LADOTD FORM: 24-102

(Revised September 17, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the LADOTD 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 LADOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE LADOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

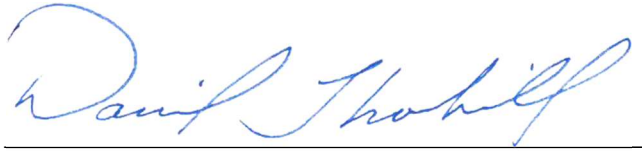
Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1.	Contract Name as shown in the advertisement	IDIQ CONTRACT FOR ROADWAY DESIGN SERVICES STATEWIDE WITH MAJORITY OF WORK IN DISTRICTS 03 & 07
2.	Contract number(s) as shown in the advertisement	4400030052
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	**MICHAEL BAKER INTERNATIONAL, INC.** Michael Baker INTERNATIONAL
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. 0000062** **V.F. 0000010**
6.	Prime consultant mailing address	**2600 CitiPlace Drive, Suite 450** **Baton Rouge, Louisiana 70808**
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	**Daniel Thornhill, PE** **Office Manager - Associate Vice President** **225-218-2846 | Daniel.Thornhill@mbakerintl.com**
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	**Daniel Thornhill, PE** **Office Manager - Associate Vice President** **225-218-2846 | Daniel.Thornhill@mbakerintl.com**

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

    Pursuant to Act 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.

Signature (shall be the same person as Section 9):



Date: 10/09/2024

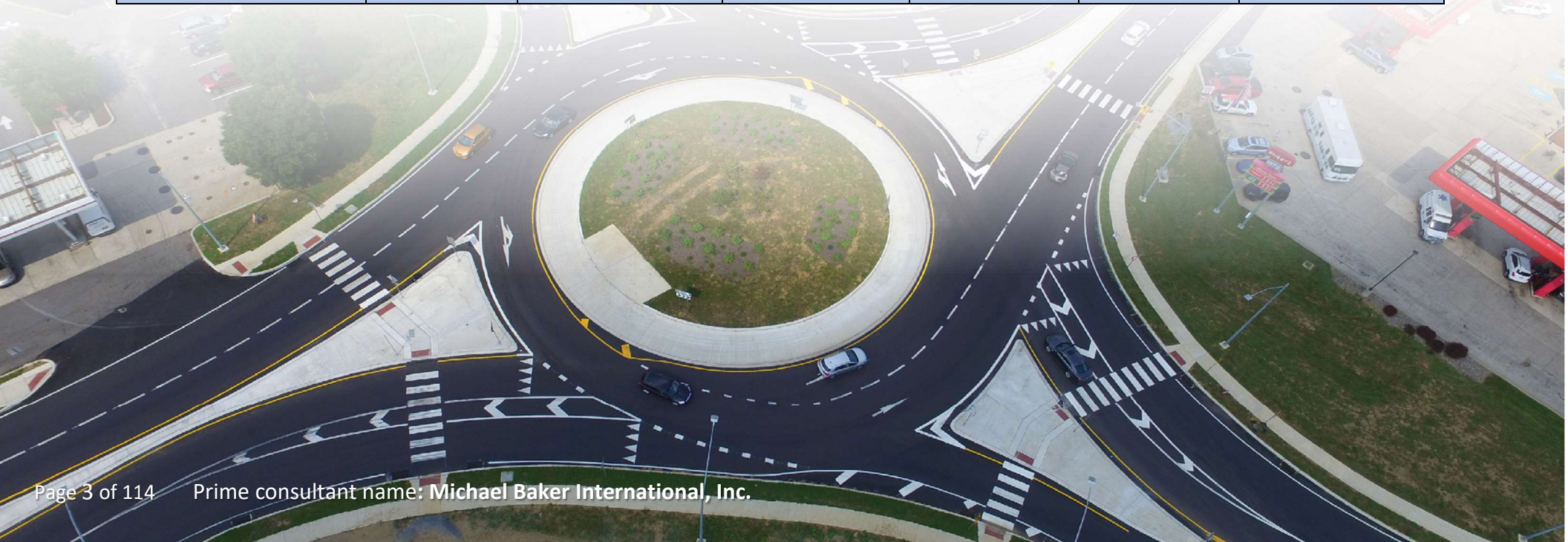
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s):	**Firm(s)' %: Goal 2%**
Vectura Consulting Services, LLC	**3.38%**

PROJECT BUDGET & SCHEDULE. Prioritizing what matters to the DOTD and local community, Michael Baker understands IDIQ contracts and offers a plan that addresses the DOTD concerns and needs by making our staff available to focus on designated task orders budgets and schedule.

12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE

Past Performance Evaluation Discipline(s)	% of Overall Contract	Michael Baker International, Inc.	Vectura Consulting Services, LLC	SJB Group, LLC	Gresham Smith	Each Discipline must total to 100%
Road	67.50%	78.00%	5.00%	0.00%	17.00%	**100%**
Bridge	15.00%	80.00%	0.00%	0.00%	20.00%	**100%**
Survey	10.00%	0.00%	0.00%	100.00%	0.00%	**100%**
Right-of-Way	5.00%	0.00%	0.00%	100.00%	0.00%	**100%**
Other (SUE)	1.50%	0.00%	0.00%	100.00%	0.00%	**100%**
Environmental	1.00%	100.00%	0.00%	0.00%	0.00%	**100%**
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	**100%**	**65.65%**	**3.38%**	**16.50%**	**14.47%**	**100.00%**



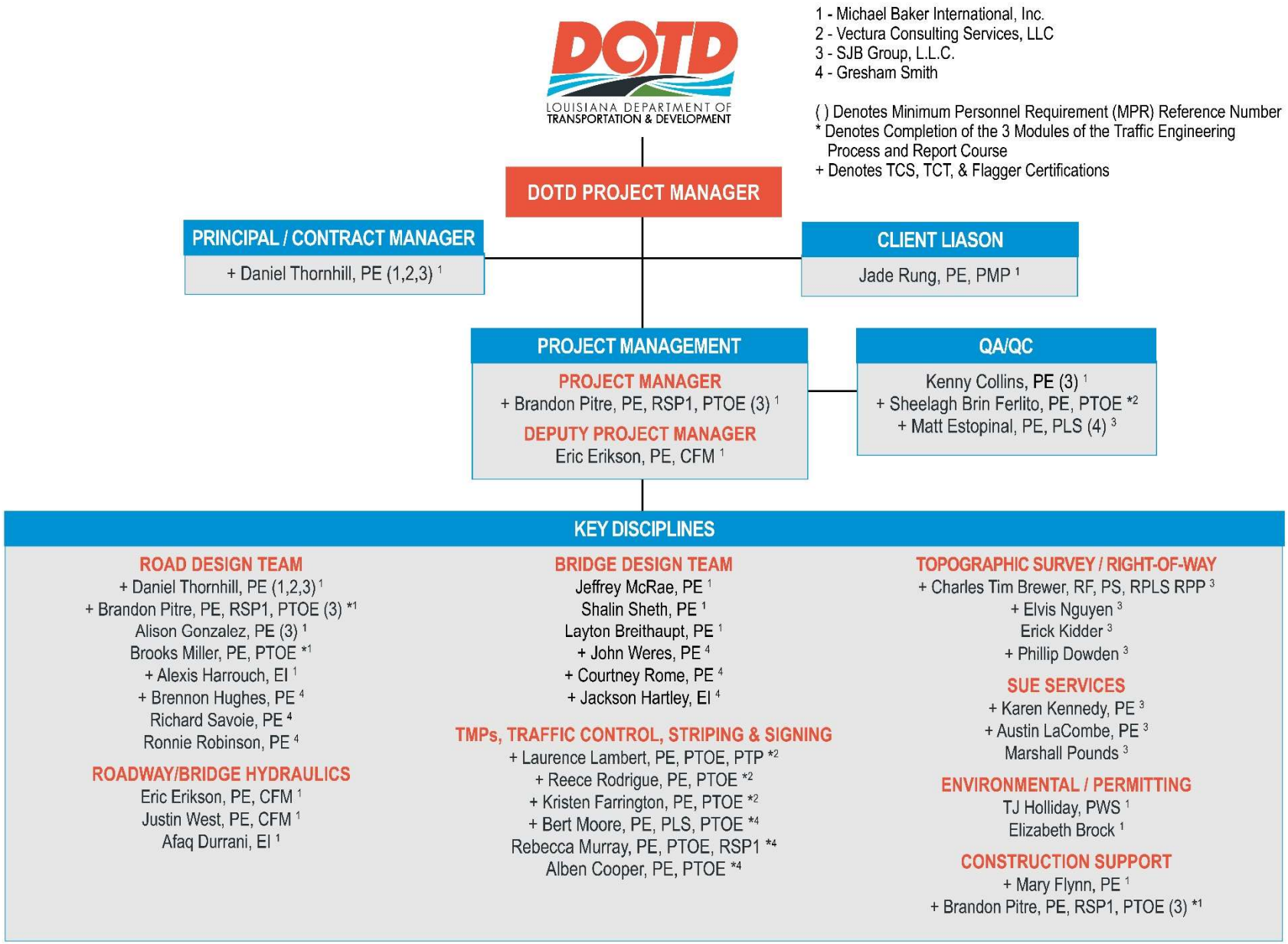
13. FIRM SIZE

Firm name	LADOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this LADOTD Job Classification (if needed)
Michael Baker INTERNATIONAL • DOTD IIJA OSBR District 07 Engineer • Designed New Barksdale Entrance Road Roundabout for Barksdale AFB that connects to recent I-20/I-220 Design Build. • Local and immediately available to start work • Staff experienced with DOTD Design Guidelines, Specifications and Standards, and EDSMs.	Clerical	1	2
	Biologist/Wetlands	1	3
	Engineer	2	5
	Engineering-Aide	1	2
	Engineer Intern	2	10
	Engineer - Other	0	10
	Environmental Pro	1	3
	GIS Analyst	0	2
	Principal	1	2
	Senior Technician	1	5
	Supervisor - Eng	1	3
	Technician	1	6
VECTURA CONSULTING SERVICES, LLC Vectura Consulting Services, LLC • Experience with over 30 roundabouts in Louisiana • Developed 4 Traffic Management Plans (TMP) for DOTD • Developed all Levels of TMPs • Five Professional Traffic Operations Engineers on Staff	Clerical	0	1
	Engineer	3	3
	Engineer Intern	0	2
	Senior Technician	0	2
	Supervisor - Eng	0	2
	Supervisor - Other	0	1
	Technician	0	1

