Engineer Intern for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. A comprehensive Traffic Control Plan was developed to maintain traffic flow along Lapalco Boulevard throughout construction, minimizing impacts to the traveling public on this critical Westbank corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.			

04/24 – Present	H.009730.5 SNBI Data Collection, Statewide, LA – LADOTD Engineer Intern for retrieving, verifying, and entering the Specifications for the Nation Bridge Inventory (SNBI) data into InspectX for the bridges statewide for Louisiana Department of Transportation and Development (LADOTD). Tasks include review of pertinent documents such as rehabilitation plans, as-built plans, shop drawings, and inspection reports. These documents will be obtained from various LADOTD offices including General Files, Bridge Design Section, Bridge Maintenance Section, and District offices. Necessary information will be collected from the site when such information is unavailable from the plans.
04/24 – Present	I-10 & I-12 College Dr Flyover Ramp Design- Build, Baton Rouge, LA - LADOTD Engineer Intern for construction quality control/quality assurance for this flyover ramp design-build project which is located at the I-10 West exit to College Dr, in advance of the I-10 & I-12 West merge. H&H serves as Design-Builder's Construction Quality Control Firm (CQCF) and oversees all Design Quality Control and Construction Quality Control activities for the project. Scope includes the development and implementation of Comprehensive Quality Plan to ensure the design and construction conforms to all specified requirements. H&H will develop, maintain, and update Contractor Quality Management Plan and provide qualified Inspectors, material sampling, testing, and independent testing labs to ensure contractors and off-site fabrication facilities meet project specifications.
06/24 – Present	H.009730.5 LADOTD Movable Bridge Manual, New Orleans, LA - LADOTD Engineer Intern responsible for the development of the LADOTD Movable Bridge Inspection Manual (including details, photos, illustrations, and specific examples); building a lesson plan and materials for the classroom training from the inspection manual; and providing classroom and field training. The manual will include bridge inspection principles and overview; movable bridge overview; mechanical, electrical, and structural inspection of movable bridges; operator house; and classroom and field training for electrical, mechanical, and structural.
04/24 – Present	H.009730.5 In-Depth Bridge Inspection of Complex Structures, Statewide, LA - LADOTD Inspector performing inspection of complex structures such as cantilever trusses, cable-stayed bridges, steel vertical lift bridges, and plate girder bascule bridges statewide under separate task orders. Inspection of two steel truss bridges (Jimmie Davis and Miller's Bluff) and US 90 bridges at Krotz Springs have been completed to date.
07/24 – 12/24	I-110 Bascule Bridge over Biloxi Back Bay Inspection, Biloxi, MS - Mississippi DOT Inspector providing routine and fracture critical structural inspection of all components of the bascule and anchor spans per the Movable Bridge Inspection Manual. Providing NBIS and element inspection for the entire bridge.
01/25 – Present	H.015963.5 IDIQ Contract for Movable Bridge Preservation Task US 165 Red River MB Ped Gates (Jackson St.), Rapids Parish, LA - LADOTD Designer assisting in developing plans and specifications to accommodate new pedestrian gates to this vertical lift bridge in accordance with LADOTD policies and standards. Providing new ADA accessible pedestrian gates and signage to pedestrian gate panel warning do not proceed. Also detailing Traffic Control plan sheets.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover	
	Name	J. Lee Adams, PE	Years of relevant experience with this employer	17
	Title	Water Resources Engineer	Years of relevant experience with other employer(s)	13
	Degree(s) / Years / Specialization		BS / 1995 / Civil Engineering	
Active registration number / state / expiration date			Professional Engineer: 41739 / LA / 09/30/2027	
Year registered	2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Senior Roadway Drainage & Hydraulics Engineer	
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).			
11/20 – Present	H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Hydraulics Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.			
01/22 – 12/22	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Hydraulics Engineer for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction. Lee is responsible for evaluating the scour susceptibility of the sites planned improvements.			

09/15 – Present	Route 42 Bridges over Blackwood Railroad Trail, Gloucester, Camden County, NJ - New Jersey DOT Deputy Project Manager/Stormwater Management Task Leader responsible for coordinating all disciplines in the preparation of Preliminary Engineering services. The project involved replacing a pair of three-span, fixed bridges conveying the northbound and southbound freeways over the former railroad ROW, with a single tunnel structure, in accordance with NJDOT and NJDEP requirements. Multistage construction and extensive utility relocation was involved. The project included acceleration and deceleration lane improvements and triggers State Storm Water Management Rules due to proposed impervious coverage. Design work was performed in accordance with the NJDEP regulations at NJAC 7:8. NJAC 7:13 compliance is also a factor as several storm outfalls discharge to the regulated floodplain. Prepared highway spread calculations and developed storm water management plan involving stormwater pipe hydraulic grade line. Calculations were performed using rational method in accordance NJDOT RDM Chapter 10. Prepared the design of storm water management detention and retention basin for water quality, quantity, and recharge. Utilized NRCS TR-55/TR-20 flood routing calculations and methodologies to size basin and outlet features. Recharge requirement was evaluated using the State's NJGRS Spreadsheet. Water quality was achieved by retaining the water quality storm event beneath the low-level outlet. Quantity reduction was achieved by detaining storms in excess of the WQ event. Developed Storm Water Management Plan per the Storm Water Management Regulations. Work required experience in NJDEP Flood Hazard Control Act and Storm Water Management Regulations.
01/22 – 12/22	Strong River Scour Analysis, Scott, MS – Mississippi DOT Sr. Hydraulics Engineer for hydrology and hydraulics to perform a qualitative and quantitative analysis of the channel and develop a Scour Analysis Report according to MDOT's Bridge Scour Evaluation Study Phase I & II guidelines. The two-phase approach began with preliminary findings and conclusions based on a survey of conditions and application of simple geomorphic concepts. This initial data collection phase supported the second phase, which was dedicated to engineering analysis and quantitative measurements of the structure and surrounding environment.
10/17 – 10/18	Rehabilitation of Route 202 Bridge over Housatonic River, Litchfield County, CT – Connecticut DOT Lead Hydraulics Engineer for the rehabilitation of the Connecticut DOT Route 202 over Housatonic River. The bridge is a single span simply supported Pratt through truss variant carrying two lanes of traffic. Constructed in 1953, this steel truss bridge is comprised of a combination rolled and built-up truss members framed into riveted gusset plates. The site is subject to flood flows that carry woody debris and inundate the span. Mr. Adams assessed the debris loading risk, modeled design flows, and estimated lateral hydraulic forces on the superstructure to assist the structural design team with bridge seat rehab design.
05/16 – 06/20	Bridge Street Bridge over Passaic River, Newark & Harrison, NJ – North Jersey Transportation Planning & Authority Hydraulics Team Leader responsible for evaluating stream stability and coastal site conditions for the existing bridge and replacement alternatives for the federally funded Local Concept Development (LCD) phase for major rehabilitation or replacement of this deteriorating swing span bridge. Mr. Adams also evaluated stormwater management system operation, capacity impacts, and environmental permitting implications for same.
11/21 – Present	Replacement of Structure No. W112.72B/Interchange 16W-Ramp over Berry Creek Canal, Bergen County, NJ – New Jersey Turnpike Authority Lead Hydraulics Engineer for the preliminary and final engineering design to replace the existing structure with a three-span continuous steel girder bridge supported on deep foundations and the rehabilitation of a culvert (Str. #W112.26). As lead hydraulic engineer, developed SMS SRH-2D global model to estimate and route the tidal prism and define the boundary conditions in accordance with HEC-25 methodologies. Developed finer detailed 2D model to determine proposed bridge scour parameters and estimate scour per HEC-18 for tidal bridges in cohesive materials.
12/12 – 12/13	Rumson – Seabright Bridge Over Shrewsbury River, Monmouth County, NJ – County of Monmouth Hydraulics Engineer responsible for evaluating scour vulnerability for the existing Rumson Road Bridge S-32 and several replacement alternatives during the Local Concept Development Phase. Prepared cost estimates for scour countermeasure alternatives and performed field condition inspection of bridges and culverts. Performed hydraulic vulnerability analysis per NJDOT guidance and developed hydraulic modeling per FHWA's HEC-25 guidance. During Preliminary Design, responsible for assessing stormwater management NJDEP regulatory requirements, evaluating existing system capacity, and designing stormwater system improvements for the Preliminary Engineering Phase of work. Prepared final design stormwater system improvements and prepared the final bridge hydraulics analysis, including modeling tidal hydraulic conditions during the stages of construction, and supported the engineering effort necessary for NJDEP Waterfront Development, USCG, and USACE permitting.

16. Staff Experience:

	Firm employed by		Hardesty & Hanover		
	Name		John Witthohn, PE	Years of relevant experience with this employer	9
	Title		Hydraulics Engineer	Years of relevant experience with other employer(s)	13
	Degree(s) / Years / Specialization		BS / 2003 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer: 41575 / LA / 09/30/2027		
Year registered		2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway Drainage & Hydraulics Engineer		
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).			
11/20 – Present		H.014530: Almonaster Ave Bridge Rehabilitation and New Connector Road, New Orleans, LA - Port of New Orleans/LADOTD Hydraulics Engineer for the rehabilitation of the Almonaster Avenue approach roadways and partial replacement of the associated Strauss-heel trunnion Bridge. The existing approach roadways were rehabilitated to meet current DOTD and AASHTO requirements, including geometric, drainage, and pavement improvements along the corridor. H&H also designed a new connector road to provide improved access to the bridge while eliminating conflicts with active rail traffic, enhancing both mobility and safety along the corridor. For the bridge assessment, complete rehabilitative engineering design, and road design services required for the partial replacement of the Almonaster Ave Bridge and a new connector road. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. H&H's 2019 assessment of the circa-1920, eligible for the National Register of Historic Places bridge revealed that improvements to the electrical and mechanical systems, superstructure, and the connecting roads were required to return this bridge to its full operating capability. The road design services included a new alignment for the connecting road including all drainage structures. H&H also developed a hydraulic study and a site plan that included several retention ponds for drainage improvements. Other services included environmental, geotechnical, and pavement design.			
01/22 – 12/22		H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, Louisiana - Jefferson Parish DPW/LADOTD Hydraulics Engineer for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction. John assisted with the evaluation of the scour susceptibility of the sites planned improvements.			
03/23 – Present		NJ Route 179 Bridge Replacement over Back Brook, Hunterdon County, NJ – New Jersey DOT Hydraulics Engineer for the Conceptual Design of the replacement of Route 179 Bridge over Back Brook. Responsible for hydrologic and hydraulic analysis of existing and proposed bridge hydraulics, and the design of a wider bridge opening to provide natural stream banks and terrestrial species			

	passage in compliance with NJDEP Flood Hazard Area rules on threatened and endangered species in fragmented habitat, in accordance with NJAC 7:13.
01/22 – 12/22	Strong River Scour Analysis, Scott, MS – Mississippi DOT Hydraulics Engineer responsible for hydrology and hydraulics to perform a qualitative and quantitative analysis of the channel and develop a Scour Analysis Report according to MDOT's Bridge Scour Evaluation Study Phase I & II guidelines. The two-phase approach began with preliminary findings and conclusions based on a survey of the conditions and the application of simple geomorphic concepts. This initial data collection phase supported the second phase, which was dedicated to engineering analysis and quantitative measurements of the structure and its surrounding environment. H&H performed a hydraulic analysis, evaluated the stability of the channel, and assessed scour depths for the dual-bridge crossing and recommended NBIS Item 113 coding.
12/19 – 01/22	East Haddam Swing Bridge over the Connecticut River Rehabilitation, Haddam, CT – Connecticut DOT Hydraulics Engineer responsible for the rehabilitation of this 4-span truss swing bridge. The bridge, which opened in 1913 and has been posted on the National Register of Historic Places, carries two lanes of Route 82 traffic over the Connecticut River and includes a deck truss span, through truss span, and a 465-foot-long through truss swing span. Rated elements included gusset plates, pins, tension and compression members, truss chord box members subject to bending, floorbeams, and stringers. The structural feasibility study evaluated the addition of an external sidewalk to allow pedestrian access across the bridge, which has a narrow 24.5-foot roadway. Responsibilities include design coordination and development for all architectural components of the project.
10/18 – 06/19	Grand Avenue Bridge over Quinnipiac River, City of New Haven, CT – Connecticut DOT Hydraulics Engineer responsible for performing independent technical reviews and QA/QC reviews of the hydrologic and hydraulic analyses, and the bridge scour analysis for the rehabilitation or replacement design of this bridge. The multi-span moveable bridge is in poor condition and certain piers considered scour susceptible during coastal floods. The bridge superstructure is vulnerable to wind and wave forces during coastal flood conditions, which affects the structural rehabilitation and retrofit of the bridge bearings. John's participation in the review of the hydraulic forces calculations as a result of tidal floods, wind, waves, and debris blockage forces, aided in developing predictions of mean sea-level rise for future resiliency during the project's design life.
05/17 – 12/20	Route 25A Bridge Over Brackett Brook, Grafton County, NH – New Hampshire DOT Hydraulics Engineer for the preliminary design of the replacement of Rt 25A Bridge over Brackett Brook. Responsible for hydrologic and hydraulic analysis of existing 45°skewed bridge and two proposed bridge spans alternatives in accordance with NHDOT Bridge Design Manual; the design of a wider bridge opening in compliance with NHDES Stream Crossing Guidelines for wildlife continuity and terrestrial species passage; and scour analysis and countermeasure design on the selected alternative. Also prepared the hydraulic sections of the Rehabilitation Study Report (RSR) and the Type Size & Location (TSL) Study Report, currently under review by NHDOT.
01/16 – 07/18	NJ Route 17, Sprout Brook Culvert Replacement, Paramus, NJ – New Jersey DOT Hydraulics Engineer responsible for Preliminary Engineering Phase and Final Design Phase of hydrologic and hydraulic analysis of existing and proposed drainage conditions of this bridge replacement and highway widening project, and the design of the proposed stormwater management system. The project involves replacing a pair of three-span, fixed bridges conveying the NB and SB freeways over the former railroad ROW, with a single tunnel structure, in accordance with NJDOT and NJDEP requirements.
05/17 – 12/20	Route 25A Bridge Over Brackett Brook, Grafton County, NH – New Hampshire DOT Hydraulics Engineer for the rehabilitation or replacement of this NHDOT Red Listed bridge. Responsible for supervising the hydrologic and hydraulic analysis necessary to define the floodplain, floodway, and existing conditions; determine design loads, scour depths; and provide quality control. The two-span concrete deck bridge was in poor condition and was considered scour critical during floods. Scope of work included an engineering feasibility study and report detailing type, span, and location (TS&L); preliminary and final design; permitting; and construction support services.

16. Staff Experience:

	Firm employed by Hardesty & Hanover			
	Name	George Summers, PE	Years of relevant experience with this employer	1
	Title	Hydraulics and Hydrology Engineer	Years of relevant experience with other employer(s)	8
	Degree(s) / Years / Specialization		MS / 2018 / Civil Engineering BS / 2017 / Environmental Engineering	
Active registration number / state / expiration date		Professional Engineer: 51244 / LA / 09/30/2026		
Year registered	2026	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Drainage & Hydraulics Engineer		
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).			
01/19 – 08/19	I-75 at Northside Drive Drainage Assessment, Atlanta, GA – Georgia DOT Design Engineer for this project which included the drainage assessment and stormwater report for a problem area along I-75 at the intersection with Northside Drive in Atlanta. The area was experiencing flooding due to a crushed pipe and an undersized storage vault. Services included a comprehensive stormwater model of the existing area, a stormwater report, and recommended solutions. George was the lead design engineer, created the comprehensive stormwater model and authored the stormwater report.			
08/23 – 10/23	SR 3 From CS 1957/Rhodes Street to CS 3790 MLK Jr Drive, Atlanta, GA – Georgia DOT Drainage Engineer for this project for a proposed sidewalk widening along Northside Drive in Atlanta. Potential effects of the widening on an adjacent church property were analyzed. The property had a retention pond bordering the existing sidewalk and the sidewalk widening had the potential to impact the retention pond. The existing retention pond was modeled and different strategies were developed to ensure that if the sidewalk widening occurred, it would not negatively impact the church property. George conducted the site visit, modeled the existing basin and pond, developed strategies to mitigate the impacts from the proposed project, and authored the stormwater report that provided our findings.			
04/23 – 11/2023	Anatolia Drive and Medline Driveway Extension, Richmond Hill, GA – Midline Industries Associate Project Manager for this project to provide access between Belfast Keller Road and the Medline facility in Richmond Hill, Georgia by constructing Medline Driveway and connecting to an extension of the proposed Anatolia Drive. George assisted with authoring the stormwater report and perform the stormwater calculations.			
01/19 – 04/19	Nafair Community Drainage Assessment, North Charleston, SC – City of North Charleston Design Engineer for this project including the drainage assessment and stormwater report for the Nafair Community in North Charleston. The community experiences flooding during regular storm events due to outdated drainage infrastructure. Services included a site visit, a stormwater report, and recommended solutions. George performed the site visit, authored the stormwater report, and assisted in recommending solutions to the client.			

07/20 – 04/21	Lambs Bridge Road at Little Canoochee Creek Bridge Replacement, Emanuel County, GA – Georgia DOT Design Engineer for this project which included overseeing the hydraulic analysis for the bridge replacement along Lambs Bridge at Little Canoochee Creek. George was the lead design engineer in charge of creating the HEC-RAS model of the creek and bridge. The HEC-RAS modeling included natural, existing, and proposed conditions. The bridge hydraulic study was done in accordance with the GDOT hydraulic criteria. George was also the chief author of the Hydraulic Study Report detailing the modeling and bridge design.
03/20 – 06/21	Martin Farm Road at Suwanee Creek Bridge Replacement, Gwinnett County, GA – Georgia DOT Design Engineer for this \$1.6M project which included overseeing the hydraulic analysis for the bridge replacement along Martin Farm Road over Suwanee Creek. George was the lead design engineer in charge of creating the HEC-RAS model of the creek and bridge. The bridge is in a FEMA Zone AE with floodway and hydraulic analysis included satisfying both GDOT and FEMA criteria. The HEC-RAS modeling included natural, existing, and proposed conditions for six different bridge designs. George was also the chief author of the Hydraulic Study Report detailing the modeling and bridge design.
03/20 – 06/21	Clotfelter Road at Barber Creek Bridge Replacement, Oconee County, GA – Georgia DOT Design Engineer for this \$1.5M project included overseeing the hydraulic analysis for the bridge replacement along Clotfelter Road over Barber Creek. George assisted in creating the HEC-RAS model of the creek and bridge. The HEC-RAS modeling included natural, existing, and proposed conditions. The bridge hydraulic study was done in accordance with the GDOT hydraulic criteria.
02/22 – 03/24	SR 225 Over Sumac Creek, Murray County, GA – Georgia DOT Associate Project Manager for this project to replace the existing SR 225 bridge in Murray County over Sumac Creek. A hydraulic model was created for the area, as well as a hydraulic report. George was the project manager, reviewed hydraulic models, and helped author the hydraulic report. George also performed the site visit and sat in on project status meetings.
07/23 – 02/24	SR 114 over Chattooga River Tributary, Chattooga County, GA – Georgia DOT Associate Project Manager for this project to replace the existing SR 114 triple 10' x 6.6' bottomless arch culvert at Chattooga River Tributary with a new triple 10' x 8' barrel box culvert on alignment. Existing culvert to be replaced due to deficiency. The scope included a hydraulic study and hydraulic report. As associate project manager, George coordinated project with the client, reviewed model created by design engineer, and authored and reviewed the hydraulic report. George also performed the site visit and managed the project resources. The construction cost is an estimated \$6,000,000.
02/22 – 08/23	CR 181 at Willacoochee River Overflow Erwin County, SC – Georgia DOT Hydraulic Engineer this \$2.7M project proposed to replace the existing CR 181 overflow bridge over the Willacoochee River Overflow in Irwin County. The proposed replacement bridge is a three span 105 ft long bridge (span arrangement 35-35-35) that is 29.75 ft wide gutter to gutter. The scope included a hydraulic study and hydraulic report. George assisted in authoring the hydraulic report and assisted in reviewing the hydraulic tables.
09/20 – 11/25	CR 583 (Sea Island Road) Over Dunbar Creek Glynn County, GA – Georgia DOT Key Hydraulic Engineer for this \$14M project to replace the bridge at the crossing of Sea Island Road and Dunbar Creek in St Simons, Georgia. The creek is a tidally dominant creek that regularly experiences flow in both directions. In order to properly model the crossing, a 2D hydraulic model was required. George created the 2D Hydraulic model in SMS for the crossing using survey bathymetry and LIDAR. George also created the storm surge hydrograph to properly model the combined tidal and storm surge boundary condition and authored the hydraulic report.

16. Staff Experience:

	Firm employed by Hardesty & Hanover			
	Name	Lauren Peytavin, EI	Years of relevant experience with this employer	1
	Title	Water Resources Designer	Years of relevant experience with other employer(s)	7
	Degree(s) / Years / Specialization		MS Certificate / 2021 / Coastal Engineering BS / 2018 / Civil Engineering	
Active registration number / state / expiration date			Engineer in Training 33772 / LA / 09/30/2026	
Year registered	2018	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway Drainage & Hydraulics Designer	
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).			
05/22 - 01/24	Almonaster Bridge Environmental Assessment, New Orleans, LA - Port of New Orleans Project Designer responsible for the assessment of the Almonaster Ave. Bridge Rehabilitation and New Connector Road project. The Almonaster Ave Bridge crosses over the Industrial Canal and provides two vehicular lanes and a single railroad track crossing down the center of the span. Lauren prepared Environmental Assessment/Environmental Impact documentation for the project that meets the criteria for LADOTD, LA DEQ, FHWA, NEPA and all federal and state compliance standards. Lauren was responsible for the analysis and estimation of project impact across a comprehensive panel of criteria, including recommendations of design alternatives as needed. She drew on her experience with roadway construction, wetland, and waterway permits to assist in permit acquisition for the Port of New Orleans for this project.			
06/25 – Present	H.004396 Lapalco Blvd over Harvey Canal & Roadway Approaches, Jefferson Parish, LA - Jefferson Parish DPW/LADOTD Water Resources Designer for the widening of Lapalco Boulevard from a four-lane facility to a six-lane facility carrying three lanes of traffic in each direction across the Harvey Canal, including pre-design inspection and design of the associated new three-lane double bascule movable bridge. The roadway widening extended along Lapalco Boulevard with corresponding improvements to the eastbound and westbound bridge and roadway approaches to provide continuous geometric, drainage, and pavement transitions through the corridor. In support of the corridor widening, H&H designed a new three-lane double bascule movable bridge constructed as an independent structure immediately adjacent and north of the existing bridge, along with a new operator house. The existing four-lane bridge was rehabilitated to carry three lanes of traffic and a new pedestrian/bike lane, completing the six-lane cross-section across the canal and adding multimodal accommodations to the corridor. Lapalco Blvd in the vicinity of the bridge is classified as an urban arterial roadway and serves as a significant transportation and evacuation route. The project is being designed to LADOTD Standards and Specifications for Roads and Bridges, the Louisiana DOTD Bridge Design Manuals and AASHTO, The Manual for Bridge Evaluations, and reviewed by LADOTD. Design services include development of Bridge Design Report; roadway design and lighting; utility coordination; load rating for the existing and new structures; structural design of foundation and approach spans; the structural, mechanical and electrical design of the bascule portion; as well as permitting. H&H assisted in project layout and plan coordination of the roadway to properly follow LADOTD Guidelines and to align the new bridge location and roadway locations. H&H also assisted in the sequencing of the roadway with the bridge for connecting traffic to new and existing bridges during construction.			
07/25 – Present	SR 33 Roadway Replacement, Franklin County, MS – Mississippi DOT Hydraulics Designer for the Phase A Final Right-of-Way Plans for roadway design and roadway hydraulic design for four bridge replacements along SR 33 (Bridge Nos. 31.9, 34.6, 34.9, and 35.3). The project scope includes roadway realignment, roadway hydraulic design, preliminary right-of-way design, and final right-of-way design. H&H is providing the realignment of the roadway to run parallel to the existing and redesigning of one intersection at the end of the project. H&H developed a hydraulic study and report to resize the existing pipes, if necessary, and to verify sizing for a reinforced box culvert. A set of preliminary right-of-way plans were created following MDOT guidelines and using the approved alignment from MDOT. Final right-of-way plans will be delivered after hydraulic design and roadway design have been finalized and a plan set has been created.			

06/20 - 01/24	RR082 Lakeshore Group E - Roadway Rehabilitation and Repair, New Orleans, LA - New Orleans Department of Public Works Assistant Project Engineer assisted in the design of the full reconstruction of two blocks of Ring St. in the Lakeshore Neighborhood. Design objectives included removal and replacement of the existing roadway surface, redesign of the roadway profile, and non-paving incidental repairs. Lauren was responsible for cost and materials estimates and preparation of final design plans utilizing AutoCAD Civil3D.
05/23 - 01/24	Clayton's Pond Drainage Analysis and Design, Norco, LA - St. Charles Parish Dept of Public Works Hydraulics Modeler responsible for review and hydraulic analyses of the hydraulic design models provided by St. Charles Parish in anticipation of survey completion. Lauren evaluated the input elements of the models per expectations of the project area, such as soil quality, storm runoff, design storms, and model scenario output of the existing drainage system in anticipation of updating these models to illustrate Gaea's design recommendations. Lauren coordinated project needs with the St. Charles Parish Department of Public Works, attended conceptual meetings, and facilitated clarification of survey scope on behalf of the subcontractor.
01/22 - 01/24	Orpheum Levee Slope Pave, New Orleans, LA - Southeast Louisiana Flood Protection Authority Project Designer provided engineering design, drainage analysis, quantifying materials, and cost estimate for approximately 3,000 linear ft. of levee slope pave on the west side of the 17th Street Canal. She designed the pave of the levee slope for the purpose of mitigating rutted slope due to large vehicular traffic along Orpheum Ave. and preserving structural integrity of the levee. Assessed the potential impacts of paving the protected side of the levee on adjacent drainage infrastructure by quantifying storm runoff and time of concentration. She provided full-scope design direction and input, including alternative methods to direct rainfall and runoff, and review of plans for submittal. She also navigated permit requirements for this project.
06/18 - 01/24	RR031 Dillard A Roadway Rehabilitation and Repair, New Orleans, LA New Orleans Department of Public Works Project Designer for the engineering and design of 186 blocks of roadway reconstruction, including full road rehabilitation and replacement, utility design, and incidental road repair. Lauren utilized existing survey data to establish new road profiles, performed drainage calculations with HYDRWIN hydraulic computer software developed by the LADOTD, designed upgrades and improvement to the stormwater drainage and incidental road repair, and designed new utilities, including water, sewage, and drainage. Project deliverables included typical sections, summary of quantities, plan and profile sheets, construction cost estimates, and cross-section profiles.
11/17 - 01/24	RR011 Broadmoor Group C, New Orleans, LA - City of New Orleans Project Designer for this FEMA-funded roadway enhancement and reconstruction project located in the Broadmoor Neighborhood of New Orleans. Lauren assisted in the design of two full block removals and replacements, including surface asphalt, upgrade of utilities including water and storm drainage, implementation of ADA-compliant ramps, and point repairs of the sidewalk and driveways. She utilized drainage calculations, performed with the use of the HYDRWIN for the drainage system design and upgrade. Tasks for this project include site visits, design meetings, design deliverables, and resolution of review comments.
05/18 - 11/21	Hagan-Lafitte Drainage Design and Green Infrastructure, New Orleans, LA - City of New Orleans Hydraulics Modeler for engineering design and PCSWMM modeling for this large FEMA-funded project to improve drainage and reduce flooding in the Hagan-Lafitte Neighborhood. With the use of the PCSWMM model, Lauren identified areas most vulnerable to flooding within the neighborhood to strategically design and place green and grey infrastructure facilities for the greatest possible flood reduction. She assisted with production of project drawings and flood maps, as well as project inspection while work was under construction.
11/17 - 07/18	Tennessee River Conditions at RM 260.25 (Wilson Lake) with Respect to Boat Collision with Barge, Lauderdale County, AL - U.S. Army Corps of Engineers Hydraulic Data Analyst performed a forensic analysis of Tennessee River conditions at River Mile 260.25 to determine the cross-sectional velocity distribution at RM 260.25. Lauren evaluated stage and discharge data provided by the Tennessee Valley Authority in conjunction with pool stage data provided by the Navigation Branch of Nashville U.S. Army Corps of Engineers (USACE) to determine velocity at the time and point of interest. She mapped bathymetric survey data provided by the Navigation Branch of the Nashville District USACE in both ArcGIS and AutoCAD software programs.

16. Staff Experience:

	Firm employed by Urban Systems Associates, Inc.		
	Name	Alison Michel, PE, PTOE, PTP, RSP _{2i}	Years of relevant experience with this employer 24
	Title	President Transportation Engineer	Years of relevant experience with other employer(s) 2
	Degree(s) / Years / Specialization		BS / 1997 / Civil Engineering
	Active registration number / state / expiration date		Professional Engineer: 30261 / LA / 03/31/2027 Professional Traffic Operations Engineer: 1023 / LA / 11/06/2026 Professional Planner: 626 / 11/20/2026 Road Safety Professional 2i: 148 / 03/20/2026 Traffic Engineering Analysis Process & Report Module 1, 2, & 3
Year registered	2002	Discipline	Traffic Engineering
Contract role(s) / brief description of responsibilities			Traffic Engineering Lead – Meets MPR 5
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/06-04/09	LA 385 and (Ryan) Street at Prien Lake Road Intersection Improvements Lake Charles, LA - LADOTD Ms. Michel was the project manager responsible for the preparation of roadway widening and signal design plans for this LADOTD project. First a CORSIM analysis of various intersection improvement strategies was conducted to determine the optimum lane configuration and signal operations. Once the preferred conceptual layout was identified, construction documents based on LADOTD standards were prepared to add turn lanes to both Ryan Street and Prien Lake Road within limited Right of Way. In addition to the traffic signal modifications, the design included modification to drainage, reconfiguration of driveways, improving corner radii, widening concrete pavement and an asphalt overlay. Preliminary and Final plans, specifications and a cost estimate using LADOTD pay items were prepared under Ms. Michel's direction. The project was constructed successfully.		
10/10-02/26	SP 700-17-0221 Pecue Lane / I-10 Interchange Environmental Assessment Baton Rouge, East Baton Rouge Parish, LA - LADOTD At the time of the design, this was to be Louisiana's first Diverging Diamond Interchange (DDI). Ms. Michel worked closely with DOTD and Baton Rouge City-Parish to develop signal phasing and timing for the DDI using Highway Capacity Software and VISSIM. The design of the signal at the intersection of Pecue Ln at Rieger Rd was also reviewed by Ms. Michel. Her familiarity with Highway Capacity Software, Transcad, CORSIM and VISSIM was critically important during the various phases of the project. Ms. Michel reviewed the construction cost estimates for each signal. The last phase of this project is construction administration which is underway.		
10/03-10/20	EBR Signals – Phases 4a, 4b, 5a and 5b Baton Rouge, LA - LADOTD & EBR Parish Ms. Michel began as a design engineer for a project that included design for full upgrades to twenty-four (24) traffic signals along Choctaw Dr, S. Choctaw Dr and S. Foster Ave in Baton Rouge, LA in 2003. The signals were owned and operated by both LADOTD and EBR City-Parish which required close coordination on the different standards and equipment requirements. The project was split into multiple phases over the years for reasons such as funding, Right-Of-Way acquisition, geometric changes and railroad permitting. The design included full signal upgrades, ADA ramps, fiber interconnect, railroad preemption including pre-signals and striping. Standards and pay items changed over time and the final design plans were completed in late 2020 with Ms. Michel as Principal in Charge.		

01/14 – 08/19	US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build Project, Lafayette Parish, LA - LADOTD Ms. Michel was a member of the key personnel for this design-build project as the Traffic Engineer. The project included converting US 90 to a controlled access facility by converting at-grade intersections to an interchange. The bridge structure had to span the intersection and a railroad. She supervised the design and analysis and performed QA-QC for temporary and permanent signal plans, permanent signage plans, temporary traffic control plans and the Transportation Management Plan. Signal plans were prepared using the DOTDs latest TSI format. Analysis included developing design hour volumes for the design year and modeling signals in Synchro. Phasing and timing were developed for both permanent and temporary signal operation.
02/20 – Present	LA 23: Belle Chasse Bridge & Tunnel, Belle Chasse, LA - LADOTD Senior Traffic Engineer. Ms. Michel is managing USI's tasks for Owner Verification services focused on reviewing design plans for traffic related submittals from the design-builder. These submittals included capacity analysis, plans for traffic signals, signage and striping. Ms. Michel conducted Quality Assurance/Quality Control reviews to confirm adherence with LADOTD standards and the Manual of Uniform Traffic Control. During the construction, Ms. Michel may provide support by reviewing Traffic Control Devices Plans for proposed lane closures, detours and advanced warning signage.
05/09 – 05/10	LA 1088/I-12 Interchange, St. Tammany Parish, LA - LADOTD Senior Traffic Engineer. Ms. Michel updated the permanent signage plans for the interchange on I-12 at LA 1088 in St. Tammany Parish, LA to reflect the new alignment. Traffic control device plans were designed based on the sequence of construction drawings and two phases of construction. Specifications for required S-items and a construction cost estimate were provided.
12/18 – 05/19	Manhattan Signal Controller Upgrades, Jefferson Parish, LA - LADOTD Senior Traffic Engineer. Traffic signal modification plans for eleven (11) intersections along the Manhattan Boulevard corridor in Jefferson Parish, Louisiana were prepared in accordance with Jefferson Parish and Manual on Uniform Traffic Control Devices (MUTCD) standards. The modifications included controller component upgrades, video detection and pedestrian accommodations at select intersections. During the project Ms. Michel offered her technical expertise from over seventeen (17) years of designing traffic signals and preparing technical specifications for Jefferson Parish.
10/11 – 05/16	Increase Capacity of I-10 from Bridge to I-10/I-12 Split Stage 0 Feasibility Study and Stage 1 Environmental Assessment, Baton Rouge, LA - LADOTD Principal in Charge of the Traffic Studies for this multi-faceted project to improve Interstate 10 through Baton Rouge. The project included developing and testing alternatives for operational and safety conditions. Analysis utilized VISSIM models that were prepared to meet LADOTD requirements. Mainline alternatives included an additional lane, interchange relocations, a highpass and slip ramps. The Capitol Regional Planning Commissions Travel Demand model in TransCAD was utilized to forecast volumes for various scenarios. Due to the length of the corridor, public meetings were held in three separate locations where Ms. Michel presented the results of the traffic analysis to the public. At the public meetings video animations of the models and analysis results from the VISSIM were presented. The final Stage 0 document was published for public comment to be included in the NEPA process in compliance with the FASTACT. USI also completed the traffic analysis and preparation of three Interchange Modification reports based on the Tiered process to meet Federal Highway Administration (FHNA) requirements. Ms. Michel managed and conducted the QA/QC of the traffic study preparation for the Environmental Assessment that was approved by FHNA.
08/08 – 08/09	John James Audubon Bridge Traffic Study, West Feliciana Parish, LA - LADOTD Project Manager for traffic study in West Feliciana Parish analyzing the impacts of relocating the new John James Audubon Bridge. The study entailed an assessment of alternative routes to connect the new bridge location with LA 10. The study included data acquisition, trip generation, traffic assignments and projections using TransCAD travel demand computer modeling, and traffic analysis using Highway Capacity Software (HCS) and TEAPAC Signals. Travel time estimates were also conducted as part of the traffic analysis for a comparison of existing and proposed alternative routes to LA 10.