Firm name	LADOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this LADOTD Job Classification (if needed)
SJB Group, LLC • Actively working on several MoveAscension, MoveBR, and DOTD projects in the Gulf Coast region. • Extensive past experience on DOTD projects. • Local and immediately available to start work Staff experienced with DOTD Design Guidelines, Specifications and Standards	Engineer	1	7
	Party Chief	1	6
	Senior Technician	1	8
	Supervisor - Eng	2	3
	Surveyor	3	3
Gresham Smith • Completed over 50 designs tasks over multiple IDIQ contacts over the past 8 years including work in all 10 districts. • Local and immediately available to start work • Staff includes a number of former LADOTD employees (HQ and Districts) who now as consultants have delivered numerous projects for LADOTD using the DOTD Design Guidelines, Specs, Standards and EDSMs.	Principal	1	1
	Engineer	2	4
	Engineer Intern	2	6
	Senior Technician	2	6
	Supervisor - Eng	2	6
	Clerical	1	1

RESOURCE AVAILABILITY. Our management team will identity the number of required resources based on task order scope. Our team has redundancy to handle multiple task orders. Our mission is to have the most qualified and number of personnel to expedite the schedule while minimizing impacts to the overall project budget.

14. ORGANIZATIONAL CHART



 Prime consultant name: **Michael Baker International, Inc.**

15. MINIMUM PERSONNEL REQUIREMENTS

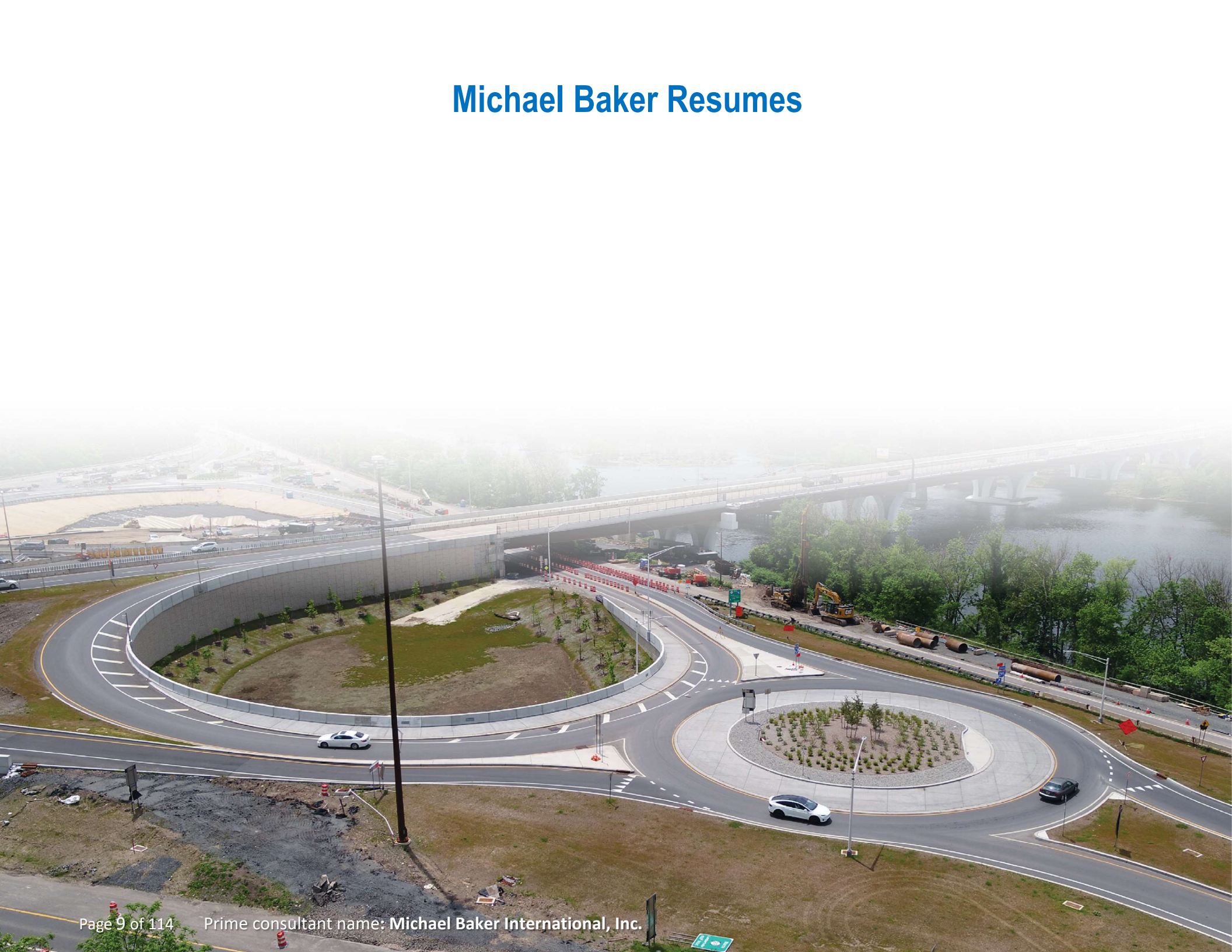
Led by Daniel Thornhill, PE, a Project Manager with over 25 years of roadway design experience, 19 serving the DOTD, Michael Baker and subconsultant staff designated to work on this contract meet the Minimum Personnel Requirements (MPRs) specified in the advertisement. Résumés included in this submission reflect the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/certification & number	State of license	License / certification expiration date
1	**Daniel Thornhill, PE**	Michael Baker INTERNATIONAL	Professional Engineer Registered in the State of Louisiana/ Civil Engineering/ PE.0032367	Louisiana	09-30-2026
2	**Daniel Thornhill, PE**	Michael Baker INTERNATIONAL	Professional Engineer Registered in the State of Louisiana / Civil Engineering/ PE.0032367	Louisiana	09-30-2026
3	**Daniel Thornhill, PE**	Michael Baker INTERNATIONAL	Professional Engineer Registered in the State of Louisiana / Civil Engineering/ PE.0032367	Louisiana	09-30-2026
	Alison Gonzalez, PE		Professional Engineer Registered in the State of Louisiana / Civil Engineering/ PE.0047215	Louisiana	03-31-2025
	Brandon Pitre, PE, PTOE, RSP1		Professional Engineer Registered in the State of Louisiana / Civil Engineering/ PE.0040975	Louisiana	03-31-2025
	Kenny Collins, PE		Professional Engineer Registered in the State of Louisiana / Civil Engineering/ PE.0033109	Louisiana	09-30-2025
4	**Matthew Estopinal, PE, PLS**	SJBGroup	Professional Engineer Registered in the State of Louisiana / Civil Engineering/ PE.0039151	Louisiana	03-31-2025
			Professional Land Surveyor in the State of Louisiana / Land Surveyor/ PLS.004955		03-31-2025

16. STAFF EXPERIENCE

Résumés are provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Certificates required by the advertisement are included in Section 20.

Michael Baker Resumes



 Prime consultant name: **Michael Baker International, Inc.**

Firm employed by **Michael Baker**			
Name	**Daniel Thornhill, PE**	Years of relevant experience with this employer	➲ **4**
Title	Office Executive	Years of relevant experience with other employer(s)	➲ **23**
Degree(s) / Years / Specialization		B.S. / 1997 / Civil Engineering	
Active registration number / state / expiration date		PE.0032367 / LA / 09-30-2026 Traffic Control Technician-LA State Specific / April 2026 Traffic Control Supervisor -LA State Specific / April 2026	
Year registered	2006 | 2002	Discipline	Civil
Contract role(s) / brief description of responsibilities		**MPR 1, 2, & 3. PRINCIPAL IN CHARGE/CONTRACT MANAGER**	

MPR 1, 2, & 3. Mr. Thornhill will serve as the Principal-In-Charge and Project Manager and provide support to Lead Design Engineer, Brandon Pitre, PE, to complete Design services, and provide accountability for quality and timeliness. He will also ensure priorities are established before and during execution of the project.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/21 - Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana.** Principal/Project Manager**.** Responsible for the design and development of construction plans for the replacement of 3 bridges at two locations along US 371. First location is the replacement of a 3 span bridge over KCS Railroad in Sibley, LA. Project entails the development of new bridge alignment following DOTD and KCS Railroad requirements along with modifications of the existing road to accommodate the new bridge vertical alignment. Additional site requirements include developing a detour road/bridge alignment to construct the new bridge under traffic along with reconstruction of LA 164/US 371 intersection. Second location is the replacement of parallel bridges along US 371 at the Minden/I-20 interchange. Bridges will be replaced in phase construction to maintain traffic. Two new 3-span bridges will be construction over KCS railroad meeting all the required DOTD and KCS design requirements as required at the Sibley bridge site.
08/22 – 05/23	**Barksdale AFB Entrance Roads, Bossier Parish, Louisiana.** Project Manager. Responsible for the development of construction plans for new entrance roads for Barksdale AFB. The project includes a new roundabout at the Air Force Base gates along with new 4-lane divided highway to tie into the new LA 1267 highway constructed by DOTD under the I-20/I-220 Design Build interchange improvements. Additional responsibilities include coordination with the DOTD I-20/I-220 Project Manager and Design Build Owner Verification Managers along with overseeing new roadway drainage that meets DOTD Hydraulic requirements. Construction should begin in Summer of 2023.
10/22 - Ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program – District 07, Louisiana. DOTD**. Principal. Responsible for the oversight of 12 Off-System Bridge replacements and recommendation of final bridge structures for five parishes in District 07. Additional responsibilities include the oversight of sub-consultants identified to be included in the program. This project program requires Michael Baker to deliver 12 bridge replacements within the $30.3 million dollars with allocated for District 07. This service includes topo surveys, row mapping, development of construction plans, environmental clearance, utility relocation agreements, and determine row acquisition. DOTD issued NTP for additional services in May 2023.
04/22 - Ongoing	**LA 30: EBR PL – I-10, East Baton Rouge, Iberville, and Ascension Parishes, Louisiana.** Principal/Project Manager. Responsible for the oversight of the Environmental Assessment (EA) of the widening of LA 30 from a 2-lane roadway to 4-lane roadway. Project is currently in Part 1 of the EA which main focus on traffic count/study/analysis along with some early environmental field screening, initial geometric improvements at existing 5 intersections, SUE services, and development of existing hydraulic flows for existing 6 bridge/culvert structures. Additional responsibilities include oversight of existing alignments along with existing right-of-way lines.

10/21 - Ongoing	**New Orleans Rail Gateway Environmental Impact Statement, Jefferson and Orleans Parishes, Louisiana. DOTD.** Project Engineer for development of alignment alternatives in Avondale area. Alternatives include railroad overpasses at two locations to replace four at grade railroad crossings. Currently trains will block at grade railroad crossings for hours each day at the Avondale railyard. New overpasses meet both DOTD and railroad criteria. New alternatives include both roadway and bridge design.
05/16 – 01/18	**Ham Reid Road at Lake Street (LA 3092) Intersection Improvement Project for Calcasieu Parish Police Jury**. Project Manager/Lead Design Engineer. Responsibilities included the development of construction plans for a new single lane roundabout at the intersection of Ham Reid Road and Lake Street (LA 3092). Project was studied as both a new signal and roundabout to provide traffic flow for land being developed along the southwest quadrant of the project. Through coordination with LA DOTD, it was determined a new single lane roundabout was the best alternative. The new roundabout would be a 4-leg roundabout that would connect to Spanish Mission Trail roadway of Trails Subdivision with one of roundabout legs to provide seamless connectivity with Ham Reid Road to eliminate a possible Z-intersection configuration with only a 3-leg roundabout. Mr. Thornhill's responsibilities included coordination with both Calcasieu Parish Project Manager, LA DOTD District 7 Engineers, and LA DOTD Project Permit Specialist; development of geometric layouts both horizontally and vertically, development of right-of-way taking lines and coordination of right-of-way maps with surveyor, and hydraulic analysis for both subsurface and storm water flow. Project was being done as a permit project for Calcasieu Parish through LA DOTD District 7.
03/14 - 08/15	**I-12 Entrance Ramp at Millerville Road, East Baton Rouge Parish, Louisiana.** Project Manager/Engineer**.** Responsible for the design and construction of a new westbound entrance ramp from Millerville Road to I-12. Project included widening of Millerville Road to accommodate new double left turn lanes at new intersection at new development. Project included developing construction plans to meet LADOTD and FHWA design guidelines and standards. Addition construction plan details involved development of traffic control plans for a lane shift of three (3) lanes along I-12 to provide protection for construction workers while the new entrance ramps were being constructed along with addition of new traffic signals and remove of an existing traffic signal. Project was issued a project permit through LADOTD District 61. During the plan preparation and construction, Mr. Thornhill met with LADOTD District 61 District Administrator and Construction Engineer to make sure all LADOTD standards where being followed along with making sure the contractor was meeting all the requirements set forth by LADOTD District 61 in the project permit.
09/14 – 08/15	**LA 27 turn lane improvements, Cameron and Calcasieu, LA.** Project Manager. Responsible for overseeing the development of roadway construction plans adhering to DOTD design guidelines for three turn lanes along LA 27 at the Cameron LGN plant entrances. Additional responsibilities included providing engineering support during construction. Project included the modification of the existing box culvert at Crab Gully with developing solutions to utility conflicts at this crossing.
11/15 – 01/18	**Southcity Parkway Extension - Lafayette, LA**. Project Manager/Lead Design Engineer. Responsibilities included the development of construction plans for a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. Project included three multilane roundabout intersections and new bridge crossing of the Vermillion River. Additional responsibilities included coordination with the Coast Guard to develop the new Vermillion Bridge crossing to make sure it met navigational vertical clearances. Project included development of public involvement meeting maps to get feedback from the local residents on the new alignments and its possible impacts to the neighboring communities.
08/12 - 01/18	**Juban Road (LA 1026) Widening (I-12 to US 190), Livingston Parish, Louisiana.** Project Manager/Lead Design Engineer. Responsible for the development of construction plans for the widening of Juban Road from a 2-lane roadway to a 4-lane boulevard from just north of the I-12 Interchange to US 190. Improvements included three (3) multi-lane roundabouts along Juban Road while including sidepaths on both sides of Juban Road to meet the LADOTD complete streets initiative. Access Management was a priority along this route therefore the median was reduced to 6' to 8' to discourage left turn movements and make all driveways right-in/right-out while utilizing the roundabouts for U-turn movements. The roundabouts are located at future driveway number 5 for the Juban Crossing Development, midway along project, and at the Juban Road at US 190 intersection. The roundabout would replace an existing signal that causes traffic congestion especially during peak afternoon traffic. Project included all necessary improvements along US 190 for the new roundabout and additional turn lane for the new Sanctuary Development.

Firm employed by **Michael Baker**				
Name	**Brandon Pitre, PE**		Years of relevant experience with this employer	➲ 3
Title	Transportation Engineer		Years of relevant experience with other employer(s)	➲ 7
Degree(s) / Years / Specialization			MS / 2012 / Civil Engineering BS / 2010 / Civil Engineering	
Active registration number / state / expiration date			PE.0040975 / Louisiana / 03-31-2025 ATSSA Traffic Control Supervisor, expires 04-29-2026 ATSSA Traffic Control Flagger, expires 01-17-2024	
Year registered	2016	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**MPR 3. PROJECT MANAGER/ROADWAY DESIGNER**	

Mr. Pitre meets MPR3 and will serve as Lead Design Engineer with experience in planning and geometric design for a variety of projects. He has worked in the public sector at the Louisiana Department of Transportation and Development in the Construction and Road Design sections before working as an engineering consultant. He has experience with safety retainers on both design and construction sides.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/21 - Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana. LADOTD.** Transportation Engineer/Project Manager. Mr. Pitre is the project manager of the project while also serving as the roadway design lead for the project who will oversee the delivery of the Preliminary and Final roadway and bridge design plans. The project consists of the design and replacement of three bridges which cross over a KCS railroad line at two different locations in Webster Parish (Sibley and Minden). The new bridges will be concrete girder-type and includes widening the two existing bridges in Minden to accommodate an additional travel lane for each bridge. A detour bridge will also be included for the Sibley location. Strict adherence to the KCS railroad design guidelines as well as adequate coordination with KCS will have to be maintained during all phases of design.
08/22 – 05/23	**Barksdale AFB Entrance Road and Gate Complex, Design-Build, Bossier Parish, Louisiana.** Transportation Engineer. Mr. Pitre is responsible for the roadway design and construction plan development of this project. The project consists of the design and construction of an extension of an existing state-owned highway, LA 1267, along with a new multi-lane roundabout. The new roadway will be a 4-lane divided highway entrance into the Barksdale AFB. Mr. Pitre is mainly responsible for the development of the 3D roadway design model for the project as well as overseeing the delivery of the construction plans.
04/22 - Ongoing	**LA 30: EBR P/L – I-10, Iberville and Ascension Parishes, Louisiana. LADOTD.** Transportation Engineer/Project Manager. Mr. Pitre is the project manager of the project while also serving as the lead roadway design engineer for the project. The project is an environmental assessment (EA) which consists of widening approximately 14 miles of LA 30 from two lanes to at least four lanes. Mr. Pitre is responsible for generating the line-and-grade diagrams to evaluate the reasonable alternatives based on the traffic analysis and recommended improvements to the major intersections along the project limits.
10/22 - Ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program – District 07, Louisiana. DOTD**. Project Manager. Responsible for the development of construction plans for 12 Off-System Bridge replacement locations for the five parishes in District 07. Additional responsibilities include the coordination with sub-consultants for the services of topographic surveys, row mapping, geotechnical investigations, and hydraulic support. This project program requires Michael Baker to deliver 12 bridge replacements within the $30.3 million dollars with allocated for District 07. DOTD issued NTP for additional services in May 2023
08/19 – 12/19	**Alphonse Forbes Road Bridge Replacement, Central, Louisiana. East Baton Rouge Parish, Louisiana.** Transportation Engineer. Mr. Pitre assisted on this project by collecting relevant design data, as-built drawings, and similar go-by project drawings and documents. He was responsible for compiling preliminary hydraulics study reports, assembling roadway design standards, performing QC/QA reviews of roadway drawings and other project deliverables, and generating a preliminary construction cost estimate.