16. Staff Experience:

	Firm employed by Urban Systems Associates, Inc.			
	Name	Nicole Stewart, PE, PTOE	Years of relevant experience with this employer	20
	Title	VP / Transportation Engineer	Years of relevant experience with other employer(s)	2
	Degree(s) / Years / Specialization		BS / 2004 / Civil Engineering	
	Active registration number / state / expiration date		Professional Engineer: 34750 / LA / 09/30/2027 Professional Traffic Operations Engineer: 2923 / LA / 08/14/2027 Traffic Engineering Analysis Process & Report Module 1, 2, & 3	
Year registered	2009	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Traffic Engineering/Design Analysis and TMPs – Meets MPR 5	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/16-03/20	I-10/Loyola Interchange Improvements - LADOTD Ms. Stewart’s role in this study was to prepare the conflict points, signage and striping layouts for the two different types interchanges being considered for the I-10 at Loyola Avenue Interchange. One interchange type included multiple fly over ramps and the other was a diverging diamond. Once prepared, Ms. Stewart compared and ranked the conflict points, signage and striping of both alternatives to be used for the safety portion of the Tiered process.			
05/09-07/12	Lakefront/Holy Cross Traffic Signal / ITS Signal System New Orleans, LA - LADOTD & City of New Orleans A system engineering analyses was prepared by Ms. Stewart to determine the requirements for a self-healing fiber network between the traffic signals and video system detectors in the Lakefront and Holy Cross New Orleans neighborhoods. This project included forty-six (46) signalized intersections in two systems, Lakeview/Gentilly and the 9 th Ward. Ms. Stewart prepared plans to provide connectivity to the City of New Orleans Department of Public Works (DPW) and the new Regional Traffic Management Center (RTMC). The communications system design included tie-ins to the city’s Ethernet network allowing full operation of the system from City Hall. The plans and specs were designed for LADOTD who selected the contractor for the project. Ms. Stewart was also the engineer responsible for construction administration during the project. This included coordinating with the LADOTD District Construction Engineer and submitting the required reports in LADOTD format.			
9/10 – 8/11 & 3/12 – 11/13	MacArthur Interchange Signal Modification/ Signage & Striping / Traffic Control Devices Plans Harvey, LA - LADOTD Senior Traffic Engineer. The traffic study to evaluate the existing and projected operating conditions of the lower Westbank Expressway was prepared by Ms. Stewart. In the Design Phase, Ms. Stewart designed the new traffic signals for the interchange and neighboring intersections. She prepared the striping and signage plans to accommodate the ramp changes and prepared Traffic Control Devices Plans for the various stages of construction.			
05/18-04/19	TMP for I-10: West of 108 to I-210 Interchange: Rubblize and Overlay Lake Charles, LA - LADOTD Senior Traffic Engineer. As the lead engineer for this Traffic Management Plan, Ms. Stewart was responsible for the preparation of the safety analysis. She conducted the analysis per the guidelines set forth by LADOTD in <i>Guidelines for Crash Data Analysis</i> for this TMP in Lake Charles, LA. She conducted queue analysis to identify when lane closures would be permitted, identified the construction impact area and reviewed crash data for more than 350 collisions. Ms. Stewart identified trends and calculated crash rates and determined that the section of I-10 that was going to be rubblized had a crash rate that was higher than the statewide average and required mitigation.			

01/14-08/19	US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build Project Lafayette, LA - LADOTD & Design Builder Senior Traffic Engineer. Ms. Stewart prepared the Traffic Control Device Plans for all phases of construction. Ms. Stewart was responsible for the design of the permanent signage for the new portion of I-49 within the project limits. Traffic Control Devices and Signage plans were prepared to be in accordance with the Manual of Uniform Traffic Control Devices and the most current LADOTD standards. Throughout construction, Ms. Stewart was available to meet with contractor and visit the construction site on an as needed basis. Ms. Stewart provided timely responses to RFI's and prepared plan changes to address concerns raised in the field. She also prepared As-Built plans once the project was complete in August 2019.
02/15-06/16	Bridge Preventative Maintenance District 61 Port Allen, LA - LADOTD Ms. Stewart was the principal in charge for Traffic Management Plans (TMP) for bridge replacement and repairs for various locations in Louisiana. This included developing various levels of TMP's based on LADOTD EDSM guidelines. Tasks included conducting capacity analysis, safety analysis, detour analysis and developing proposed mitigations where applicable. For the reconstruction of the LA 1 bridge over the Intracoastal Waterway, a detailed Level 3 TMP was prepared. For this TMP, detailed work zone impact management strategies were developed to help minimize the project's impact on mobility.
03/10 - 01/14	Houma-Thibodaux to I-10 Connection North-South Corridor Environmental Impact Statement, Houma LA - LADOTD Traffic Engineer. Evaluated new alignments to connect US 90 to LA 3127 to establish a new north-south corridor to link the existing interstate system to the future I-49 South and provide an alternate route during hurricane evacuations. Ms. Stewart conducted an analysis to evaluate traffic operations for the various alternatives and to recommend lane configurations for the terminal intersections. At the completion of the study Ms. Stewart performed the QA/QC for the Level 2 Transportation Management Plan that was prepared for the final corridor alignment.
04/10 – 09/11	I-10 Crossing - Irish Bayou Bridge, New Orleans, LA - LADOTD Senior Traffic Engineer. Ms. Stewart was the project manager for this project which involved designing traffic control devices plans for the I-10 Highway Crossing Levee Enlargement project at Irish Bayou Road in New Orleans East. The plans included multiple and phased road closures of a six (6) lane section of Interstate 10 including nighttime closures. In addition to managing the project, she was responsible for QA-QC.
02/18 – 03/20	Severn Ave: Veterans to W. Esplanade, Jefferson Parish, LA – Jefferson Parish Traffic Engineering Project Manager of this Jefferson Parish roadway reconstruction project. Severn Ave is a heavily travelled multi-lane boulevard requiring complex construction sequencing. Design plans were developed for temporary signals during construction and the permanent signal configurations with pedestrian accommodation. Signal plans were developed using the latest LADOTD TSI format. Ms. Stewart also managed the temporary traffic control plan development for multiple phases of construction, and she performed QA-QC. Another element of this project was coordination with Jefferson Parish and LADOTD to obtain approval of the Parish's equipment and specifications for use in the LADOTD bidding process.
12/16 – 04/21	France Road - North Widening, New Orleans, LA - LADOTD Senior Traffic Engineer. Over time, France Rd between Gentilly Blvd and Hayne Blvd had deteriorated pavement and was in need of widening and drainage repairs. Adjacent to the west side of the roadway was a concrete floodwall that limited Right Of Way and the ability to maintain two-way traffic throughout construction. Ms. Stewart developed site specific traffic control plans implementing a one-way system and detouring traffic that would normally traverse in the opposite direction of the allowed movement. The plans were designed in accordance with the latest version of the MUTCD and the City of New Orleans traffic control standards.
03/10 – 07/10	USACE Traffic Control Devices Plans, Statewide, LA – U.S. Army Corps of Engineers Senior Traffic Engineer. Ms. Stewart has designed numerous Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, drums, roadway markings, etc.) to facilitate traffic safely and efficiently through the traffic control zone. Haul routes were designated when necessary. Many of the plans were for Corps of Engineers' projects.

16. Staff Experience:

	Firm employed by Urban Systems Inc.		
	Name	Christine Darrah, PE	Years of relevant experience with this employer 10
	Title	Transportation Engineer	Years of relevant experience with other employer(s) 20
	Degree(s) / Years / Specialization		BS / 1994 / Civil Engineering
	Active registration number / state / expiration date		Professional Engineer: 28528 / LA / 09/30/2025 Traffic Engineering Analysis Process & Report Module 1, 2, & 3
Year registered		Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Traffic Engineer/Design 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).		
11/10-09/15	Pecue Lane / I-10 Interchange Environmental Assessment Baton Rouge, LA – LADOTD Project Engineer & QA/QC. Ms. Darrah assisted with design and QA/QC for the Pecue Lane / I-10 Interchange traffic signals for the diverging diamond and the signal at the intersection of Pecue Lane at Reiger Road. The signal plans were prepared on the latest LADOTD TSI format. The interstate ramp terminal intersection signals were designed per LADOTD standards and the Reiger Road signal was designed per East Baton Rouge Parish standards. This required close attention to detail given the different equipment requirements and coordination to obtain pay item numbers for East Baton Rouge signal specifications. She reviewed the opinion of probable cost.		
09/14-12/14	SELA 26 Widening of Florida Ave. Canal Phase II and III New Orleans, LA – LADOTD Traffic Engineer. Ms. Darrah designed Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standards. The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, drums, roadway markings, etc.) to facilitate traffic safely and efficiently through the traffic control zone. Haul routes were designated when necessary.		
09/15-10/18	Picardy-Perkins Traffic Signal East Baton Rouge, LA – LADOTD, EBR Design Engineer. Ms. Darrah was the design engineer for two (2) traffic signals for the Picardy-Perkins Connector Project. In this role she worked closely with the prime consultant, LADOTD, and East Baton Rouge Parish to design the traffic signal operation and identify locations for signal equipment for the permanent signal plans. Signal requirements included video detection, pedestrian accommodations, and advanced warning due to limited sight distance at the railroad underpass. The 98% plans are currently under review by Baton Rouge City-Parish and LADOTD.		
06/21-10/21	MSY Entrance Road Capacity, North Terminal Louis Armstrong New Orleans International Airport Jefferson Parish, LA – LADOTD, MSY, A'tl of Kenner, Jefferson Parish Traffic Engineer. Ms. Darrah prepared temporary and permanent striping and signage plans for the widening of the Southbound Airport Access Roadway, realignment of TNC Road, and widening of Northbound Airport Access Rd. As part of this project, she performed a comprehensive review of the adjacent Airport Access Rd Improvements included in the I-10/Loyola Interchange Improvement project. The proposed improvements required temporary closure of one lane of the airport roundabout, roundabout slip lane and right lane of Northbound Airport Access Rd.		
09/14-08/16	LA 415 Stage 0 Corridor Study West Baton Rouge Parish, LA – LADOTD Team Leader. Ms. Darrah was the team leader for the Stage 0 Corridor study to develop an alternative plan to improve mobility and safety on LA 415 in Port Allen, LA for normal conditions as well as increase the capacity for throughput during an I-10 mainline detour. The study included traffic volume collection, growth rate development, alternative development, modeling, safety analysis, Tier 1 analysis, and report preparation. VISSIM was used to model the corridor. Modeling the alternatives required base model creation, calibration, development of projected model for each alternative. She also managed the sub-consultant who prepared the geometric layouts.		

05/21- Present	Complete Streets Group C- Bicycle Boulevard Orleans Parish, LA – LADOTD Project Engineer. The striping, signage, and wayfinding plan preparation for new Bicycle Boulevards on 15 corridors in Uptown and Downtown areas of New Orleans were prepared by Ms. Darrah. She oversaw data collection for 48-hour vehicular counts, pedestrian and cyclist counts, and radar speed studies. Ms. Darrah worked closely with the project team and City of New Orleans DPW to evaluate data collected and develop potential improvements to prioritize cyclist on the existing road network. Her final striping and signage designs provide clear, concise direction for cyclist, pedestrian, and motorist.
11/20 – 02/23	US 190 at Northshore and Camp Villere Roundabouts, Slidell, LA – LADOTD Project Engineer oversaw the design of permanent striping & signage plans per LADOTD standards and specifications. She also designed temporary traffic signals that would be required during the multiple phases of roundabout construction. A Level 2 Traffic Management Plan (TMP) was also prepared. Ms. Darrah coordinated with the prime-consultant, St Tammany Parish, and LADOTD as needed.
03/21 – 04/21	I-610 Transmission Line Crossing at Frenchman, New Orleans, LA – LADOTD/City of New Orleans Project Engineer for the interstate closure project to assure public safety during overhead transmission lines repairs, this included a full closure of both directions of I-610 and westbound on ramp Elysian Fields Ave, in New Orleans. Ms. Darrah coordinated the six-hour interstate closure and associated detours with LADOTD and City of New Orleans, LA . She designed Traffic Control Devices Plans applying MUTCD, LADOTD and City of New Orleans standards for proper placement of traffic control devices including portable changeable message boards. Ms. Darrah utilized AutoCAD to assist in final preparation of plans.
03/17 – 03/18	Milan St Terminal, New Orleans, LA – Port of New Orleans Lead Engineer designed Construction Sequencing and Permanent Striping Layouts and Signage plans. Construction sequencing included keeping port tenants fully operational through each phase of construction. All plans were prepared in accordance with LADOTD and MUTCD guidelines.
06/22 – 10/22	KCS Acadian Thruway, East Baton Rouge Parish, LA - LADOTD Traffic Engineer. This project included lane closures and full closure of Acadian Thruway at the KCS bridge near the I-10 interchange in East Baton Rouge Parish. Ms. Darrah prepared the Traffic Control Devices Plans applying MUTCD and LADOTD standards for proper placement of traffic control devices. Additional project efforts included designing lane closures on an I-10 on-ramp for laydown access and police-controlled haul routes.
03/13 – Present	FEMA Recovery Roads Program, New Orleans, LA – City of New Orleans/DPW Traffic Engineer assisted with the design plans for the initial phase of roadway restoration for the Seventh Ward, Bayou St John and Fairgrounds neighborhoods that were damaged by events related to Hurricane Katrina. Plans were prepared for partial and full concrete and asphalt pavement replacement and asphalt mill and overlay. Incidental paving included sidewalk and driveway replacement and ADA ramp installation at all intersections. She assisted with estimating for quantities and construction costs. For the second phase of design services, the plans were for the full re-construction of several streets including waterline replacement Construction Administration services included overseeing inspectors and construction operations, invoice reviews, preparation of field changes, plan changes for scope modifications, and close out documents. The current task is construction administration and Ms. Darrah is managing the inspector and coordinating with the contractor to confirm the construction and reporting meets the City of New Orleans DPW standards.

16. Staff Experience:

	employed by Urban Systems Inc.			
	Name	Matthew Morgan, PE, PTOE	Years of relevant experience with this employer	11
	Title	Transportation Engineer	Years of relevant experience with other employer(s)	0
	Degree(s) / Years / Specialization		BS / 2009 / Civil Engineering	
	Active registration number / state / expiration date		Professional Engineer: 47060 / LA / 03/31/2027 Professional Traffic Operations Engineer: 5893 / LA / 03/19/2028 Traffic Engineering Analysis Process & Report Module 1, 2, & 3	
Year registered	2022	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Transportation Engineer	
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).			
01/18-01/19	LA 46- St. Claude Bridge Bicycle Accommodation – Port of New Orleans & LADOTD Transportation Engineer. Mr. Morgan developed short term and long-term alternatives for safely accommodating bicyclists across the raised portion of LA 46 at the St. Claude Bridge and over the Inner Harbor Navigational Canal lift span. To accomplish this task, he conducted field observations which included sight distance evaluations, identifying existing equipment to be modified/removed, collecting classification data for pedestrians, vehicles, and bicycles using the roadway/lift span, and collecting vehicular speed data. Mr. Morgan assisted with the cost estimate, and the formation of a technical memorandum to implement these alternatives for the Port of New Orleans.			
03/21-01/22	North Blvd Baton Rouge, LA – MoveBr & LADOTD Transportation Engineer. Mr. Morgan was the project manager for a traffic study for enhancing North Blvd from I-110 to Foster St for pedestrians and bicycles. He led the data collection effort which included 7-day classification counts, 48-hour classification counts, turning movement counts, spot speed studies, and driveway spot counts. He also led the effort collecting safety information from LADOTD crash websites for local and state roads. Mr. Morgan conducted safety analysis to identify the Level of Service of Safety (LOSS) and overrepresented crashes.			
10/17-12/17	Calcasieu Pass TIA Cameron Parish, LA – Developer & LADOTD Transportation Engineer. Mr. Morgan led the data collection team for the Calcasieu Pass TIA. This data collection included vehicle volume and classification counts in the surrounding study area. He assisted with preparing figures representing the data, intersection analysis, deliverables, and also tracking quality control.			
12/20-02/22	As Needed Traffic Engineering Services, Bossier, LA – City of Bossier Transportation Engineer. Mr. Morgan was the Project Engineer for this effort to improve mainline progression during peak hours for three principal arterials (LA 3105, LA 3, and US 71) in the City of Bossier, Louisiana. He led the data collection effort which included volume counts, peak period turning movement counts and speed studies. Using Tru-Traffic signal coordination software, Mr. Morgan created models of the existing conditions to be used as baseline and created projected conditions analysis to measure the potential impact of the changes. He collaborated with the City Traffic Engineer who implemented the proposed timing plans. The City Traffic Engineer confirmed observing reduction in travel times and queue lengths.			
11/20-07/21	Manhattan Signals, Jefferson Parish, LA – Jefferson Parish Transportation Engineer. Mr. Morgan’s participation in the project included temporary and permanent signal design for changes to accommodate an additional northbound travel lane on Manhattan Blvd at the intersections of the Target Driveway and Gretna Blvd. Mr. Morgan helped with the relocation of existing traffic equipment and the addition of new equipment where needed. He helped with the development of plan sheets that would include signal timing and phasing changes as well as present the relocation of old signal equipment.			