06/18 – 12/19	**US 90 Ramps at LA 88 Roundabouts, New Iberia, Louisiana / Highway Safety Design Retainer, LADOTD.** Lead Roadway Designer. Mr. Pitre served as lead Roadway Design Engineer for this project whose scope consisted of converting the eastbound and westbound U.S. 90 ramp terminals into two multi-lane roundabouts, along with making improvements to the existing drainage network (sub-surface and open ditch) to increase hydraulic capacity. Since the local project representatives expressed concerns for design solutions aimed at reducing flooding during intense rain events, many of the existing cross drains, side drains, and existing roadside ditches needed to be upsized. Other safety measures were implemented in this project by the following measures: safety end treatments on culvert ends adjacent to LA 88, guard rail improvements based on the latest DOTD design standards, flexible traffic delineators separating lanes of opposing traffic flow, and two U-turns (bulb-outs) added along LA 88 on each side of U.S. 90. Responsible for roadway design and construction plan production, completing the 100% Preliminary Plans based on comments from the client at the Plan-In-Hand meeting. This involved resolution of all the client's comments from the 100% Preliminary Plans submittal which involved items such as: modifying the typical pavement sections and details, adjusting the roadside ditch geometry, revising the construction sequencing layout, modifying the drainage design, and creating the permanent signing and pavement marking layout sheets. Responsible for developing and delivering the 100% Final Plans as the Engineer of Record which involved determining the required quantities of the required construction items and developing the accompanying construction cost estimate. Other work for this project included creating the existing and proposed drainage maps, hydraulics calculations utilizing DOTD's HYDRWIN program and preparation of the hydraulics report.
12/17 – 07/18	**U.S. 190B at Jefferson Avenue Roundabout Design for Highway Safety Design Retainer, Covington, Louisiana. LADOTD.** Roadway Design Engineer. Responsible for design and construction plan production for this project, whose scope consisted of converting a four-way intersection into a single-lane roundabout in downtown Covington in an area of narrow right-of-way limits. Responsible for completing 100% Preliminary Plans based on comments from the client (DOTD) at the Plan-In-Hand meeting. This involved making several changes to the plans such as: revisions to the typical pavement section and details, plan and profile sheets, and construction sequencing sheets. Responsible for developing the 60% Final Plans which involved resolution of all the client's comments from the 100% Preliminary Plan submittal, determining the required construction items, and developing the accompanying construction cost estimate. Other work included hydraulics calculations utilizing DOTD's HYDRWIN drainage program and preparation of the hydraulics report. During the 60% Final Plans development stage, this project was halted by DOTD based on the significant real estate cost for acquisition of an adjacent property (gas station on intersection corner).
11/15 - 06/17	**Francis Road Extension, Covington, Louisiana. St. Tammany Parish Government.** Transportation Engineer. Assisted in design and construction plan production of a two-lane asphalt roadway extension project to better serve local community by providing better connectivity between the local subdivisions and a recreational facility. Responsible for conducting drainage analysis to compare pre- and post-development drainage design and to determine required culvert sizing for new, required cross drain, as well as nearby roadside drainage structures. Mr. Pitre's other responsibilities included assembling construction plans for the client, which highlighted the different roadway alignment alternatives. These options were presented to give the client an idea of what the impact financially and logistically would be.
10/16 – 01/17	**I-12 Widening, LA 21 to US 190, Covington, Louisiana. Louisiana Department of Transportation**. Transportation Engineer. Created typical section sheets for an interstate widening project. Performed hydraulic analysis to check adequacy of existing cross drains and created existing and design drainage maps.

Firm employed by **Michael Baker**				
Name	**L.R. "Eric" Erikson, PE, CFM**		Years of relevant experience with this employer	➲ **<1**
Title	Department Manager – Water Resources		Years of relevant experience with other employer(s)	➲ **24**
Degree(s) / Years / Specialization			M.S. / 2003 / Engineering and Technology Management B.S. / 1999 / Civil Engineering	
Active registration number / state / expiration date			PE.0031061 / Louisiana / 03/31/2026 CFM US-23-12645 / 07/31/2025	
Year registered	2004 2023 (CFM)	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**DEPUTY PROJECT MANAGER/HYDRAULICS DESIGN LEAD**	

Mr. Erikson will serve a technical advisor to the hydraulics/drainage team for task orders requiring drainage analysis and design. He will also support the team if hydraulic modeling is required for the replacement/modification of drainage structures.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/23 – Ongoing	**LA 30: EBR PL – I-10, Ascension, Iberville, and East Baton Rouge Parishes, Louisiana | DOTD** - Mr. Erikson is currently serving as the Hydraulics QA/QC Reviewer for the NEPA study for the widening of LA 30. Project is currently in the Part 1 phase of the study to determine the required widening requirements of LA 30 from the East Baton Rouge Parish Line to I-10. Project covers nearly 14 miles of improvements along LA 30 through Iberville and Ascension Parish. The study will determine how many additional lanes necessary for LA 30 along this stretch with intersection improvements at Bayou Paul Lane, LA 74, LA 3115, LA 73, and LA 3251. Additional responsibilities for Mr. Erikson include determining if the drainage areas have been delineated properly and that the storm water runoff flows meet DOTD requirements along with reviewing the HEC-RAS models for consistency and conformity to the DOTD Hydraulics Manual.
01/23 – Ongoing	**US 371 KCS RR Overpass HBI, Louisiana | DOTD**. QA/QC Engineer. Responsible for providing guidance, review, and Quality Control for the drainage design of the new improvements of US 371 for the replacement of 3 bridges at 2 different locations: (Sibley, LA and Minden, LA). The bridges are being replaced of KCS railroad at both locations. The Sibley, LA site consists of a new bridge alignment offset from the existing to allow traffic to remain open during construction. The bridges at the Minden site bridges are being replaced in multiple traffic control operations where 1 bridge will remain open while a new bridge is being built. Once new bridge is built, traffic will move over to new bridge while the other bridge is being replaced. Mr. Erikson's QA/QC review will make sure drainage is being done in accordance to DOTD Hydraulic Manual..
01/23 – Ongoing	**Airline Highway (US 61) – North for MOVEBR, East Baton Rouge Parish, Louisiana | City/Parish of Baton Rouge**. Project Manager. Responsible for the review and analysis of major drainage crossings along Airline Highway between I-110 to US 190/US 61. Project is currently in the NEPA Decision making process. Addition responsibilities include reviewing existing models provided by MOVEBR for Jones Creek Crossing and Hurricane Creek crossings. NEPA Hydraulics phase is a low-level look at drainage improvements for the widening of Airline Highway from a 4-lane divided roadway to a 6-lane divided roadway. Once the NEPA process is complete, engineers will be released to develop construction plans. Mr. Erikson will oversee the development of the roadway drainage for the improvements. Project is currently following the DOTD guidelines for NEPA clearance.
01/23 - Ongoing	**Louisiana Watershed Initiative (LWI) Region 6 TO 2, Louisiana | DOTD.** Deputy Project Manager. Responsible for providing contract administration and assisting project manager in general project management duties such as resource allocation, scheduling, coordination of

	team members, and financial analysis. Michael Baker supplemented data collection and analysis, continued stakeholder engagement services, and performed topographic, bathymetric, and channel surveys. This task includes 2 HUC8 Watershed models.
01/23 - Ongoing	Louisiana Watershed Initiative (LWI) Region 6 TO 3 | Louisiana. DOTD. Deputy Project Manager. Responsible for the contract administration and assisting the project manager with general project management duties such as resource allocation, scheduling, team coordination, and financial analysis. Michael Baker is providing engineering and modeling services to the Louisiana Department of Transportation & Development (DOTD) for Region 6 for the Louisiana Watershed Initiative (LWI). This task includes 2 HUC8 Watershed models.
01/23 - Ongoing	**Louisiana Watershed Initiative (LWI) Region 1, Louisiana | DOTD.** Deputy Project Manager. Responsible for the contract administration and assisting the project manager in general project management duties such as resource allocation, scheduling, team coordination, and financial analysis. This task includes 3 HUC8 Watershed models.
01/23 - Ongoing	**Louisiana Watershed Initiative (LWI) Region 4, Louisiana | DOTD**. Deputy Project Manager. Responsible for contract administration and assisting the project manager with general project management duties such as resource allocation, scheduling, team coordination, and financial analysis. This task include 1 HUC8 Watershed models.
01/23 - Ongoing	**LWI/SPP Group 1 Beauregard, Vernon and St. Landry Parishes, Louisiana | DOTD**. Project Manager. Responsible for the overall execution of the project, contract administration, and general project management duties, which include resource allocation, team coordination, sub-consultant coordination, scheduling, and financial analysis. Project will determine improvements to the watershed and reservoirs located within to mitigate flooding in the region.
01/23 - Ongoing	**Parish Comprehensive Drainage Plan, St. Tammany Parish, Louisiana | St. Tammany Parish**. Deputy Project Manager. Responsible for contract administration and assisting with general project management duties, such as resource allocation, team coordination, scheduling, and financial analysis. Attending public outreach meetings and assisted the public in understanding the project objective and goals. Provided review and QC of the Phase 1 final report.
1/20 – 12/22	**South Choctaw Widening, Baton Rouge, Louisiana | City. Parish of East Baton Rouge DPW**. QA/QC. Responsibilities included oversight of entire construction plan set, including geometric design and drainage design. Reviewed DOTD HYDRWIN input and output files to make sure the design team was following DOTD Hydraulics Manual and design requirements. Also responsible for assisting the designer in addressing drainage comments from the municipality.

Firm employed by **Michael Baker**			
Name	**Alison Gonzalez, PE**	Years of relevant experience with this employer	➲ **3**
Title	Project Manager	Years of relevant experience with other employer(s)	➲ **15**
Degree(s) / Years / Specialization		B.S. / 2007 / Civil Engineering	
Active registration number / state / expiration date		PE.0047215 / LA / 03-31-2025 PE037086 / GA / 12-31-2023	
Year registered	2022 | 2012	Discipline	Civil
Contract role(s) / brief description of responsibilities		**MPR 3. TRANSPORTATION/ROADWAY DESIGNER**	

Ms. Gonzalez meets MPR3 and will serve as a Design Engineer with experience in geometric design for a variety of projects. She has worked on projects for multiple DOT agencies which allows her to bring a practical engineering point of view to the team.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/23 - Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana.** Project Engineer**.** Responsible for the design and development of construction plans for the replacement of 3 bridges at two locations along US 371. First location is the replacement of a 3 span bridge over KCS Railroad in Sibley, LA. Project entails the development of new bridge alignment following DOTD and KCS Railroad requirements along with modifications of the existing road to accommodate the new bridge vertical alignment. Additional site requirements include developing a detour road/bridge alignment to construct the new bridge under traffic along with reconstruction of LA 164/US 371 intersection. Second location is the replacement of parallel bridges along US 371 at the Minden/I-20 interchange. Bridges will be replaced in phase construction to maintain traffic. Two new 3-span bridges will be construction over KCS railroad meeting all the required DOTD and KCS design requirements as required at the Sibley bridge site.
05/23 - Ongoing	**LA 30: EBR PL – I-10, East Baton Rouge, Iberville, and Ascension Parishes, Louisiana.** Project Engineer. Responsible for the oversight of the Environmental Assessment (EA) of the widening of LA 30 from a 2-lane roadway to 4-lane roadway. Project is currently in Part 1 of the EA which main focus on traffic count/study/analysis along with some early environmental field screening, initial geometric improvements at existing 5 intersections, SUE services, and development of existing hydraulic flows for existing 6 bridge/culvert structures. Additional responsibilities include oversight of existing alignments along with existing right-of-way lines.
12/21 – Ongoing	**SR 25 @ Savannah & Middle River. Scott Bridge Company, Inc.** Lead Roadway Engineer. Responsible for preparing all roadway submittals as required by the Design Build Agreement (DBA), including preliminary plans, final plans, release for construction (RFC) plans, and NPDES permitting plans. Michael Baker provided the Design-Build Services to replace two bridges along SR 25, one over the Savannah River (James P. Houlihan Bridge) and one over Middle River. Traffic will be maintained on the existing bridges while the proposed bridges are constructed parallel to the existing bridges. A Section 4(f) evaluation is required for impacts to historic resources and public recreational land, along with consultations with USFWS and NOAA fisheries due to the presence of federally protected aquatic species.
04/20 - Ongoing	**Sea Island Road @ Dunbar Creek. Georgia Department of Transportation.** Lead Roadway Engineer. Responsible for concept design and report development, preliminary plans, right-of-way plans, and final plans for the replacement of an existing bridge located on CR 583/Sea Island Road over Dunbar Creek on St. Simons Island. The proposed bridge will be raised one foot to meet the 100-year flood elevation. An onsite detour will be utilized by constructing a temporary bridge to the north of the existing bridge where traffic will be routed during construction. The roadway approaches were reconstructed to provide two 12-foot lanes with 8-foot rural shoulders.

01/18 – Ongoing	**I-16/I-95 General Engineering Consultant Services, Savannah, Georgia. Georgia Department of Transportation**. Subject Matter Expert. Responsible for reviewing roadway plans and design calculations to ensure that the design is in compliance with the Design-Build Agreement (DBA). Michael Baker is providing owner's representative post-let general engineering consultant services on the I-16 at I-95 interchange improvements and I-16 widening, as part of GDOT's MMIP program. Services include final design review, submittal review, and owner's verification of design-builder-provided construction engineering and inspection services.
09/17 – 04/23	**Bridge Bundle - SR 10 Loop EB & WB at Middle Oconee River (PI#0013715), SR 82 at Middle Oconee River (PI#0013819), Clarke and Barrow Counties, Georgia. Georgia Department of Transportation (GDOT).** Assistant Project Manager for this 0.10-mile long bridge replacement project on the northwest side of the heavily travelled SR 10 loop. This bridge replacement project is a 4-lane divided rural freeway around the city of Athens, GA to replace the existing 288-foot long, twin steel beam bridges, with a 3-span 350-foot long PSC beam bridge over the river. Staged construction will be utilized by first building a portion of the new bridge in the median area while traffic is maintained on the existing bridges. SR 82 is a 0.30-mile long 2-lane rural bridge replacement project that will replace the existing 4-span 250-foot long steel beam bridge with a 270-foot long, 3-span PSC beam bridge on a curved roadway alignment over the river. ABC techniques and an off-site detour will be utilized by closing the roadway to minimize the construction schedule and disruption to the public. M&N is responsible for overall project management, concept design, public involvement, environmental, preliminary plans, right-of-way plans, final construction plans including full bridge design and bridge hydraulic studies on this bundle.
06/16 – Ongoing	**Quacco Road Widening, Chatham County, Georgia. Chatham County**. Design engineer for the proposed Quacco Road Improvements project. The project includes roadway widening and operational improvements to intersections, drainage features, and pedestrian facilities along a 2.6-mile-long segment of this corridor beginning just east of the existing bridge over I-95 and terminating at the existing signalized intersection with US 17. In addition, ADA compliant sidewalks and a 10' shared use path will contribute to the connectivity for the existing commuter bus route of Chatham Area Transit (CAT). The project deliverables will include completion of concept design, preliminary plans, stormwater management, right-of-way plans and final plans.
05/14 – 04/19	**Operational, Safety and Pedestrian Improvements along Maxham Road, Douglas County, Georgia. Douglas County**. Lead engineer for the construction of operational, safety and pedestrian improvements along Maxham Road from SR 6/Thornton Road to Tree Terrace Parkway. This project includes 0.5 miles of roadway improvement, stormwater management facilities, and sidewalks. The project deliverables include concept, preliminary and final construction plans, right of way plans and NPDES permitting.
11/01 – 10/15	**SR25CO/Bay Street Widening, Chatham County, Georgia. Chatham County.** Design engineer for the widening of 1.3 miles of an existing sub-standard four-lane facility to a four-lane section with raised median and urban shoulders. A high volume of pedestrian traffic and potentially historic properties along the project corridor complicates the project. One of the major purposes of this project was to improve pedestrian safety by providing accessible pedestrian facilities with connections to adjacent businesses, neighborhoods, parks, and bus facilities. The completed project will provide a safe and aesthetically pleasing gateway to Savannah from the west. The project deliverables include concept development and approval, preliminary and final construction plans, right of way plans and NPDES permitting.