04/18-07/18	Marconi Dr Traffic Study, Orleans Parish, LA – Orleans Parish Transportation Engineer. Mr. Morgan was a team member for a traffic study focused on increasing safety for pedestrians, cyclists, and drivers on Marconi Dr. His role was to evaluate the existing conditions on Marconi Drive including vehicular, bicycle and pedestrian traffic and to identify potential improvements. Mr. Morgan led the acquisition and documentation of traffic data for the study area. He also led the analysis of the study intersections creation of graphic representation of existing and alternative scenarios. Mr. Morgan met schedule deadlines and assisted with the generation of the report and appendix.
03/16 – 08/18	Future I-49 South Study (Raceland to Westbank Expressway), Stage 1, Jefferson, Lafourche, & St. Charles Parish, LA – LADOTD Transportation Engineer. The study area spanned US 90 from Raceland to Westbank Expressway in Jefferson, Lafourche, and St. Charles Parishes . Mr. Morgan led the data collection effort which included traffic volume collection, speed studies, and vehicle classification. He performed site investigations and assisted project engineers with the development of figures and tables to present the data. He utilized LADOTD's resources and tools during the study phase for analysis of existing conditions.
03/22 – 09/22	Hundred Oaks Broussard Bridges TCDP, East Baton Rouge Parish, LA Transportation Engineer. The objective of the Traffic Control Devices Plan (TCDP) in East Baton Rouge Parish, LA was to provide adequate advanced notice and signage to drivers for the closure of two local roadway bridges. Mr. Morgan led the design of the TCDP for each bridge closure which incorporated local municipalities' standards, as well as the Manual on Uniform Traffic Control Devices (MUTCD) standards. Mr. Morgan used aerial photography and the Google Earth mapping program to designate placement of detour and advanced warning signage. He oversaw the creation of the plans in AutoCAD, a CAD-type software oriented to drawing and modeling. He used QA/QC to verify the plans before delivering electronic versions of preliminary plans to the client using Adobe PDF format.
10/22 – 11/24	Inner Harbor Navigation Canal (IHNC) Lock Replacement Traffic Study, Orleans Parish, LA – U S Army of Corps Engineers Transportation Engineer. Mr. Morgan developed and coordinated a traffic study to analyze existing and projected vehicular operational and safety conditions for the Inner Harbor Navigational Canal (IHNC) lock replacement near the St. Claude, Claiborne, and Florida Bridges. To accomplish this, he conducted field observations and assisted in the collection of vehicular volume, class and speed data. Mr. Morgan reviewed the vehicular data along with historical bridge logs, which included when bridges opened to allow marine vessels to pass and halted vehicular traffic, to identify peak periods for analysis. He reviewed the Regional Planning Commission's Macroscopic Transportation model data and summarized the anticipated growth in the study area. Mr. Morgan reviewed crash/safety history to summarize crash characteristics of the study area, the Level of Service of Safety (LOSS) for major study area intersections, existing safety concerns, and crash locations. He analyzed existing and future with project traffic conditions using the VISSIM microscopic traffic simulation software and summarized methods of effectiveness. Mr. Morgan led the effort in summarizing all the data collection, safety findings, and analysis results in a technical report. He participated in weekly online/in-person meetings with stakeholders to communicate and coordinate project milestones.

16. Staff Experience:

Firm employed by SJB Group, LLC			
Name	Ralph D. Burgess, PLS	Years of relevant experience with this employer	<1
Title	Surveyor/Survey Department Manager	Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization		B.S. / 2004 / Industrial Technology Design	
Active registration number / state / expiration date		Professional Land Surveyor: 0005040 / LA / 9/30/2026	
Year registered	2010	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Surveyor – Meets MPR 4	
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).		
9/25 – 01/26	LADOTD Project No. H.000112 US 190: UPRR Overpass, Opelousas, LA – LADOTD Surveyor of Record/Project Manager. Managed topographic surveys for the I-49 and UPRR Railroad Bridge in Opelousas, as well as the US 190 and Bayou Teche Bridge replacements. Oversaw crew coordination, topography work, review and integration of Mobile LiDAR data. Traditional Field work and coordination of SUE.		
9/25 – 10/25	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.047, Vermilion Parish, LA – OLHC Survey Manager/Responsible Charge. Oversaw a complete topographic and property survey for a single bridge, ensuring compliance with project standards. Responsibilities included coordinating field crews, processing survey control and topography data, and calculating property boundaries and right-of-way limits. The manager prepared survey control, topographic survey , and property survey packets for submittal and review by the supervising professional, maintaining accuracy and quality throughout the project.		
08/24 - Present	LADOTD Project No. H.003931 – I-10 Calcasieu River Bridge P3 Project, Calcasieu Parish, LA – LADOTD Department Manager. SJB Group provided an additional topographic survey and right-of-way mapping for this project, which is the largest in LADOTD history. This project covers a 5.5 mile stretch of Interstate 10 and includes 15 bridges and 19 ramps. The topographic survey component of the project include recovery and verification of existing control, preparation of the primary and secondary control sketch, supplemental topographic survey and dtm preparation.		
09/23 – 12/23	LADOTD Project No. H.015619.5 LA 106, Evangeline Parish, LA – LADOTD Survey Manager/Responsible Charge. This project involved an 8-mile pavement preservation for District 03. It primarily had limited topography with some areas requiring full topography according to LaDOTD standards. Mr. Burgess worked with the district to finalize survey scoping, managed and directed the topographic survey , and coordinated with local utility companies for asset locations in areas needing full topography. Upon project completion, Mr. Burgess conducted a comprehensive quality control and assurance review of the topography submittal. The topographic data was gathered using traditional methods.		

03/22 – 09/22	LADOTD Project No. H.010960.5-2 Roundabouts at LA 182, Lafayette, LA – LADOTD Surveyor of Record/Project Manager. Mr. Burgess completed a topographic survey along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
09/21 – 03/22	LADOTD Project No. H.014747 Southern University Ravine Protection, East Baton Rouge Parish, LA – LADOTD Surveyor of Record/Project Manager. Working as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University The topographic data for this project was collected both traditionally and utilizing 3D Scanning. Mr. Burgess worked with SUE sub-consultant and, crews to obtain and incorporate all utility data as well.
08/21 – 04/24	LADOTD Project No. H.011833.5 St. Mary Street Sidewalks; Scott, LA – LADOTD Surveyor of Record/Project Manager. Mr. Burgess completed a topographic survey along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
07/20 – 04/21	LADOTD Project No. H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish, LA – LADOTD Survey or Record/Project Manager. Working as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. This included merging of data from a previous survey on one portion of the site and field verifications of that data. The topographic data for this project was collected traditionally.
02/21 – 07/22	LADOTD Project No. H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek – LADOTD Surveyor of Record/Project Manager. Managed and directed the topographic survey while coordinating with local utility companies for asset location. Conducted thorough quality control and quality assurance reviews of all topography submissions and drainage maps. The topographic data for this project was collected using both traditional means and methods. Additionally, this project included property surveys and right-of-way mapping in accordance with LADOTD standards.
01/18-01/20	LADOTD Project No. H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA – LADOTD Surveyor of Record/Project Manager. Working as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.

16. Staff Experience:

Firm employed by SJB Group, LLC			
Name	Charles "Tim" Brewer, PLS, PS, RPLS, LS, PS, RF	Years of relevant experience with this employer	4
Title	Principal-in-Charge	Years of relevant experience with other employer(s)	28
Degree(s) / Years / Specialization		B.S. / 1988 / Forestry Management	
Active registration number / state / expiration date		Professional Land Surveyor: 0005009 / Louisiana / 9/30/2027 Registered Professional Land Surveyor: 6142 / Texas / 12/31/2027 RF: 1286 / Mississippi / 12/31/2027	
Year registered	2009, 2015, 1988	Discipline	Professional Land Surveyor, Reg. Professional Land Surveyor, Registered Forester
Contract role(s) / brief description of responsibilities		Surveyor – Meets MPR 4	
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).		
08/24 - Present	LADOTD Project No. H.003931 – I-10 Calcasieu River Bridge P3 Project, Calcasieu Parish, LA – LADOTD Surveyor of Record/Project Manager. SJB Group provided an additional Topographic Survey and Right-of-Way Mapping for this project, which is the largest in LADOTD history. This project covers a 5.5 mile stretch of Interstate 10 and includes 15 bridges and 19 ramps. The topographic survey component of the project include recovery and verification of existing control, preparation of the primary and secondary control sketch, supplemental topographic survey and dtm preparation.		
11/23 – 04/25	LADOTD Project No. H.15487.5 – New Orleans Pedestrian Improvements – LADOTD Surveyor of Record/Project Manager. SJB Group conducted Mobile LiDAR scanning for the project which included a topographic survey and right-of-way mapping of fifty-five intersections in the downtown area of New Orleans, Louisiana. Additionally, the project included the determination of the existing right-of-way for the specific streets and LADOTD roadways		
12/21 – Present	LADOTD Project No. H.004100 I-10 Widening from LA 415 to Essen, East Baton Rouge Parish, LA – LADOTD Surveyor of Record/Project Manager. SJB Group conducted property and partial topographic surveys as well as Right-of-Way Mapping, a long a 4.4-mile stretch of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish for the LADOTD widening project. Field surveying and mapping covered more than 100 parcels, and included drainage and access servitudes, and railroad rights-of-way. Deliverables included property maps, base and final Right-of-Way Maps, MicroStation design files, and a parcel input file for acquisition parcels.		
10/23 – 12/24	LADOTD Project No. H.005121.5 LA1 – LA415 Connector, East Baton Rouge Parish, LA – LADOTD Project Manager. The project was a topographic survey by conventional survey methods and mobile LiDAR Scanning for the design of a roadway to connect LA 415 to LA 1. The project is a supplement to previously performed surveying for the realignment of the project due to recent development and construction. The project limits include areas of roadway into forested lands, agricultural fields, residential, commercial, industrial, and retail areas.		
08/22 – 04/24	LADOTD Contract No. 44-17597 - Rural Bridge Replacement Initiative, Districts 03, 07, 61, 62 – LADOTD Surveyor of Record/Project Manager. Sub to Burk-Kleinpeter. This project included a topographic survey , right-of-way mapping, and roadway design performed for the proposed bridge replacements for LADOTD Districts 03, 07, 61, and 62. Each site required a complete property map and the preparation of right-of-way maps with supporting data for right-of-way acquisition.		

01/23 – 07/23	LADOTD Contract No. 44-22830 – ADA Transition Plan Update Phae 1 – District 3 Pilot Study – LADOTD Surveyor of Record/Project Manager. SJB Group gathered LiDAR data and associated imagery along 30 linear miles of sidewalks along LADOTD roadways to allow for the measurement of cross-slope and running-slope of sidewalks.
03/22 – 08/23	LADOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements – LADOTD Surveyor of Record/Project Manager. This project included a topographic survey in Calcasieu Parish near the intersection of I-210 and LA 385 near the campus of McNeese State University. The data was collected with Mobile LiDAR with specific areas of surveying with conventional equipment. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location & Survey Section requirements.
04/23– 09/23	LADOTD Project No. H.017322.5 – Morgan City Sidewalks & Shared Use Path, St. Mary Parish – LADOTD Surveyor of Record/Project Manager. This project included right-of-way mapping, topographic survey , and subsurface utility engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other accessibility structures in Morgan City.
09/22 – 06/25	MDOT Project No. SJB-PS 2022 IDIQ Contract Statewide – Mississippi DOT Surveyor of Record/Contract Manager. The projects include topographic surveys , boundary surveys to produce the property surveys, hydraulic survey pdf files of the roadway centerlines, creek centerlines, floodplain profiles, and right-of-way determination. The projects are performed according to the Mississippi Department of Transportation Survey Manual. SJB Group has completed three work assignments under the contract.
08/22– 12/24	LADOTD Project No. H.013716.5 – US 167: Mt. Vernon Street to Churchill Drive – LADOTD Surveyor of Record/Project Manager. This project included a property survey and topographic survey along US 167 in Lafayette, LA for sidewalk improvements. The project consisted of right-of-way determination of US 167 and 3 street intersections. The project was performed according to the Location and Survey Manual and Addendum A and delivered in the Autodesk format.
9/25 – 01/26	LADOTD Project No. H.000112 US 190: UPRR Overpass, Opelousas, LA – LADOTD Surveyor of Record/Project Manager. Managed topographic surveys for the I-49 and UPRR Railroad Bridge in Opelousas, as well as the US 190 and Bayou Teche Bridge replacements. Oversaw crew coordination, topography work , review and integration of Mobile LiDAR data. Traditional Field work and coordination of SUE.
03/22 – 08/22	LADOTD Project No. H.009300.5 Hooper Road Widening, Baton Rouge, LA – LADOTD Surveyor of Record/Project Manager. SIB Group has performed several iterations of a topographic survey for LADOTD for the Hooper Road widening project. This submittal included the segment of Hooper Road from Sullivan Road (LA 3034) to Greenwell Springs Road (LA 37). A complete, detailed topographic survey and the verification of the control network and verification of utility data provided by utility operators.
8/20 – 3/22	LADOTD Contract No. 4400017597 – Rural Bridge Replacement Initiative – LADOTD Project Manager. This project included a topographic survey , right-of-way mapping, and roadway design performed for the proposed 33 bridge replacements for LADOTD Districts 03, 07, 61, and 62. Each site required a complete property map and the preparation of right-of-way maps with supporting data for right-of-way acquisition. The topographic survey of the project limits of each bridge included a complete inventory for each drainage structure (type, size, length, and invert) and cross sections of all drainage ways.

16. Staff Experience:

Firm employed by SJB Group, LLC			
Name	Karen Kennedy, PE	Years of relevant experience with this employer	4
Title	VP of Engineering	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		B.S. / 1995 / Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: 28547 / LA / 09/30/2027	
Year registered	1999	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Subsurface Utility Engineering	
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).		
8/24–Ongoing	LADOTD Project No. H.003931 Calcasieu River Bridge Public – LADOTD Utility Coordinator. SJB Group, LLC is providing Utility Coordination for the I-10 Calcasieu River Bridge project—LADOTD’s largest to date. Coordination supports utility relocations in a dense industrial corridor, ensuring timely construction and budget compliance throughout project duration.		
11/20 - 6/24	State Project No. H.013029 Control Section No. 454-01 I-12 @ Sherwood Forest Ped/Bike Safety – LADOTD Engineer of Record. This project consisted of a topographic survey, utility investigation and engineering design for multiuse paths on both sides of S. Sherwood Forest Boulevard extending from S. Harrell’s Ferry Road northward to Old Hammond Hwy. The project aimed to not only improve pedestrian and bicycle mobility by connecting to the existing bike lanes north of Old Hammond Hwy but also had a goal of improving pedestrian safety especially at interstate interchanges. Working with MOVEBR and LA DOTD, SJB along with Gresham Smith developed appropriate pedestrian crossings to minimize impact on vehicular traffic, while also greatly enhancing overall safety. The project is the first of its kind for this type of interstate crossing in Baton Rouge and the surrounding regions		
02/23 – 05/25	East Baton Rouge Parish Flood Risk Reduction Project on Jones Creek Channel Improvements – East Baton Rouge Parish Engineer of Record. This project required Quality Level “B” Subsurface Utility Engineering including all subsequent Quality Levels for approximately 4.2 miles of channel improvements along upper Jones Creek and several of its tributaries. SJB Group assisted in development of the project scope to meet all the needs for completion of this critical project. Extensive records research was performed to note all utilities throughout the project limits. Quality Level “B” designating was performed at all bridge crossings along the channel to locate all utility lines. In addition, any standalone utility lines discovered during records research that intersected the channel were investigated to achieve Quality Level “B” data. SJB Group was also tasked with providing Utility Coordination during the design phases of the project.		
8/21 – 04/24	City/Parish Project No. 20-CP-HC-0044 – MOVEBR Widening of Lee Drive (Highland to Perkins) SUE Engineer. This project involved ASCE 38-02 Quality Level C SUE services for all utilities within the project corridor as a sub-consultant. Prior to Quality Level C services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. This corridor is heavily congested with utilities making the accurate location of such a critical part of the ultimate design of the project.		
10/22 – 5/23	City-Parish Project No. 20-CP-US-0099 – MOVEBR Airline Highway, North (Florida Blvd to Interstate I-110) SUE Department Manager/Engineer of Record. SJB Group completed ASCE 38-02 Quality Level D services for the project as a sub-consultant to Huval & Associates. There is a heavy congestion of utilities within these project limits and identification of utility owners and approximate locations is critical to the preliminary design of the project.		

08/22 – 09/23	LADOTD Task Order No. H.001820.5-3 – LA 485 Bridges Near Allen Construction Inspection – LADOTD SUE Project Manager. SJB Group will provide construction coordination and monitoring for the relocation of three water mains in conflict with the project alignments at three bridge locations.
04/22 – 03/23	City-Parish Project No. 20-CP-US-0100 – MOVEBR Airline Highway, South (Parish Line to Bluebonnet Blvd) SUE Department Manager/Engineer of Record. SJB Group completed ASCE 38-02 Quality Level D services for the project. There is a heavy congestion of utilities within these project limits and identification of utility owners and approximate locations is critical to the preliminary design of the project.
4/22 – 11/22	LADOTD Project No. H.031797 – LA30: EBR PL I-10 – LADOTD SUE Department Manager/Engineer of Record. SJB Group was contracted to provide Property Surveys, GIS, LiDAR Scanning, and SUE as a sub-consultant to Michael Baker to further the feasibility studies of the LA 30 corridor from the East Baton Rouge Parish Line to I-10 in Gonzales. This corridor is a key industrial corridor for rail and freight traffic and needs significant additional roadway capacity. Careful planning was required to ensure a successful project addressing all potential impacts including existing utilities which is often the driving factor in the design of a project. This project required ASCE 38-02 Quality Level “D” services throughout the entire project limits. Due to the significant number of pipelines within the corridor, SJB Group also conducted field observations to determine the order of the pipelines within the right-of-way. These field observations of pipeline markers resulted in several additional pipelines being identified beyond the records that were received.
10/21 – 03/22	LADOTD Project No. – I-110 North to Plank Road – LADOTD SUE Engineer of Record. This project involved ASCE 38-02 Quality Level C and D SUE services for all utilities on this LA DOTD project in East Baton Rouge Parish. Quality Level C and D services requires extensive records research to aid in the subsequent SUE design.
08/21 – 02/22	LADOTD Project No. H.012851 – UP RR Corridor (Plaquemine) – LADOTD SUE Engineer of Record. This project involved Quality Level B, C, and D subsurface utility engineering and utility surveying as well as a Topographic Survey for the project located in Iberville Parish along the Union Pacific Railroad Corridor between the intersection of LA 1 and Bayou Road and the intersection of Belleview Drive and Railroad Avenue.

16. Staff Experience:

Firm employed by SJB Group, LLC			
Name	Bradley Jacobs, EI	Years of relevant experience with this employer	1
Title	Senior Technician	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		B.S. / 2015 / Civil Engineering	
Active registration number / state / expiration date		Engineer in Training: 32456 / LA / 9/30/2027	
Year registered	2015	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Senior Surveyor Technician	
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).		
9/25-01/26	LADOTD Project No. H.000112 US 190: UPRR Overpass, Opelousas. LA – LADOTD Survey Technician. This project is a complete topography for the I-49 and the UPRR Railroad Bridge in Opelousas. This also included topography for the US 190 and Bayou Teche Bridge Replacement. Responsibilities included coordination with crews, topography, reviewing and importing of Mobile LiDAR data, and creating topographic surveys, packet for submittal and review by supervising professionals.		
9/25-10/25	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.047, Vermilion Parish, LA – OLHC Senior Survey Technician. This project is a complete topography and property survey for a single bridge. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.		
4/22 - 9/25	MSY Airport, New Orleans, LA Survey Technician. This project included various topographic surveys for MSY Airport to support ongoing infrastructure improvements and planning efforts. The surveys provided detailed elevation data, surface features, and existing conditions across multiple areas of the airport property. This information was critical for design accuracy, drainage analysis, and coordination with future construction activities.		
08/22 – 11/22	LADOTD Contract No. 4400017091 Louisiana Watershed Initiative Region 5 – Task Order 3 – LADOTD Survey Technician. Mr. Jacobs supported the Louisiana Watershed Initiative by processing survey field data to ensure accuracy for hydrologic and hydraulic modeling needs. Developed detailed punch-lists to guide field crews, ensuring complete and efficient data collection across project sites. Performed quality checks on incoming survey data to maintain project standards and support downstream engineering analysis.		
01/22 – 11/22	LADOTD Contract No. 4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2 – LADOTD Survey Technician. Mr. Jacobs supported the Louisiana Watershed Initiative by processing survey field data to ensure accuracy for hydrologic and hydraulic modeling needs. Developed detailed punch-lists to guide field crews, ensuring complete and efficient data collection across project sites. Performed quality checks on incoming survey data to maintain project standards and support downstream engineering analysis.		

9/25-Present	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048, Vermilion Parish, LA – OLHC Senior Survey Technician. This project is a complete topography and property survey for seven bridges. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.
02/23-12/23	LADOTD Project No. H.012027.5 - I-20 UPPR, Caddo Parish, LA – LADOTD Survey Technician. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices.
04/21 – 06/21	LADOTD Project No. H.01689 - LA 182 @ LA 723 Roundabout, Lafayette Parish, LA – LADOTD Survey Technician. Performed field data collection for topographic and property surveys, establishing survey control and centerlines using GPS and traditional methods. Responsibilities included recovering property corners, locating utilities, and assisting with right-of-way mapping for design purposes. The technician processed field data, verified accuracy, and prepared survey packets for review in compliance with DOTD standards and project requirements.

17. Firm Experience:

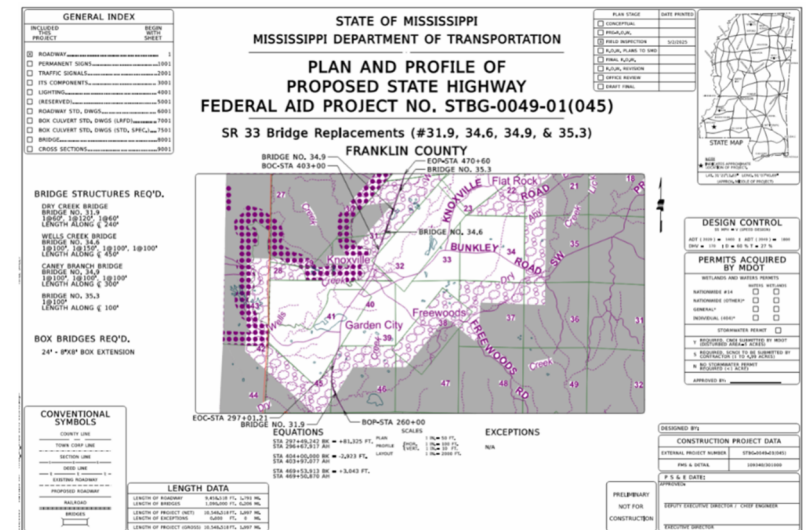
Firm name	Hardesty & Hanover	Past Performance Evaluation Discipline(s)*	Road
Project name	SR 33 Roadway Replacement	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Mississippi Department of Transportation
Project location	Knoxville, MS	Owner's Project Manager	Chris Nail, PE
Owner's address, phone, email	401 N West Street, Jackson, MS, 39201 601.359.7258 cnail@mdot.ms.gov		
Services commenced by this firm (mm/yy)	11/24	Total consultant contract cost (\$1,000's)	\$228
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$228

H&H is providing Phase A Final Right-of-Way Plans for roadway design and roadway hydraulic design for four bridge replacements along SR 33 (Bridge Nos. 31.9, 34.6, 34.9, and 35.3) in Franklin County, MS.

The scope for the project includes Roadway Realignment, Roadway Hydraulic Design, Preliminary Right-of-Way Design, and Final Right-of-Way Design. H&H is tasked with realignment of the roadway to run parallel to the existing as well as redesign of one intersection at the end of the project.

H&H developed a hydraulic study and report to verify existing pipe sizes and sizing for a reinforced box culvert. A set of Preliminary Right-of-Way plans were created following MDOT's guidelines and using the approved alignment from MDOT. H&H created Field Inspection Plans following Preliminary Right-of-Way plans where a field inspection of the project site was performed. At the field inspection, any potential issues at the site were addressed and noted to be updated for the Final Right-of-Way plans. Final Right-of-Way Plans will be turned in after Hydraulic Design and Roadway Design have been finalized and a plan set has been created.

To develop the plans, Microstation OpenRoads Designer was used to provide design and 3D modeling of the project site as well as creating plan sheets. This also allowed drainage design to be created using HYDRWIN and quad maps of the area.

**Scope of Work Relevant to the Contract:**

- Roadway Relocation
- Roadway Design
- Drainage Study
- Intersection Improvement

Key Members: Babak Naghavi, PE, PH, PhD; John Rayer, PE; Robert Hideck, PE; Will Farber, EI; and Lauren Peytavin, EI

17. Firm Experience:

Firm name	Hardesty & Hanover	Past Performance Evaluation Discipline(s)*	Road
Project name	SR 826 Palmetto Expressway Design - Build		Firm responsibility (prime or sub?) Prime
Project number	N/A	Owner's name	Florida Department of Transportation
Project location	Miami-Dade County, FL	Owner's Project Manager	Raul Quintela, PE
Owner's address, phone, email	1000 N.W. 111 Avenue, Miami, Florida 33172 305.470.5457 raul.quintela@dot.state.fl.us		
Services commenced by this firm (mm/yy)	04/21	Total consultant contract cost (\$1,000's)	\$66,054
Services completed by this firm (mm/yy)	02/25	Cost of consultant services provided by this firm (\$1,000's)	\$6,948

The SR 826 Palmetto Expressway is a multi-lane, limited access expressway crossing FEC Railroad, connecting SR 826, I-75, Florida's Turnpike and I-95. The recent completion of express lanes revealed the need for additional operational improvements with expedited delivery through design-build. The project provides:

- An additional southbound lane, auxiliary lanes, improved shoulder widths,
- Major modifications to the NW 103rd St. interchange, revised lane access to the southbound express lanes, a new toll site, and
- Safety improvements on the adjoining frontage road system.

H&H is the lead designer, responsible for roadway, drainage, permitting, temporary traffic control, bridge, tolling, and retaining wall design and coordination of five subconsultants. Key scope items included:

Roadway/Drainage: Four miles of expressway widening and resurfacing and five miles of frontage road improvements including new paved shoulders and sidewalks, while avoiding utility impacts on this schedule critical project. The drainage network includes an extensive French drain system and conversion of a conceptual permit to two construction permits.

Structures: Diverse structure improvements including 3R improvements to two frontage road bridges over the Little River Canal, widening of the southbound structures over Metrorail and FEC railroads, widening of northbound and southbound bridges over NW 103rd Ave, and major modifications to the 103rd Ave flyover, including a pier relocation and a lane reduction.

Key innovations used to enhance constructability include:

- A revised southbound lane reduction transition to eliminate a 4-ft. bridge widening.
- Reuse of sign structures and foundations to reduce supply chain delivery issues and eliminate two water-borne foundations.
- Reconfiguration of flyover foundations to balance loading during construction and final conditions, and the use of steel towers to support the flyover during pier reconstruction.

**Scope of Work Relevant to the Contract:**

- Staged Construction Maintaining Traffic
- Roadway Design
- Drainage Design

Key Members: Stephan Heimburg, PE; Robert Hideck, PE; J. Webb Jones, PE; Erik Diaz, PE; James Wolczynski, PE; Linh Kim, PE; and Benjamin Bower, PE

17. Firm Experience:

Firm name	Hardesty & Hanover	Past Performance Evaluation Discipline(s)*	Road
Project name	Orlando South Ultimate Interchange Improvements		Firm responsibility (prime or sub?) Prime
Project number	N/A	Owner's name	Florida Department of Transportation
Project location	Orlando, FL	Owner's Project Manager	Ashraf Elmaghraby, PE
Owner's address, phone, email	MP 263 Bldg. 5315, Ocoee, FL 34761 / 407.264.3043 / Ashraf.Elmaghraby@dot.state.fl.us		
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost (\$1,000's)	\$5,850
Services completed by this firm (mm/yy)	06/20	Cost of consultant services provided by this firm (\$1,000's)	\$5,265

The Orlando South Interchange connects two toll routes Florida's Turnpike (SR 91) and the Beachline Expressway (SR 528) and provides connections to the surface streets. Originally built in 1964, both principal routes have been widened to 8-lanes. Key deficiencies of the interchange were:

- Substantial truck traffic and nearby intersections allow congestion to propagate into system
- Low speed loop ramps are a safety concern
- Need to replace Beachline bridges over the Turnpike for 10-lane expansion
- Existing double trumpet configuration has less desirable weaving operations
- Lack of direct freeway connections for eight movements



H&H lead the PD&E effort to develop multiple interchange configurations to address needs. The effort included development and screening of hundreds of schematic components to provide three build alternatives for further environmental and engineering analysis. Build Alternatives and no-Build option were presented to the public in a public meeting. Engineering analysis included conceptual design of layout, profiles, bridges, tolling, signing, ITS, pond sites and development of conceptual staging plan. Environmental analysis included evaluation of natural, physical, and cultural features that were documented in a State Environmental Report. The preferred alternative addressed project needs and improved local street operations such that there is a 48% reduction in signalized intersection delay relative to the no-build. Key benefits of the preferred alternative include:

Systems Continuity and Capacity

- New Directional Ramps Connecting the Beachline Expressway and Florida's Turnpike
- Future mainline expansion with longer bridges over the Turnpike

Systems Operations

- Auxiliary lanes and braided ramps between interchanges
- Separation of systems and service ramps

Ramp Safety and Operations

- Separation of ramps to eliminate weaving
- All Electronic Toll (AET) collections with ORT gantries

Surface Street Capacity and Operations

- New reliever interchanges to disperse traffic demand
- Removal of selected ramps to reduce OBT demand
- Diverging Diamond Interchange at Consulate Dr. ramps

Scope of Work Relevant to the Contract:

- Interchange Improvement
- Roadway Design
- Drainage Design
- Management of Multiple Subconsultants

Key Members: Stephan Heimburg, PE; Robert Hideck, PE; J. Webb Jones, PE; Benjamin Bower; and James Wolczynski, PE

17. Firm Experience:

Firm name	Urban Systems, Inc.	Past Performance Evaluation Discipline(s)*	Traffic
Project name	US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design/Build	Firm responsibility (prime or sub?)	Sub
Project number	SP H.010620	Owner's name	LADOTD
Project location	Lafayette Parish, LA	Owner's Project Manager	Peggy Jo Paine, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana, 70802 225-379-1065 peggy.paine@la.gov		
Services commenced by this firm (mm/yy)	01/14	Total consultant contract cost (\$1,000's)	Unknown
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm (\$1,000's)	\$232

Urban Systems, Inc. was part of the Design/Build team under the engineering task for this project. The project included upgrading a portion of US 90 from a four-lane facility to a six-lane facility with controlled access. The project also included providing a system of frontage roads to provide connectivity. Urban Systems was responsible for a variety of tasks including developing a signage plan, traffic signal plans, temporary traffic control plans (TCDP), traffic analysis and a Level 3 Traffic Management Plan (TMP) based on **LADOTD EDSM VI.1.1.8**.

**Signage and Traffic Signal Plans**

As part of the definitive design portion of this project, USI developed signage and traffic signal plans based on LADOTD requirements. The traffic signal plans were also developed in the latest LADOTD TSI format. These plans were updated during the construction phase of the project as unforeseen issues arose. USI worked closely with the contractor, team members and local entities throughout the construction phase.

Temporary Traffic Control Plans (TCDP)

Temporary traffic control plans were developed for the various phases of construction. These plans also included temporary traffic signals for some of the phases. These plans were developed to meet the current LADOTD standards. Additional traffic control plans were developed during the construction phase of the project as required by the contractor. Some of these plans involved complicated detours and devices to not affect traffic while completing construction.

Traffic Study and TMP

Traffic analysis was conducted during the project to determine the impact construction and the proposed configuration would have on traffic conditions. Traffic volumes were re-routed for each phase on construction and capacity analysis was conducted for each scenario. A unique part of this TMP is that the initial models developed will continue to be modified throughout construction to analyze the not only each phase of construction, but also for any changes to the originally proposed sequence.