Firm employed by **Michael Baker**				
Name	**Kenny Collins, PE**		Years of relevant experience with this employer	➲ **40**
Title	Associate Vice President		Years of relevant experience with other employer(s)	➲ **0**
bDegree(s) / Years / Specialization			BS / 1983 / Civil Engineering	
Active registration number / state / expiration date			PE.0033109 / Louisiana/ 09-30-2025	
Year registered	2007	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**MPR3. QA/QC REVIEWER - ROADWAY**	

Mr. Collins assists the Vice President and Operations Manager in contract administration, scheduling and budgeting, quality assurance and business development activities. He also lends assistance to the Operations Manager in project responsibility and manpower, client satisfaction and general administrative operations. Transportation projects performed within the group typically include a wide variety of services: highway traffic studies, location studies, preparation of NEPA documents, surveys, preliminary roadway and bridge design, right-of-way (ROW) title search, right-of-way plans/plots, legal instruments, field right-of-way staking, preparation of final roadway and bridge plans, contract documents and complete construction management and inspection; airports; ports and wharves; and, railroad National Enviornmental Policy Act (NEPA) documents and contract plans for railroads and bridges.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/17-12/19	**2017 Roadway Design Services IDIQ Master Contract, Statewide, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsibilities include overseeing the successful execution of all work assignments issued under this contract. This entails ensuring that all project deliverables meet the MDOT's standards and are completed within the designated timelines. Additionally, the role involves the strategic delegation of tasks to team members, guaranteeing that each assignment is handled efficiently and effectively, aligning with the client's objectives and expectations.
02/19-12/22	**2018 Traffic Engineering Services IDIQ, Statewide, Mississippi. Mississippi Department of Transportation.** Technical Manager. Responsibilities include the comprehensive administration of the contract, ensuring all terms and conditions are met efficiently. This role also encompasses the Quality Assurance/Quality Control (QA/QC) of all traffic engineering plans, verifying that they adhere to the high standards set by MDOT. Furthermore, the Technical Manager is tasked with coordinating with various stakeholders to facilitate the smooth progression of projects from conception through to completion, maintaining the highest level of quality throughout all phases.
09/22-Ongoing	**2021 Hydraulic Engineering Services IDIQ, Statewide, Mississippi. Mississippi Department of Transportation.** Engineering Manager. Responsibilities includes managing the administration of the contract, ensuring that all aspects of the service agreement are executed in accordance with the client's requirements. Additionally, the Engineering Manager is accountable for the meticulous planning and maintenance of project schedules, making certain that all milestones are met within the set deadlines. The role also demands proactive communication with the MDOT to align project objectives with client expectations, ensuring a seamless workflow and timely delivery of services.
10/22-Ongoing	**2022 Traffic Engineering Services Master, Statewide, Mississippi. Mississippi Department of Transportation.** Technical Manager. Responsibilities include the comprehensive administration of the contract, ensuring all terms and conditions are met efficiently. This role also encompasses the Quality Assurance/Quality Control (QA/QC) of all traffic engineering plans, verifying that they adhere to the high standards set by MDOT. Furthermore, the Technical Manager is tasked with coordinating with various stakeholders to facilitate the smooth progression of projects from conception through to completion, maintaining the highest level of quality throughout all phases.

10/20-03/23	**2019 Planning and Environmental Services IDIQ Master, Statewide, Mississippi. Mississippi Department of Transportation.** Technical Manager. Responsibilities includes managing the administration of the contract, ensuring that all aspects of the service agreement are executed in accordance with the client's requirements. Additionally, the Engineering Manager is accountable for the meticulous planning and maintenance of project schedules, making certain that all milestones are met within the set deadlines. The role also demands proactive communication with MDOT to align project objectives with client expectations, ensuring a seamless workflow and timely delivery of services.
12/23-Ongoing	**2023 Roadway Design Services IDIQ, Statewide, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsibilities include overseeing the successful execution of all work assignments issued under this contract. This entails ensuring that all project deliverables meet the MDOT's standards and are completed within the designated timelines. Additionally, the role involves the strategic delegation of tasks to team members, guaranteeing that each assignment is handled efficiently and effectively, aligning with the client's objectives and expectations.
12/19-04/20	**2019 On-Call Roadway Services, Statewide, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsibilities include administering the contract to ensure all services are delivered in compliance with the terms agreed upon with the Mississippi Department of Transportation. The Project Manager also provides comprehensive oversight of the project, supervising all phases to guarantee that the project objectives are met and align with the client's expectations. Moreover, the position involves coordinating with various teams to facilitate effective communication and the timely completion of all awarded roadway services task orders under the contract.
04/21 -Ongoing	**2021 On-Call Services, Statewide, Mississippi. Mississippi Department of Transportation.** Technical Manager. Responsibilities involves not only crafting detailed engineering designs but also ensuring that these plans are practical, cost-effective, and compliant with all relevant regulations. The Technical Manager must also collaborate closely with the MDOT, providing expert advice and adjustments to designs to meet the evolving needs of the statewide infrastructure projects and plan development
10/17-11/22	**US 49 Florence to Scales Construction Engineering and Inspection, Rankin County, Mississippi. Confidential Client.** Technical Manager. Responsible for the management of Phase C services. This includes review of all submittals form the contractor and answering all RFI's from the contractor. This also includes attending all meetings with the contractor. Michael Baker provided engineering services, including field surveys, preliminary through final design, construction phase services, and public relations support, for the construction of U.S. 49 from Florence to the Scales Area. Working as an extension of client staff, Michael Baker provided construction management, Phase C Design (RFI/submittals), utility coordination, scheduling review (Primavera P6), material testing, erosion control, surveying, traffic control, and public relations support, for the construction of U.S. 49 from Florence to the Scale Area
08/12-05/17	**US Highway 49 Improvements between Florence and the Scales Area, Rankin County, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsible for overall design of roadway and bridge plan preparation. Michael Baker is providing engineering services for roadway and bridge construction on U.S. 49 between Florence and the Scale Area just south of I-20. Michael Baker's services include the development of detailed design plans for bridges and roadway, including lighting, traffic control, signing, signalization, and intelligent transportation systems.
09/10 - 09/11	**Replacement of the S.R. 512 Bridge over the Chickasawhay River, Clarke County, MS. Mississippi DOT.** Project Manager. Served as project manager for overall design and plan development. Michael Baker provided engineering services for the replacement of the S.R. 512 bridge over the Chickasawhay River. Michael Baker's services included a review of previous design plans, field survey, and the development of final construction plans. Also served as Technical Manager responsible for project oversight for this Phase C project, which included review of shop drawings for the replacement of the bridge.

Firm employed by **Michael Baker**				
Name	**Brooks Miller, Jr., PE, PTOE**		Years of relevant experience with this employer	**26**
Title	Associate Vice President		Years of relevant experience with other employer(s)	**0**
bDegree(s) / Years / Specialization			BS / 1983 / Civil Engineering	
Active registration number / state / expiration date			PE.0034472 / Louisiana/ 09-30-2025	
Year registered	2007	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**TRANSPORTATION/ROADWAY DESIGNER**	

Mr. Miller is experienced in designing and managing roadway and traffic design projects. Mr. Miller has gained valuable planning, roadway and traffic related experience over the last several years working on numerous department of transportation projects. He has served as project manager on numerous high-profile highway design and rehabilitation projects involving design coordination, plan development, signing and pavement marking details development, traffic signal design, community outreach, contractor coordination and issue resolution, and intricate maintenance of traffic and construction phasing design.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/22- Ongoing	**Owner's Project Manager for I-10 Mobile River Bridge and Bayway Project. Alabama Department of Transportation.** MOT and Roadway Manager. Michael Baker is serving as the owner's representative for the Mobile River Bridge and Bayway Project. This is to provide support services to ensure compliance of the Design-Builder's design, construction, contract documents, construction engineering and inspection, and testing.
07/22- Ongoing	**SR 35 Widening and Additional Lanes from CR-62 to CR-124 through the Town of Section, Jackson County, Alabama. Alabama Department of Transportation.** Project Manager. Michael Baker provided engineering services to widen and add lanes to SR 35 through the Town and Section. Michael Baker's services included the preparation of ROW plans, stormwater design, floodplain studies, erosion and sediment control plans, final design, cost estimates, and traffic control plans.
06/21-11/22	**Owner's Project Manager for I-10 Mobile River Bridge and Bayway Project (Phase 1). Alabama Department of Transportation.** Project Manager. Michael Baker served as the owner's representative for the Mobile River Bridge and Bayway Project (Phase 1). This included pre-construction activities, writing and assisting with the RFQ and RFP, and helping manage other project consultants while short-listing and selecting a Design-Build Team.
05/19-09/19	**SR 6/US 82 Widening and Additional Lanes from SR-14 to US-31, Prattville, Alabama. Alabama Department of Transportation.** Project Manager. Responsible for roadway and drainage design for final construction plans to the client for a three-mile highway widening project on US 82. Project included the replacement of two bridges. A hydraulic bridge over Autauga Creek and a second bridge over a Norfolk Southern Railroad line. The project also included the design for asphalt paving with a concrete paving alternate.
02/17-08/18	**SR 304 and McIngvale Road Interchange, Final Construction Plans, Desoto County, Mississippi. Mississippi Department of Transportation.** Project Manager. Michael Baker developed Phase B Final Contract Plans for a new diamond interchange at SR 304 and McIngvale Road. Michael Baker provided final design for four ramps and developed a 3D design model of the new interchange using Power Geopak. Included in this contract, Michael Baker developed drainage plans, permanent signing and pavement marking plans, traffic control plans and details, construction signing, and traffic signal design for two traffic signals located at the eastbound and westbound ramp intersections with McIngvale Road. Michael Baker prepared intelligent transportation system (ITS) plans and details for a fiber connection between traffic signals and existing ITS infrastructure.
04/06-08/11	**Reconstruction of I-55 from North of Old Agency Road to South of SR 463, Madison County, Mississippi. Mississippi Department of Transportation.** Civil Engineer. Michael Baker provided engineering services for the reconstruction of three miles of I-55 from Old Agency Road to SR 463. The reconstruction created a split-diamond interchange with frontage roads and several bridges and retaining walls. A new four-lane boulevard was constructed as the southern leg of the interchange, and an existing two-lane road was reconstructed into a four-lane boulevard as the northern leg. Michael Baker provided field surveys,