Scope of Work Relevant to the Contract:

- Roadway Design
- Signage and Traffic Signal Plans
- Temporary Traffic Control Plans
- Traffic Study & TMP

Key Members: Alison Michel, PE, PTOE, PTP, RSP₂; Nicole H. Stewart, P.E., PTOE

17. Firm Experience:

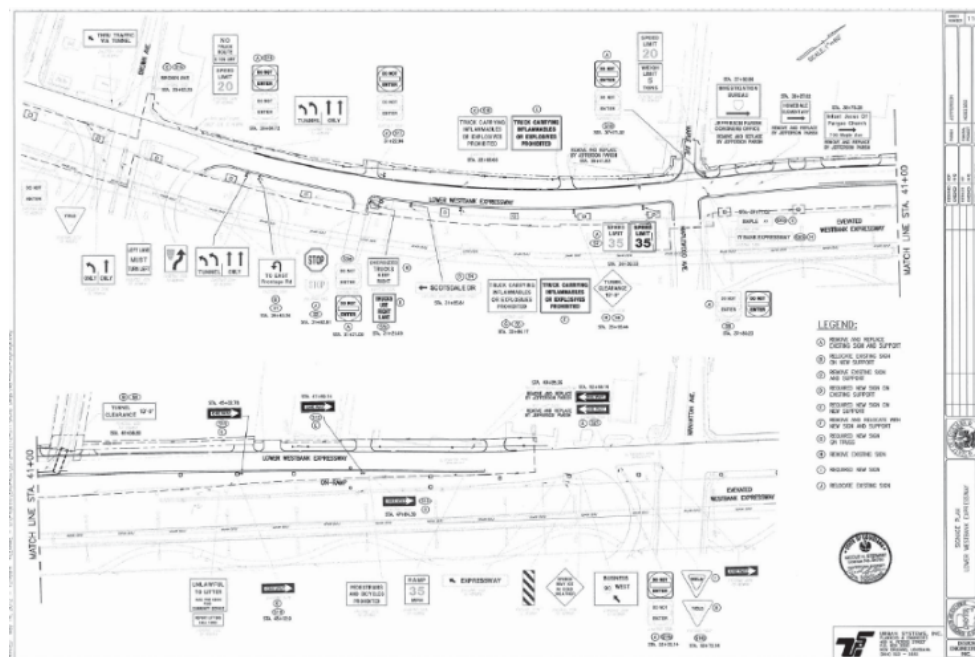
Firm name	Urban Systems, Inc.	Past Performance Evaluation Discipline(s)*	Traffic
Project name	MacArthur Drive Interchange Completion Phase 1	Firm responsibility (prime or sub?)	Sub
Project number	H.009933	Owner's name	Jefferson Parish
Project location	Harvey, Jefferson Parish, LA	Owner's Project Manager	Susan Treadway
Owner's address, phone, email	1221 Elmwood Park Blvd, Suite 904, Jefferson, LA (504)736-6530 Susan.Treadway@jeffparish.gov		
Services commenced by this firm (mm/yy)	03/12	Total consultant contract cost (\$1,000's)	Unknown
Services completed by this firm (mm/yy)	09/16	Cost of consultant services provided by this firm (\$1,000's)	\$25.5

This project was for Phase I of the MacArthur Interchange Completion project, which included preliminary and final design for the new off and on ramps for the elevated westbound Westbank Expressway in Harvey, Louisiana between Manhattan Boulevard and Peters Rd. As the Traffic Engineering consultant for this project, Urban Systems, Inc. successfully completed the plans for the proposed construction sequencing, permanent signage, roadway striping and traffic signal design at the Brown Ave and Maple Ave intersections with the new ramps at the lower Westbank Expressway.

Urban Systems, Inc. developed the sequencing, which ultimately resulted in five construction phases. The Traffic Control Devices Plans were critical to facilitate traffic safely through the traffic control zone. These plans included lane closures, lane width reductions, detours and strategically sequencing the closure of commercial driveways to ensure that access to all businesses was maintained throughout construction.

The permanent signage and striping plans were prepared to guide motorists safely and properly to the new ramps. The signage design included both regulatory and guide signs, both smaller post mounted signs and large overhead structure mounted signs.

Urban Systems, Inc. also prepared the plans for the permanent traffic signals at Brown Avenue and Maple Avenue intersections with the Lower Westbank Expressway. All plans were prepared to be in accordance with the 2009 edition of the Manual of Uniform Traffic Control Devices and the Louisiana Department of Transportation and Development's 2006 Standard Specifications for Roads and Bridges.

**Scope of Work Relevant to the Contract:**

- Roadway Design
- Construction Sequencing
- Permanent Signage and Striping
- Traffic Signal Design

Key Members: Alison Michel, PE, PTOE, PTP, RSP₂₁; Nicole H. Stewart, P.E., PTOE; Christine M. Darrah, PE; and Matthew Morgan, PE, PTOE

17. Firm Experience:

Firm name	SJB Group, LLC.	Past Performance Evaluation Discipline(s)*	Survey
Project name	LA 1 to LA 415 Connector to Interstate 10	Firm responsibility (prime or sub?)	Prime
Project number	H.005121	Owner's name	LADOTD
Project location	Port Allen, West Baton Rouge Parish, Louisiana	Owner's Project Manager	Jonathan Herrod
Owner's address, phone, email	1202 Capital Access Road, Baton Rouge, LA 225-379-1105 Jonathan.Herrod@la.gov		
Services commenced by this firm (mm/yy)	10/23	Total consultant contract cost (\$1,000's)	\$1,117
Services completed by this firm (mm/yy)	12/24	Cost of consultant services provided by this firm (\$1,000's)	\$243

This project provides field data for the final design of a roadway to connect LA 1 to LA 415. The project is a supplement to previously performed surveying for the realignment due to recent development and construction. The project limits included a 2.9-mile corridor beginning approximately 0.2 miles north of the intersection of I-10 and LA 415 and continuing in a southeasterly direction along the extension of LA 415 across the intercoastal canal, industrial areas, and agriculture field to the intersection of LA. The project limits also include an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas.

The project includes the collection of current conditions of the areas included in the project limits and merging the current data with the previous survey and updating any observed condition changes. The project included the recovery and supplement of the existing control network. The collection of field data is completed through the utilization of conventional survey methods with survey total stations and global positioning systems (GPS). Mobile LiDAR survey methods utilized for the collection of data along the high traffic segments of LA 1, Interstate 10 ramps, and LA 415.

The data was processed through Trimble Business Center, with data extraction performed through TopoDot. The survey is being conducted according to the Louisiana Department of Transportation and Development Location and Survey Manual. The deliverables were provided in accordance with the LADOTD guidelines for electronic deliverables.

**Scope of Work Relevant to the Contract:**

- Topographic Survey
- Subsurface Utility Engineering (SUE)

Key Members: Charles "Tim" Brewer, PLS

17. Firm Experience:

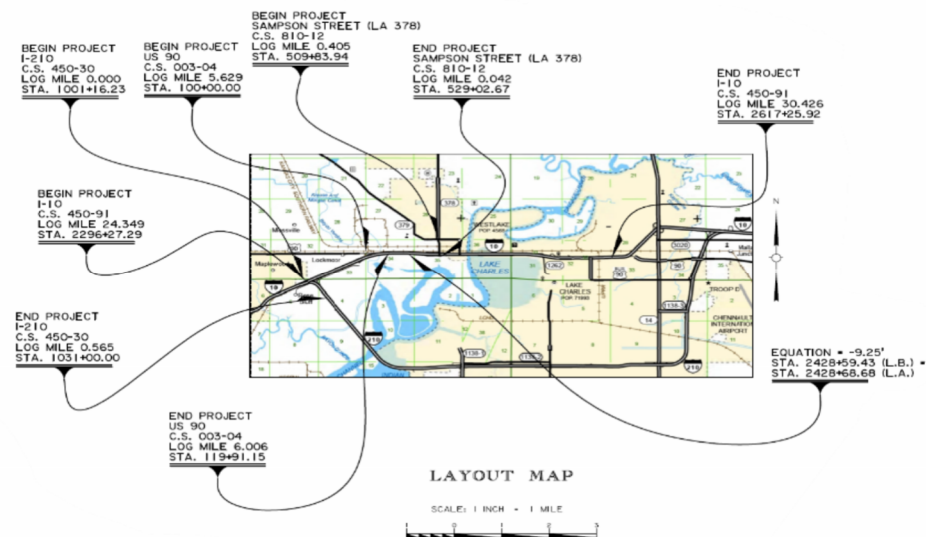
Firm name	SJB Group, LLC.	Past Performance Evaluation Discipline(s)*	Survey
Project name	I-10 Calcasieu River Bridge Public-Private Partnership Project	Firm responsibility (prime or sub?)	Sub
Project number	H.003931	Owner's name	LADOTD
Project location	Calcasieu Parish, Louisiana	Owner's Project Manager	Paul Vaught, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 225-379-1816 paul.vaughtiii@la.gov		
Services commenced by this firm (mm/yy)	08/24	Total consultant contract cost (\$1,000's)	\$130
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$3

SJB Group is undertaking critical tasks for the I-10 Calcasieu River Bridge project, including Property Surveying, limited Topographic Surveying (to verify and supplement existing topographic surveys), and Utility Coordination throughout the project limits. This initiative is the largest in the history of the LADOTD and one of North America's most substantial infrastructure projects commissioned in 2023. The existing bridge demolition and replacement will have a significant impact on existing properties and utility facilities within the limits of the project which is a heavily congested residential, commercial and industrial corridor.

The Property Surveying work covers a 5.5-mile stretch of Interstate 10 within the design-build boundaries. This extensive task involves thorough title research to gather existing surveys and deeds, field surveying, and mapping for all parcels along the corridor. The range of properties includes small residential lots to large commercial and industrial tracts. Right-of-way acquisition will be necessary for segments of the project. All property surveys and Right-of-Way Mapping will adhere to the Standards of Practice for route surveys set forth by the Louisiana Professional Engineering and Land Surveying Board, as well as LADOTD's Location and Survey Manual

requirements. The technical provisions of the project require the developer to verify and confirm the location, accuracy and datum of the survey control network provided by DOTD in the bid phase of the project. This was completed using a control network from the provided network to establish fixed horizontal coordinate results for each location of the provided control. There will also be additional topographic surveys necessary to supplement the topographic survey provided by DOTD.

The bridge relocation and the reconfiguration of interchanges will extensively impact utilities within the project limits. These utilities include both local, municipally owned infrastructure to large industrial pipelines. The coordination of these utilities' relocation is a complex, iterative process requiring collaboration with LADOTD, developers, property owners, and utility stakeholders to ensure the project adheres to budget and schedule constraints.

**Scope of Work Relevant to the Contract:**

- Property Survey
- Topographic Survey
- Right-of-Way Mapping
- Subsurface Utility Engineering (SUE)

Key Members: Charles "Tim" Brewer, PLS

18. Approach and Methodology:

PROJECT UNDERSTANDING

Hardesty & Hanover (H&H) brings a strong understanding of LADOTD's goals to deliver safer, cost-effective roadways that meet current standards and serve the needs of the public. H&H is a leader in innovative roadway design and has the experienced staff in place to mobilize quickly and efficiently on projects assigned under this IDIQ contract. Our team members have delivered various major relevant projects including highway widenings, intersection improvements, ADA compliant pedestrian facilities, ramps, and construction of new and rehabilitated roadways to extend service life and enhance safety.

H&H will provide the professional and technical resources needed to successfully deliver each project, with a focus on exceeding roadway life expectancies while keeping safety and costs in mind. Designs will prioritize public safety and long-term value, helping reduce future maintenance expenses for LADOTD and minimizing cost burdens for taxpayers.

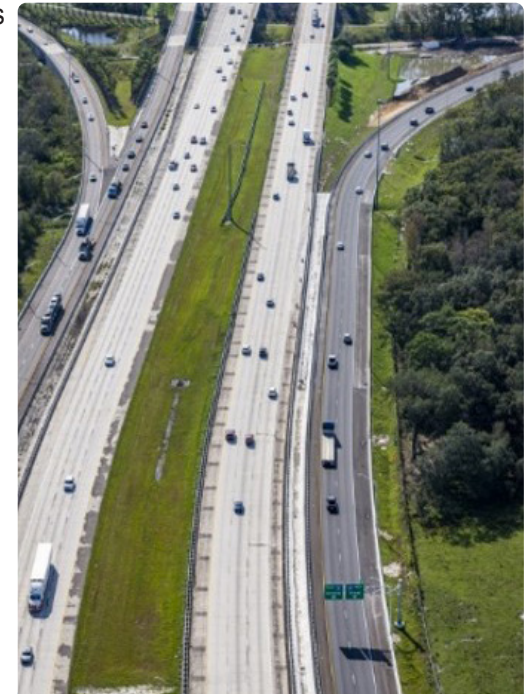
H&H understands that Task Orders (TOs) under this IDIQ will be issued primarily for roadway design projects. H&H can provide LADOTD with any additional relevant design services that may be required. H&H has the staff and resources necessary to handle multiple, concurrent TOs that may be assigned. We understand that the services provided under this IDIQ contract will generally consist of the following, as applicable to the individual TOs:

- Topographic Surveys
- Preparation of Location Plans for Subgrade Soil Borings
- Preliminary and Final Roadway Design and Plan Development
- Construction Proposal
- Hydraulic Analysis and Design
- Development of Opinion of Probable Construction Cost
- Permit Drawings as needed for Environmental Clearance
- Development of Special Provisions
- Construction Support

PROJECT TEAM

The H&H project team includes professionals who are well suited to provide comprehensive design services to LADOTD on this IDIQ contract. We have a long history of successfully delivering roadway and bridge design projects to LADOTD.

Project Manager Dr. Bobby Naghavi's 44 years of engineering and project management experience provides him with a thorough understanding of the LADOTD project delivery requirements for roadway design projects and similar projects. **During his 25 years of working at the LADOTD**, Dr. Naghavi participated in multiple complex projects carrying out contract management, financial management, and development of scope and compensation for various project phases. For the past 19 years, he has managed various engineering contracts concurrently. Some of these large IDIQ contracts included 100+ task orders; several ran simultaneously and required coordination with multiple subproviders, stakeholders, and clients. In one \$90M IDIQ contract, over \$60M in design fees were assigned and completed within five years. One task order was a large, accelerated reconstruction project that needed to be completed before the start of hurricane season. The project was successfully designed on an expedited schedule within three months of the NTP date and met the construction schedule.



H&H provided the design for the I-75 interchange improvement project at I-4 in Hillsborough County, FL.

Our H&H road design team consists of staff with LADOTD design experience for roadway design projects. The team will utilize John Rayer, PE as our in-house Project Engineer to oversee project details and plan preparation. **John Rayer has 8 years of experience working on LADOTD projects, including nearly 4 years as a design engineer in the LADOTD Road Design Section.** Our team also includes sub-consultants that we have successfully worked with in the past with extensive experience in their specialty areas. Our skilled team includes SJB Group, LLC (SJB) for surveying services and Urban Systems, Inc. (USI) for traffic engineering and analysis services. Our project team is committed to partnering with LADOTD and project stakeholders to create a robust approach and cost-efficient response and delivery. We will be responsive to your needs, while providing innovations and cost savings to the department. Our goal is to team with LADOTD as a qualified full-service engineering firm to provide roadway design engineering services.

PROJECT APPROACH & METHODOLOGY

SURVEY

Our sub-consultant, SJB, will provide topographic surveys in accordance with current surveying standards and best practices, following the latest version of the LADOTD Location and Survey Manual and established LADOTD surveying methods. This includes all accepted horizontal and vertical control standards as stated in the manual. The LADOTD feature table code list and symbols shall be utilized and met with those included in the latest edition of the survey feature code guidebook produced by the LADOTD Location and Survey Section and Automation. 3D Terrestrial Scanning may be utilized in conjunction with traditional means and methods to capture topography as applicable for each site and will adhere to all LADOTD Standards as related to Terrestrial and Mobile Scanning. All deliverables will adhere to the Electronic standard as set forth by LADOTD.

DATA COLLECTION & SITE VISIT

While the topographic survey is being completed, we will begin acquiring the necessary information on which we will base the design. Once the survey is completed, we will review the survey and generate roll plots to take into the field. We will make our first site visit to assess any design risks that need to be mitigated and consider any obstacles that will need to be remedied in the design. This site visit will also give us the opportunity to coordinate directly with the district to get their understanding of the goals of the project. This upfront field investigation allows us to anticipate potential design issues that typically come up at the 95% preliminary Plan-In-Hand (PIH) meeting and prevent rework later which can impact the schedule. All information from the field will be compiled and anything that needs to be added to the Project Management Plan will be tracked to maintain an action list of all factors.

DEVELOP PRELIMINARY PLANS

H&H will develop preliminary plans for TOs assigned under this IDIQ contract including Title Sheets, Summary of Estimated Quantities, Plan & Profile sheets, Drainage (if required), Cross Sections, and all other associated sheets required for project completion. All work will be in accordance with the latest Road Design Manual, Design Criteria Guidelines, the LADOTD Hydraulics Manual, and all other applicable



H&H provided the expedited design for the widening & resurfacing of the SR 826 Palmetto Expy and frontage road improvements.

LADOTD design manuals. The concept of practical designs will also be leveraged to the benefit of the project and LADOTD.

H&H will also prepare and submit the design report, any design exceptions or waivers, if required, Storm Water Pollution and Prevention Plan, and cost estimates as needed to submit along with the Preliminary Plans.

We will submit preliminary plans at 60%, 95%, and 100%. Additionally, the PIH Meeting will be held following the 95% submittal. The preliminary hydraulic report will be submitted with the 60% submittal. Construction cost estimate, preliminary design reports, and any design exception or waiver requests will be included with each preliminary submittal.

HYDRUALIC ANALYSIS & DESIGN

H&H will provide all engineering services necessary for the hydraulic analysis and design of drainage features on roadway construction projects. The H&H team is very familiar with the DOTD requirements as well as the design of hydrologic and hydraulic systems in state of Louisiana. DOTD's requirements which will govern hydraulic analysis and design are specified in the current edition of DOTD's Hydraulics Manual. Dr. Naghavi was the original author of the LADOTD Hydraulics Manual as well and all hydraulics programs currently being used by LADOTD and other consultants throughout Louisiana.