	digital orthophotography mapping, preliminary and final roadway, bridge, and retaining wall design; hydraulics and hydrology; maps and deeds; signalization, intelligent transportation system, and lighting design; construction phase services; and quality control/quality assurance.
07/15-08/19	**SR 304 and McIngvale Road Interchange Environmental Assessment and Phase A Right-of-Way Plans, DeSoto County, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsible for project oversight. Michael Baker is performing an environmental assessment and preparing Phase A right-of-way plans for a proposed interchange at SR 304 and McIngvale Road. Michael Baker's services include data collection and analysis, traffic impact analyses, alternatives analysis, preparation of preliminary and final right-of-way plans, public involvement, and preparation of environmental assessment documentation.
09/13-08/16	**SR 15 and Lamey Bridge Road Roundabout, Harrison County, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsibilities include project management, budget setup, roadway plan design and detail, QC/QA, and preliminary and final submittal of Phase A Final ROW plans. Michael Baker provided engineering and environmental services for a proposed roundabout at the intersection of SR 15 and Lamey Bridge Road. Michael Baker's services included a Phase I archaeological survey, a categorical exclusion, a traffic analysis and impact study, and development of Phase A final right-of-way plans.
04/07-02/13	**I-269 from East of I-55 to North of SR 305, DeSoto County, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsible for the project management, budget, roadway design plans, and QA/QC. Michael Baker provided engineering services for I-269 from east of I-55 to north of SR 305, and services included detailed mapping from aerial photography, field surveys, traffic analysis, the preparation of final right-of-way plans, and preparation of final construction plans.
01/10-12/12	**I-15 Corridor Expansion, Utah County, Utah. Utah Department of Transportation.** Civil Engineer and MOT Manager. Served as the MOT Design Lead from project startup in January 2010 to February 2011. Provided the maintenance of traffic and construction phasing design for the four-mile segment of I-15, including three full interchange replacements. Served as the Maintenance of Traffic Manager from February 2011 to project completion in December 2012. Responsibilities included MOT and construction phasing design. Coordinated and resolved traffic issues with owners, contractors and local agency stakeholders. Responsible for Requests and Notices of Closures with Utah Department of Transportation, conducted Technical Workgroup meetings, and handled MOT design changes during construction. I-15 CORE was a $1.2 billion project in Utah County that included the reconstruction of 24 miles of I-15, including 10 interchanges and 63 bridges. Project also included accelerated bridge construction design and complex construction phasing.
12/09-01/14	**I-55/SR 570 Interchange Improvements, McComb, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsible for the project management, budget setup, plan design and detail, quantity calculations, QC/QA, and final roadway design and traffic signal plans. Under an engineering services master agreement, Michael Baker performed the field survey and developed final roadway and traffic signal design plans for interchange improvements at the I-55 and SR 570 interchange. The project widened and lengthened the entrance and exit ramps to add turn lanes and included two new traffic signals on SR 570. Michael Baker performed the traffic modeling for the improvements and designing conduit and fiber-optic cable installations to interconnect the new traffic signals with the master system.

Firm employed by **Michael Baker**				
Name	**Jade Rung, PE, PMP**		Years of relevant experience with this employer	➲ 3
Title	Associate Vice President		Years of relevant experience with other employer(s)	➲ 27
bDegree(s) / Years / Specialization			BS / 1995 / Civil Engineering	
Active registration number / state / expiration date			PE.0029081 / Louisiana / 09-30-2026 Project Management Professional No. 1284298 / July 2027	
Year registered	2000	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**CLIENT LIASON**	

Mr. Rung is experienced in all phases of delivery for multi-million-dollar capital projects. He has a proven history of domestic and international business development and program/project management for commercial, municipal, industrial, marine, and heavy civil construction. He has substantial experience in design and construction management including the delivery in all phases of the project life cycle. In addition, Mr. Rung has successfully led the delivery of multiple Design-Build facility construction projects, both as a designer and as a general contractor. His skills include scheduling, cost management, construction coordination, scope compliance, issues/change management, conflict resolution, standardized status reporting, and community outreach.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2022-2023	**Parish Comprehensive Drainage Plan, Covington, Louisiana. St. Tammany Parish.** Business Development Lead. Responsible for project acquisition and sttakeholder engagement; client management, public outreach coordination, and local representation. Michael Baker conducted a comprehensive drainage plan for the Saint Tammany Parish located on the north shore of Lake Pontchartrain, Louisiana. The plan evaluated the existing state of drainage in the parish including flood risk, water quality and development guidelines, recommended capital projects, and potential policy changes that would lead to reduced flood damaged and increased safety. The Michael Baker team provided data gathering efforts, ranked list of problem areas and provided four (4) in-person public and stakeholder outreach throughout Phase I of this project.
2021- Ongoing	H.013284 **Mississippi River Bridge South GBR: LA 1 to LA 30 Connector, Baton Rouge, Lousiana. LADOTD. Executive** Sponsor for Bridge Services. Mr. Rung provided business development and executive contract development for the bridge design/review services for the Enhanced Planning Study for the new bridge crossing of the Mississippi River to alleviate traffic congestion in the Capital Region. The five-parish Baton Rouge Metropolitan Area includes Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes. The new "south" Mississippi River Bridge and approaches will be a conventional highway/expressway facility connecting to LA 1 on the west side of the Mississippi River and to LA 30 (and widening of LA 30) on the east side of the Mississippi River. It is planned that the new crossing will be funded in part through the collection of tolls. Three alternatives have been identified from the Enhanced Planning Study and will be analyzed further in Part 2 of the project, which consists of preparing the NEPA document to identify a preferred alternative.
01/16-01/17	**Ocean Cay MSC Marine Reserve, Ocean Cay, Bahamas. MSC Cruises.** Project Development Manager. Facilitated the scope development and coordination for the Design-Build project; investigated scope alternatives, provided detail adjustments and facilitated value-engineering options for the construction of the project; coordinated scope and bid evaluations for the dredging, sitework, port improvements, building construction, and utility systems for the island development. The project work includes dredging, demolition, clearing and grubbing, mass grading, beach grading and re-nourishment, bulkhead for cruise ship berth and marina basin, breasting and mooring dolphins, CIP reinforced concrete, rip rap, landscape, hardscape, buildings, utilities, RO plant, power plant (generators), wastewater treatment plant, fuel storage, water intake wells, and deep injection wells.

01/01-01/03	**Marine Corps Reserve Training Center, Lafayette, Louisiana. Department of the Navy.** Project Manager. Provided contract negotiation and management of all subcontractors for every trade on the project; provided estimating, negotiating, contracting, and change management services for the Design-Build project.
01/98-01/99	**Bulk Cement Handling and Storage Dome, Clarkesville, Missouri. Holnam Cement.** Project Manager. Provided on-site design and construction coordination for the project including cost estimating, scheduling, and reporting; provided monthly updates to the Holnam Cement, Inc. plant board of directors; handled all phases of the construction process including procurement and implementation of specialized designed and fabricated equipment. As an unofficial Design-Build package to the client, oversaw design and was contracted to deliver the world's largest cement storage dome with a capacity of 90,000 tons along the Mississippi river. The project was completed within 12 months.
2006	**Louisiana Transportation and Development District 02 Office Hurricane Repairs, New Orleans, LA. LADOTD.** Department of General Contractor. Provided general contracting, permitting, subcontracting, scheduling, coordination and close-out for the repairs to the existing office building.
2010-2011	**Ruskin Dam Rehabilitation. British Columbia Hydro Power, Vancouver, Canada. Project Controls Manager/Deputy** Project Manager. Provided management for the project controls team to provide all data control for the project; coordinated internal project tasks and responsibilities; developed cost-loaded project schedule including maintenance and publication; facilitated internal and external project communications; coordinated all project scopes, schedules, funding, and budgets for accurate and timely reporting during all phases of the project.
2011-2012	**Union Passenger Terminal to Canal Street Rail Expansion, City of New Orleans, New Orleans, LA. Regional Transit Authority.** Project Executive. Facilitated communications for the project between the internal project management team, City of New Orleans, project designer, and general contractor; provided updates on the progress and schedule look-ahead for the project progress.
2011-2012	**Sewer System Evaluation and Rehabilitation Program, City of New Orleans, New Orleans, LA. Sewerage and Water Board of New Orleans.** Project Executive. Facilitated communications for the project between the internal project management team, City of New Orleans, project designer, and general contractor; provided updates on the progress and schedule look-ahead for the project progress.
2014-2016	**Hurricane and Storm Damage Risk Reduction System (HSDRRS), Mississippi River Levee (1.2A & 2.2) Flood Protection. US Army Corps of Engineer.** Project Executive. Provided executive support for the project delivery team; local communications with State, Parish, and City officials; provide oversight for the general construction activities.
12/09-01/14	**I-55/SR 570 Interchange Improvements, McComb, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsible for the project management, budget setup, plan design and detail, quantity calculations, QC/QA, and final roadway design and traffic signal plans. Under an engineering services master agreement, Michael Baker performed the field survey and developed final roadway and traffic signal design plans for interchange improvements at the I-55 and SR 570 interchange. The project widened and lengthened the entrance and exit ramps to add turn lanes and included two new traffic signals on SR 570. Michael Baker performed the traffic modeling for the improvements and designing conduit and fiber-optic cable installations to interconnect the new traffic signals with the master system.