GEOTECHNICAL & PAVEMENT DESIGN

We understand that LADOTD will be providing all subsurface soil investigations and laboratory analyses, including core drillings and borings with laboratory reports, as well as the pavement design for required roadway sections for projects assigned under this IDIQ contract.

ENVIRONMENTAL PROCESS

H&H will assist DOTD in the preparation and distribution of the Solicitation of Views (SOV). H&H will develop engineering drawings and details which illustrate proposed work with the purpose of obtaining required permit(s). H&H will schedule, coordinate, advertise for and hold public meetings, collect and assist in responding to stakeholder comments, prepare exhibits and technical presentations, and actively attend public meetings and hearings as necessary to complete the environmental process, as necessary.

TRAFFIC ANALYSIS & MODELING

USI is well positioned to perform traffic analyses, Traffic Signal Plans, Traffic Management Plan, and Traffic Control Design functions for roadway projects assigned under this contract. USI utilizes MicroStation, AutoCAD, AutoTURN, and the full suite of LADOTD-approved traffic engineering software, Synchro, SIDRA and

VISSIM. USI staff are highly familiar with the traffic analyses and studies required by FHWA and LADOTD for funding purposes. Traffic signal plans will be developed in accordance with the latest LADOTD Traffic Signal Design and Traffic Engineering Manuals, as well as the Manual on Uniform Traffic Control Devices (MUTCD). USI has prepared numerous traffic control plans in compliance with MUTCD and LADOTD standards across a broad range of project types, including roadway reconstruction and widening, drainage and sewer system improvements, highway and interstate construction, drainage pump station construction, as well as commercial, retail, and entertainment developments. Safety analysis has evolved from qualitative studies based on observations and engineering judgement to **quantitative analysis using methods in the Highway Safety Manual**. USI has stayed up to date on the changing landscape of safety studies and Road Safety Professional certification. USI is familiar with the Safe Systems Approach and have conducted **numerous safety studies for LADOTD and multiple parishes**.

USI has experience in the development of Transportation Management Plans (TMPs) for a wide range of projects across all TMP levels (1 through 4), from complex interchange modifications, to single lane closures. A TMP defines management strategies to mitigate work zone impacts and outlines how those strategies will be implemented. These strategies may include temporary traffic control measures, public information and outreach, and operational approaches such as travel demand management, signal retiming, and incident management. Depending on project complexity and anticipated impacts, TMPs may include 7-day, 24-hour traffic counts; existing conditions analyses using tools such as Synchro; safety analyses; alternative route analyses; stakeholder coordination; temporary traffic control plans and details; public information strategies; and work zone management strategies.

DEVELOP FINAL PLANS

Once environmental clearance is received, H&H will prepare final plans in accordance with the requirements of the TO as well as the original advertisement. We will prepare a complete set of all plan sheets, an updated cost estimate, QA/QC, constructability forms, as well as the design report. We will submit final plans at 60%, 95% (Advanced Check Prints), 98%, and, upon approval from the LADOTD PM, 100% (Sealed Final Plans). The final hydraulic report will be submitted with the 60% submittal. Final plans will include signed and sealed plans, all final stamped reports, construction cost estimates, special provisions, NS pay items, calculations, and any additional specifications.

CONSTRUCTION SUPPORT

H&H's experienced team will be available throughout the projects' construction phase. We will provide quick responses to RFIs during construction to avoid delays and cost overruns. We have the knowledge and expertise to quickly analyze and resolve issues to maintain project schedules.

PROJECT MANAGEMENT

H&H has a strong understanding of LADOTD's Plan Delivery Process. Our project management methodology is outlined in the following sections.

PROJECT INITIATION

Project Manager Dr. Naghavi will meet with the LADOTD PM to review the scope and develop our project-specific Project Management Plan (PMP). Our PMP includes:

- A Detailed Scope of the Project
- A Detailed Schedule
- Plan Review and Project Coordination Meetings
- Project Design Criteria
- Anticipated Project Delivery Milestones
- Project-Specific QA/QC Plan
- Project Risk Register
- Identification of any Special Coordination or Utility Needs
- Our Tailored Communications Plan
- Road Design Report

This plan allows us to gather all the project information efficiently to review and coordinate with the LADOTD PM in advance of the design kickoff meeting, which will help the design process run more smoothly. This PMP is maintained throughout the life of each project so that as more information is developed and critical risks or concerns arise, they can be documented.

KICKOFF MEETING

Dr. Naghavi will coordinate a kickoff meeting with the LADOTD PM and pertinent LADOTD technical staff to discuss the primary goals of the project and review the draft PMP. This will be an opportunity for the H&H team and LADOTD staff to clarify any questions or concerns from either party and to set the stage for a straightforward design process. Prior to the kickoff meeting, we will gather all traffic data, pavement design information, standard plans, and/or any other pertinent information made available by LADOTD. This kickoff meeting will also be used as an opportunity to collect any additional existing information pertinent to the project, such as: As-built Plans; Feasibility Studies/Traffic Studies; Environmental Documents; and Existing Utility Information. After the minutes from the kickoff meeting have been distributed, our team will coordinate with the LADOTD PM to schedule a field visit to the site, and coordinate/meet with the district personnel to discuss their priorities and obtain any additional information once we have our boots on the ground.

PROJECT MEETINGS

In addition to the meetings noted above, H&H will lead routine design meetings, Preliminary Plan Review Meetings and any other meetings deemed necessary. H&H will also participate in Public Meetings and Public Hearings, etc., as necessary.

SCHEDULE

A detailed schedule will be developed and will identify major milestones necessary to complete each project within an acceptable schedule and on time. Below is an example of our estimated schedule for a typical roadway design project that could be assigned under this IDIQ. The time required to complete each project will vary, depending on the scope and size, as well as LADOTD reviews and time required for environmental clearance which will be obtained by LADOTD. H&H strives to complete projects ahead of their scheduled completion date, when possible.

Sample Roadway Project Schedule																		
Task	Months																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Kickoff Meeting & Site Visit																		
Topographic Surveys																		
Preliminary Plans Development																		
Traffic Analysis																		
Environmental Clearance																		
Final Plans																		

Note: The schedule provided illustrates a typical project timeline; total duration may vary depending on project-specific needs, conditions, and complexity.

H&H will be responsible for project tracking and will deliver all tasks on schedule. All correspondence will include applicable state project numbers, along with the project names, route number, parish, and federal aid project numbers. We will provide the LADOTD PM with a monthly project schedule (in Microsoft Project) and progress report including the estimated and actual date of completion of each task to be performed and the monthly invoices using the LADOTD's standard form for invoicing. A completed Contract Tracking spreadsheet will be submitted with each invoice.

DELIVERABLES

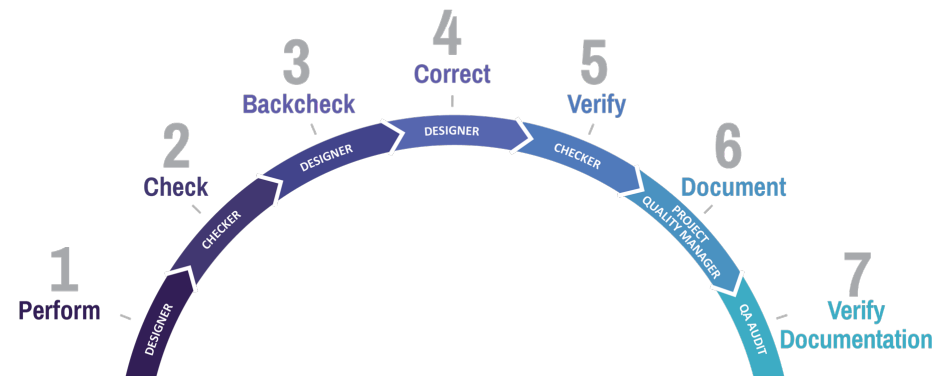
The H&H Team is proficient in using LADOTD's current preferred software including Bentley ProjectWise Explorer V8i, Bentley MicroStation V8i, Bentley InRoads V8i (SS2), CADConform, HYDRWin, and all other pertinent software programs required to complete LADOTD projects. With the knowledge that Bentley is sunsetting InRoads (SS2), we have already started with its transition to Bentley's OpenRoads platform; a unique advantage once implemented. H&H staff have been utilizing OpenRoads since Bentley released this software and will be an excellent resource for our team for training and assistance. The specific project deliverables include

- Design Criteria
- Design Report Form
- Preliminary Plans with Engineer's Estimate
- Draft Design Waivers or Design Exceptions (if required)
- Final Plans with Engineer's Estimate

QUALITY ASSURANCE/QUALITY CONTROL

Quality control is a continual effort. H&H is committed to fostering the improvement of quality by generating a project-specific Quality Management Plan (QMP) for providing guidance to the project team. The objective of the QMP is to provide tools to the project team so that our professional services are performed and delivered in accordance with applicable industry standards of care and to the satisfaction of project scope requirements while remaining within the allocated schedule and budget. The QMP includes the H&H standard Quality Assurance and Quality Control Plans. Together these plans form our Quality Management System (QMS) which defines procedures to minimize errors, discrepancies, and omissions in our work products.

Our QMS is a living document that will be continually assessed and revised to reflect best practices and lessons learned. This process includes clarification of design information to support construction or production, correction, and prevention of errors and omissions, and response to client feedback.



19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Hardesty & Hanover, LLC	Other (Tunnel Inspection)	4400028222; H.011006.5 Task 1	IDIQ Contract for Tunnel Inspection Services	\$478,554
	Bridge	4400023511; H.009730.5 Task 2	Bridge Inspection of Complex Structures LADOTD Movable Bridge Inspection Manual	\$461,472
	Bridge	4400023511; H.009730.5 Task 5	Bridge Inspection of Complex Structures SNBI Data Collection	\$1,954,610
	CE&I/OV	4400017430; H.001498.6	LA 24 and LA 316: Company Canal Bridge, Terrebonne Parish	\$139,368
	Bridge	4400023909; H.002244.5 Task 2	IDIQ Contract for Movable Bridge Preservation Boudreaux Canal (Mechanical)	\$74,410
	Bridge	4400023909; H.015963.5 Task 4	IDIQ Contract for Movable Bridge Preservation Boudreaux Canal (Structural)	\$5,841
	Bridge	4400023909; H.015963.6 Task 5	IDIQ Contract for Movable Bridge Preservation Red River MB Ped Gates (Jackson St)	\$65,652
	Bridge	4400023909; H.002798.6 Task 6	IDIQ Contract for Movable Bridge Preservation Bayou Teche Bridge (Oaklawn) Arc-Flash	\$29,682
	CE&I/OV	4400024021; H.015028.6	LA 302: Bayou Barataria MB Replacement Route: LA 302	\$3,827,709
	CE&I/OV	4400024022; H.002264.6	LA 302: Bayou Barataria MB Replacement Route: LA 302, LA 47, and LA 3257	\$868,749
	Bridge	4400021516; H.011962; H.012063; H.013818; H.011986; H.012734	Contract 4 for Movable Bridges (5) – Original contract plus Supplemental Agreement (SA) No 1	\$1,662,201
	Bridge	4400021516; H.013818	Contract 4 for Movable Bridges (5) – SA No. 2	\$1,974,947
	Bridge	4400026585; H.006226.5	Point-a-la-Hatche Ferry Landing Replacement	\$2,062,225
	CE&I/OV	4400031700; H.016464	LA 23 Russell Dr to Hwy 11	\$818,091
Urban Systems, Inc.	Traffic	No. H011221.5, H.011222.5;	I-10: N.O. CBD3 (Poydras- Louisa) & I-10:N.O CBD4 (Louisa – I- 510)	\$20,483
	Traffic	No.4400024185, No.H.016046.5	US 190: Atchafalaya R @ K'Sprngs Repairs	\$5,946

	Traffic	No.4400026585, No. H.006226.5	Pointe-a-La-Hache Ferry Landing Replacement	\$5,000
SJB Group, LLC	Survey	Contract No. 4400017033 / S.P. No. H.005121.5 / F.A.P. No. H005121	LA 415 Connector - I10 to La 1	\$32,904
	Other(SUE)	Contract No. 4400017033 / S.P. No. H.005121.5 / F.A.P. No. H005121	SUE - LA 415 Connector - I10 to La 1	\$627,159
	Other(SUE)	Contract No. 4400027349 S.P. No. H.003931.6	I-10 Calcasieu Project P3	\$7,144,086
	Other – DBE Supportive Services	Contract No: 44-26952 S.P. No. N/A	LADOTD DBE Support Services	\$98,301
	Survey	Contract No. 44-28371 S.P. No. H.004100.5	I-10: LA 415 TO ESSEN	\$3,392
	CPM	Contract # 44-30226 S.P. H.014258.6	RCL - LA 1: Port Allen Canal Bridge Replacement (Phase 2) (HBI)(CE&I)	\$82,832
	CPM	Contract# 44-31862 S.P. Multiple	Contract For Consulting Services Critical Path Method (CPM) Analysis	\$316,272

20. Certifications/Licenses:**Secretary of State Documents**

COMMERCIAL DIVISION
225.925-4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
HARDESTY & HANOVER, LLC	Limited Liability Company (Non-Louisiana)	WILMINGTON	Active
Previous Names			
Business: HARDESTY & HANOVER, LLC			
Charter Number: 40880812Q			
Registration Date: 7/6/2012			
Domicile Address			
2711 CENTERVILLE ROAD, SUITE 400 WILMINGTON, DE 19806			
Mailing Address			
1501 BROADWAY, 6TH FLOOR NEW YORK, NY 10036			
Principal Business Office			
1501 BROADWAY, 6TH FLOOR NEW YORK, NY 10036			
Registered Office in Louisiana			
3850 N. CAUSEWAY BOULEVARD, SUITE 1625 METAIRIE, LA 70002			
Principal Business Establishment in Louisiana			
3850 N. CAUSEWAY BOULEVARD, SUITE 1625 METAIRIE, LA 70002			
Status			
Status: Active			
Annual Report Status: In Good Standing			
Qualified: 7/6/2012			
Last Report Filed: 6/10/2025			
Type: Limited Liability Company (Non-Louisiana)			
Registered Agent(s)			
Agent: DABAK WAGHANI			
Address 1: 3850 N. CAUSEWAY BOULEVARD, SUITE 1625			
City, State, Zip: METAIRIE, LA 70002			
Appointment Date: 6/1/2017			
Officer(s)			
Officer: SEAN BLUNE			
Title: Member			
Address 1: 1501 BROADWAY, 6TH FLOOR			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: NEW YORK, NY 10036			
Officer: PAUL SKELTON			
Title: Member			
Address 1: 1501 BROADWAY, 6TH FLOOR			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: NEW YORK, NY 10036			
Officer: KEITH GRIESING			
Title: Member			
Address 1: 1501 BROADWAY, 6TH FLOOR			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: NEW YORK, NY 10036			
Officer: GLEN SCHTELICH			
Title: Member			
Address 1: 5 MARINE VIEW PLAZA, SUITE 503			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: HOBOKEN, NJ 07030			
Officer: DAVID TUCKMAN			
Title: Member			
Address 1: 1501 BROADWAY, 6TH FLOOR			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: NEW YORK, NY 10036			
Officer: ROBERT DREW			
Title: Member			
Address 1: 1501 BROADWAY, 6TH FLOOR			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: NEW YORK, NY 10036			
Officer: SCOTT REYNOLDS			
Title: Member			
Address 1: 180 ADMIRAL COCHRANE DRIVE, SUITE 555			
Address 2: HARDESTY & HANOVER, LLC			
City, State, Zip: ANNAPOLIS, MD 21401			

Amendments on File (1)

Description	Date
Foreign LLC Statement of Change	6/1/2017

[Print](#)



COMMERCIAL DIVISION
225.925-4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
URBAN SYSTEMS ASSOCIATES, INC.	Business Corporation	NEW ORLEANS	Active
Previous Names			
Business: URBAN SYSTEMS ASSOCIATES, INC.			
Charter Number: 30812900			
Registration Date: 11/12/1974			
Domicile Address			
2000 TULANE AVENUE SUITE 200 NEW ORLEANS, LA 70112			
Mailing Address			
2000 TULANE AVENUE SUITE 200 NEW ORLEANS, LA 70112			
Principal Office Address			
2000 TULANE AVENUE SUITE 200 NEW ORLEANS, LA 70112			
Status			
Status: Active			
Annual Report Status: In Good Standing			
File Date: 11/12/1974			
Last Report Filed: 10/14/2025			
Type: Business Corporation			
Registered Agent(s)			
Agent: ALISON MICHEL			
Address 1: 2000 TULANE AVE			
Address 2: SUITE 200			
City, State, Zip: NEW ORLEANS, LA 70112			
Appointment Date: 12/31/2019			
Officer(s)			
Officer: ALISON C. MICHEL			
Title: President			
Address 1: 877 CHARLEPE STREET			
City, State, Zip: NEW ORLEANS, LA 70124			
Officer: NICOLE STEWART			
Title: Secretary, Vice President			
Address 1: 8454 REICHWOOD COURT			
City, State, Zip: NEW ORLEANS, LA 70127			
Amendments on File (12)			
Description	Date		
Revoked	5/13/1982		
Reinstatement	10/29/1986		
Disclosure of Ownership	2/24/1993		
Disclosure of Ownership	7/15/1994		
Disclosure of Ownership	5/21/1995		
Disclosure of Ownership	7/10/2002		
Appointing, Change, or Resign of Officer	4/18/2012		
Restated Articles	9/7/2012		
Domicile, Agent Change or Resign of Agent	10/15/2013		
Disclosure of Ownership	9/10/2014		
Restated Articles	1/16/2015		
Domicile, Agent Change or Resign of Agent	12/31/2019		

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State of
Louisiana
Secretary of
State



COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
SJB GROUP, L.L.C.	Limited Liability Company	BATON ROUGE	Active

Previous Names

Business: SJB GROUP, L.L.C.
Charter Number: 36063779K
Registration Date: 12/2/2005

Domicile Address

5344 BRITTANY DRIVE
BATON ROUGE, LA 70808

Mailing Address

C/O MATTHEW ESTOPINAL
5344 BRITTANY DRIVE
BATON ROUGE, LA 70808

Status

Status: Active
Annual Report Status: In Good Standing
File Date: 12/2/2005
Last Report Filed: 11/3/2025
Type: Limited Liability Company

Registered Agent(s)

Agent:	MATTHEW ESTOPINAL
Address 1:	5344 BRITTANY DRIVE
City, State, Zip:	BATON ROUGE, LA 70808
Appointment Date:	4/17/2023

Officer(s)

Additional Officers: No

Officer:	MATTHEW ESTOPINAL
Title:	Manager, Member
Address 1:	5344 BRITTANY DRIVE
City, State, Zip:	BATON ROUGE, LA 70808

Mergers (1)

Filed Date	Effective Date:	Type	Charter#	Chater Name	Role
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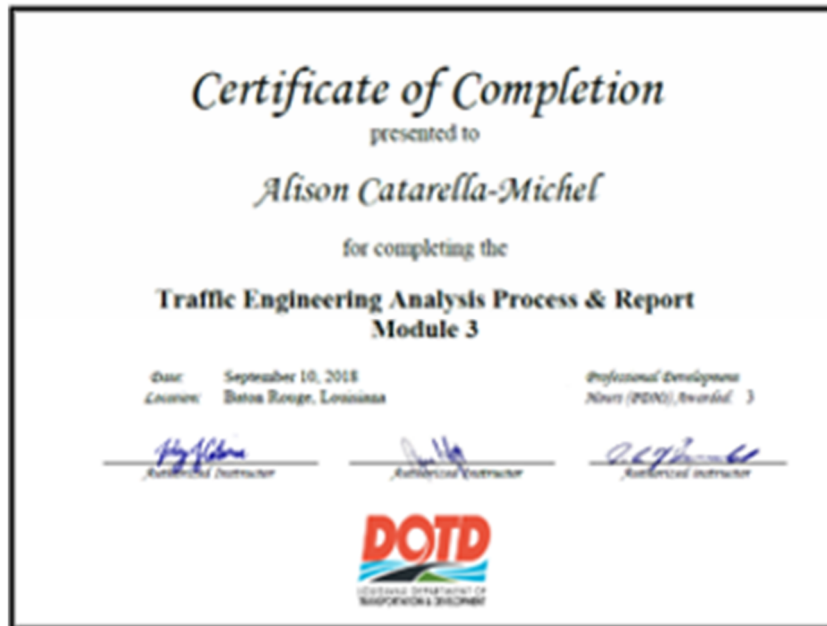
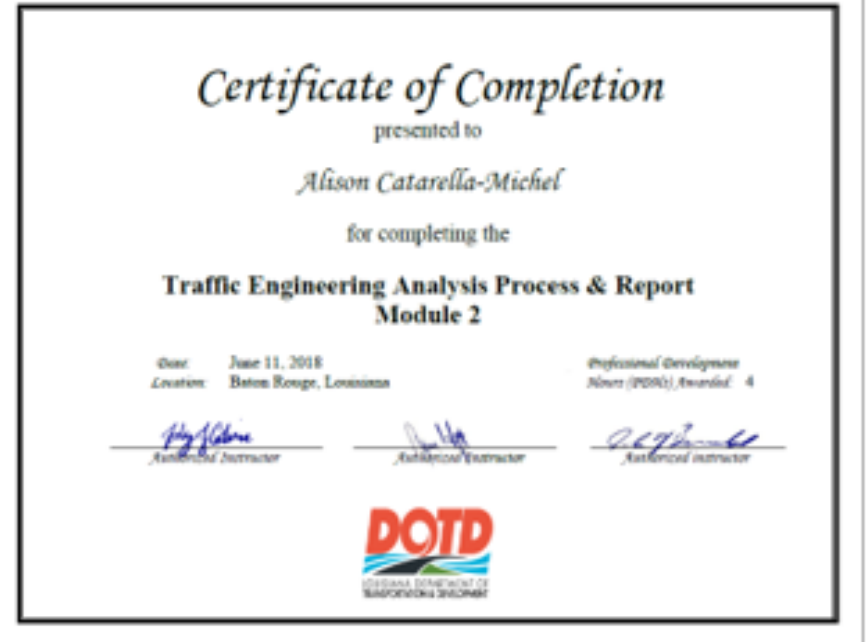
12/2/2005	12/2/2005	MERGE	36063779K	SJB GROUP, L.L.C.	SURVIVOR
			22203280D	SJB GROUP, INCORPORATED	NON-SURVIVOR

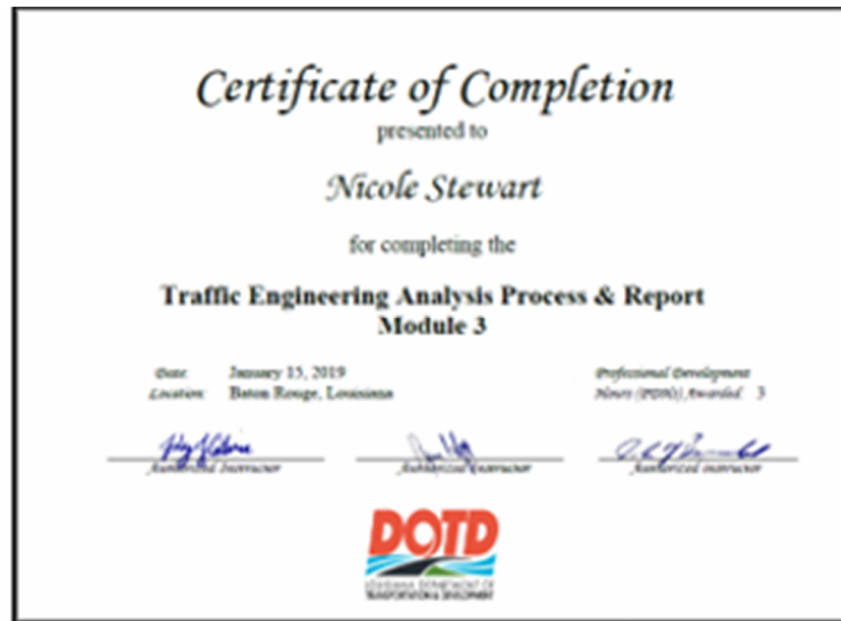
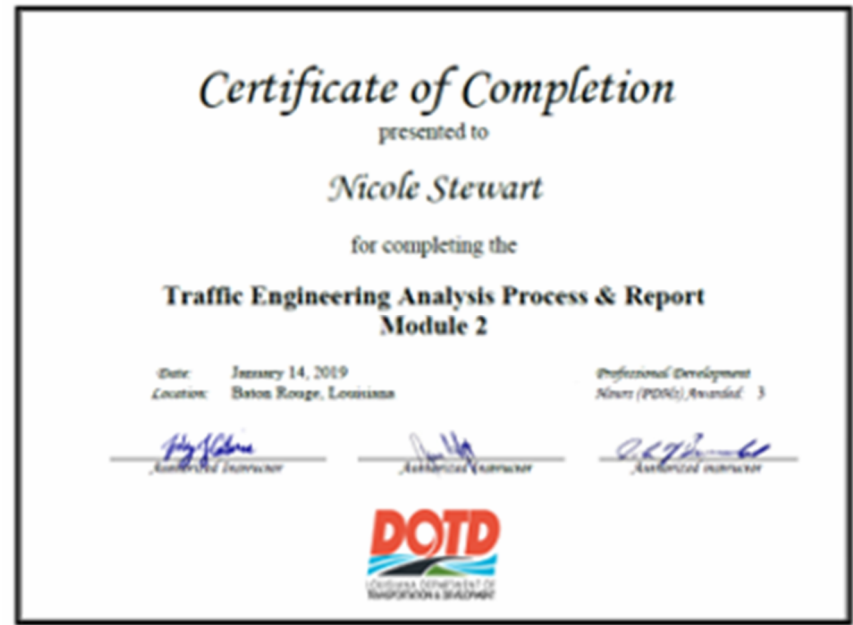
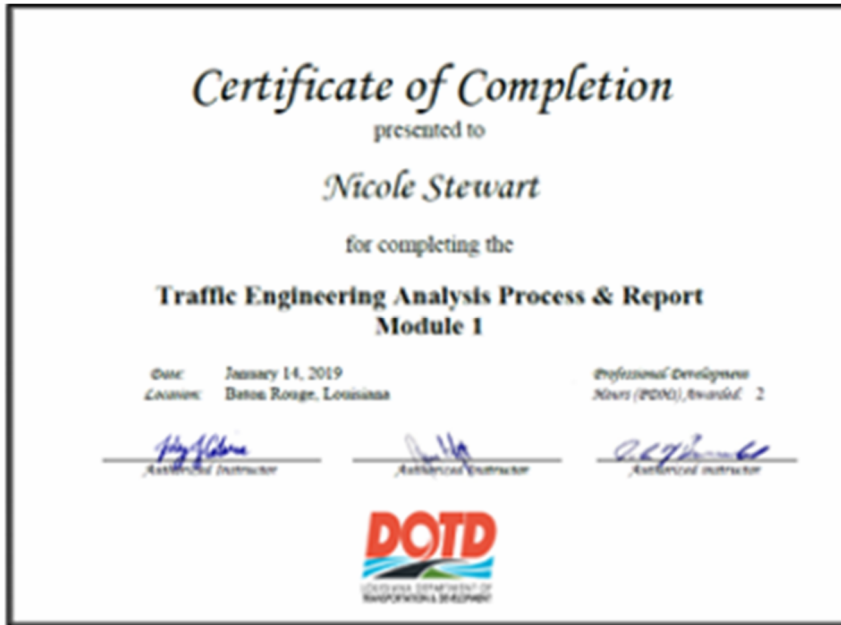
Amendments on File (9)

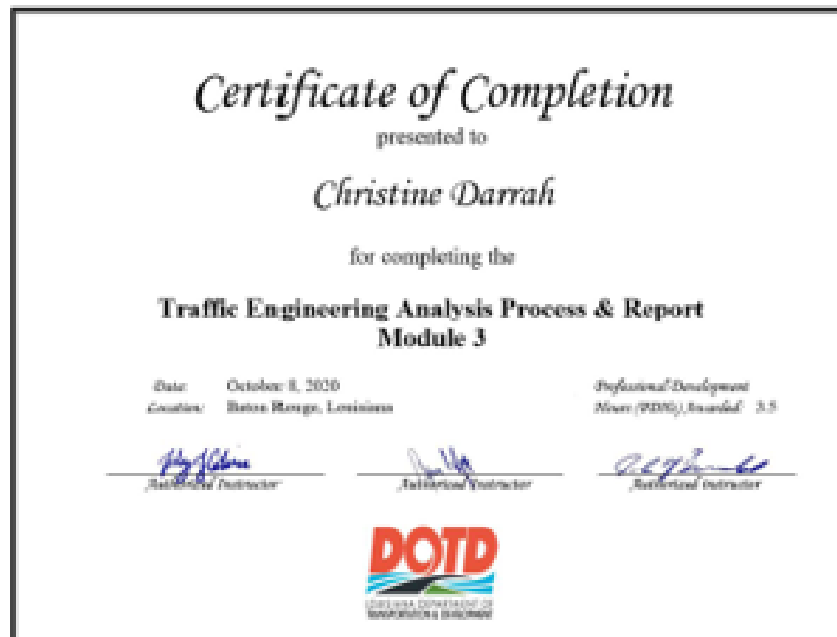
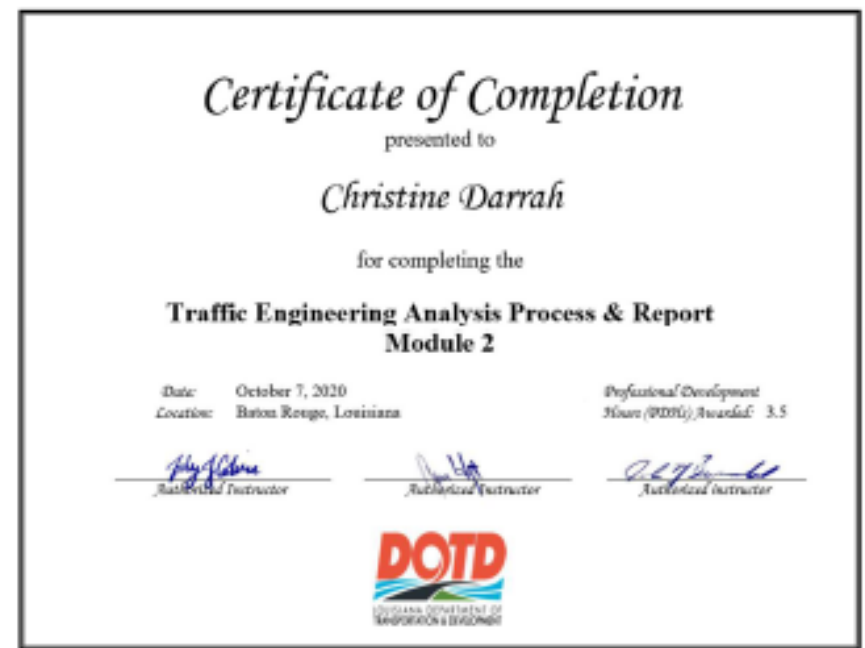
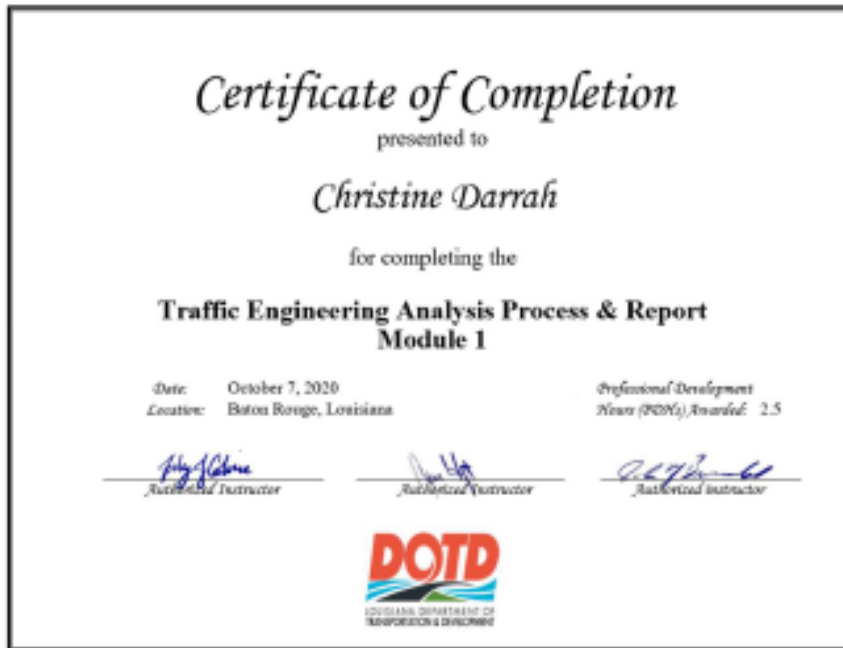
Description	Date
Merger	12/2/2005
Disclosure of Ownership	10/6/2006
Appointing, Change, or Resign of Officer	4/5/2011
Appointing, Change, or Resign of Officer	10/11/2016
Domestic LLC Agent/Domicile Change	5/5/2017
Appointing, Change, or Resign of Officer	3/8/2023
Domestic LLC Agent/Domicile Change	4/17/2023
Appointing, Change, or Resign of Officer	4/17/2023
Domestic LLC Agent/Domicile Change	8/15/2024

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Certifications









21. QA/QC Plan:

Our QA/QC Plan will be submitted within 10 days of contract award.

22. Sub-consultant information:

Firm Name (Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS): <u>including punctuation, include screenshot(s) from SOS at the end of Section 20</u>)	Address	Point of Contact and email address	Phone Number
Urban Systems, Inc	2000 Tulane Ave. Suite 200 New Orleans, LA 70112	Alison Catarella Michel acmichel@urbansystems.com	(504)569-3958
SJB Group, L.L.C.	5344 Brittany Dr, Baton Rouge, LA 70808	Matthew Estopinal Matt.Estopinal@sjbgroup.com	(225) 769-3400

23. Location:

N/A



3850 N. Causeway Blvd, Suite 1625
Metairie, LA 70002
T: 504.962.9212
la@hardestyhanover.com