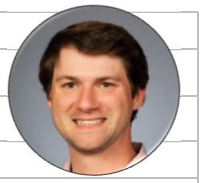
Firm employed by **Michael Baker**			
Name	**Alexis Harrouch, EI**	Years of relevant experience with this employer	➲ **<1**
Title	Engineer Intern	Years of relevant experience with other employer(s)	➲ **1.5**
Degree(s) / Years / Specialization		B.S. / 2020 / Civil Engineering	
Active registration number / state / expiration date		EI.0034742 / LA / 06-30-2023 Traffic Control Technician-LA State Specific / August 2026 Traffic Control Supervisor-LA State Specific / August 2026	
Year registered	2021	Discipline	Civil
Contract role(s) / brief description of responsibilities		**TRANSPORTATION/ROADWAY DESIGNER**	

Ms. Harrouch will serve a transportation/roadway designer responsible for the development of horizontal and vertical alignments, roadway hydraulics, development of 3D design models, and development of construction plans.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/22 – Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana. LADOTD.** Transportation/Roadway Designer. Responsible for the horizontal layout of detour road/bridge for the replacement of the existing bridge at Sibley, LA. Additional responsibilities include the develop of construction plans that meet DOTD and KCS RR requirements.
10/22 – 5/23	**Barksdale AFB Entrance Road and Gate Complex, Design-Build, Bossier Parish, Louisiana.** Transportation/Roadway Designer. Responsible for the quantity takeoff and development of construction plans for contractor on a design-build project for new entrance roads for Barksdale AFB. The project consists of the design and construction of an extension of an existing state-owned highway, LA 1267, along with a new multi-lane roundabout. The new roadway will be a 4-lane divided highway entrance into the Barksdale AFB.
10/22 - Ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program – District 07, Louisiana. DOTD**. Project Manager. Responsible for the development of construction plans for 12 Off-System Bridge replacement locations for the five parishes in District 07. Additional responsibilities include the coordination with sub-consultants for the services of topographic surveys, row mapping, geotechnical investigations, and hydraulic support. This project program requires Michael Baker to deliver 12 bridge replacements within the $30.3 million dollars with allocated for District 07. DOTD issued NTP for additional services in May 2023
10/22 - Ongoing	**LA 30: EBR P/L – I-10, Iberville and Ascension Parishes, Louisiana. LADOTD.** Engineer Intern/Roadway Designer. Responsible for the layout of the existing alignment along with determining the apparent row along the corridor based off as-builts and provided GIS parcel information from both Ascension and Iberville Parishes. Project limits have been extended an additional 5 miles to include the environmental study along the corridor in East Baton Rouge Parish. Additional responsibilities include the delineation of drainage area for several cross structures (bridge/box culverts/culverts) along the corridor along with determining the existing flows for those structures.
10/22 - Ongoing	**Airline Highway (US 61) – North for MOVEBR, East Baton Rouge Parish, Louisiana | City/Parish of Baton Rouge.** Engineer Intern. Responsible for the delineation of drainage areas along with using the DOTD Hydraulics Manual and HYDRWIN software to develop the flows for both Jones Creek and Hurricane Creek that cross along the project limits. Additional responsibilities include checking the required hydraulics for the addition of an additional through lane in each direction and the impacts on existing parallel drainage along the corridor. The project is currently in the NEPA phase and once environmentally clear, required drainage structures will be designed for the future improvements.

01/23 - Ongoing	**Ardenwood-Lobdell Connectory for MOVEBR, East Baton Rouge Parish, Louisiana | City/Parish of Baton Rouge.** Engineer Inter. Responsible for performing independent technical review of roadway plans at each milestone submittal for the new Ardenwood-Lobdell Connector. The new connector is a 2-lane roadway with curb & gutter along with intersection improvements at both Lobdell Ave. and Ardenwood Rd. Project includes accommodations for complete streets with pedestrian sidewalks and bikepaths.
08/21 - 08/22	**Perkins Road, East Baton Rouge Parish, Louisiana. East Baton Rouge Parish**. Engineer Intern**.** Responsible for the design of a section of roadway drainage. Additional responsibilities included the takeoff of project quantities along with participating in the development of geometry design for the project as well as the development of a striping layout.
01/21 – 09/22	**I-49 Connector, Lafayette, Louisiana. Lafayette Parish**. Engineer Intern. Responsible for the development of preliminary typical sections, cross sections and roadway models through the use of Microstation and Inroads Select Series 2. Developed vehicle turning move layouts with the use of Transoft AutoTurn along with participating in the development of geometry design for the project. Additional responsibilities included roundabout design in the core area along with the required tapers per LADOTD Standards.
02/21 – 04/22	**Constantin, East Baton Rouge Parish, Louisiana. East Baton Rouge Parish**. Engineer Intern. Responsible for the development of project design quantities along with the development of signing and striping layouts. Additional responsibilities included the development of geometric detail and layout sheets for the project.

Firm employed by **Michael Baker**			
Name	**Justin West, PE, CFM**	Years of relevant experience with this employer	➲ **1**
Title	Civil Associate	Years of relevant experience with other employer(s)	➲ **3**
Degree(s) / Years / Specialization		BS / 2019 / Environmental Engineering / Louisiana State A&M University	
Active registration number / state / expiration date		PE.0049277 / Louisiana / 3-31-2025 CFM US-22-12180 / 01/31/2026	
Year registered	2019	Discipline	Civil
Contract role(s) / brief description of responsibilities		**WATER RESOURCES ENGINEER**	



Mr. West will serve as hydraulics engineer for both roadway and bridge hydraulics for task orders throughout the duration of this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/23 – Ongoing	**IIJA Off System Bridge Replacement, District 07 Parishes | DOTD**. Hydraulics Reviewer. Mr. West assisted in technical QC by reviewing several watersheds delineated within the project area and the associated hydraulic calculations.
03/23-Ongoing	**FM 149 | TxDOT.** PCSWMM Designer. Mr. West assisted in the proposed conditions modeling by developing the proposed conditions model in PCSWMM, creating the proposed drainage areas, structures, and geometry.
04/22 – Ongoing	**LA 30: EBR PL – I-10, Ascension, Iberville, and East Baton Rouge Parishes, Louisiana | DOTD** Technical QC. Mr. West assisted with the technical QC process by reviewing several watersheds delineated within the project area and the associated hydraulic calculations.
09/21 – Ongoing	**Louisiana Watershed Initiative (LWI) Region 6 TO 3, Louisiana | DOTD**. HEC-RAS Modeler. I am the Lead modeler for the Eastern Central Louisiana Coastal (Region 6) HEC-RAS model. I developed the loss method for infiltration, soils, and land use data. I created centerlines for the major streams in the watershed by filtering out small streams from the National Hydrology Database. I developed the hydraulic models' break lines, bridge structures, and mesh geometry. I simulated storms within the HEC-RAS models and adjusted calculated values to calibrate and validate the model.
09/21 – Ongoing	**Louisiana Watershed Initiative Modeling Contract – Region 1, Louisiana. DOTD**. HEC-RAS Modeler. I am the lead modeler for Black Lake Bayou (Region 1) HEC-RAS model and technical Qc reviewer. I developed the loss method for infiltration, soils, and land use data. I created centerlines for the major streams in the watershed by filtering out small streams from the National Hydrology Database. I developed the hydraulic models' break lines, bridge structures, and mesh geometry. I simulated storms within the HEC-RAS models and adjusted calculated values to calibrate and validate the model.
02/22 – 02/23	**LCG Stormwater Master Plan, Lafayette Parish | Lafayette Consolidated Government**- Mr. West analyzed multiple watersheds with 2D hydraulic modeling in HEC-RAS. Mr. West completed the existing conditions model for one of the watersheds in this project. Mr. West assisted with the proposed alternatives to mitigate flooding for the basin that was also developed for the client. Mr. West was responsible for the proposed and existing models. Using the outcome of the proposed projects to establish mitigation alternatives for stormwater management. Mr. West reviewed the results and drafted a report highlighting the conclusions made
02/22 – 02/23	**East Baton Rouge City-Parish Stormwater Master Plan, East Baton Rouge Parish Department of Transportation and Drainage** – Mr. West assisted in developing the proposed conditions Floodplain Conveyance Zones for Several watersheds within the Parish.

02/22 – 02/2023	**LCG Residential Buyout Plan, Lafayette Parish | Lafayette Consolidated Government** - Mr. West used GIS programming to create a structure map of Lafayette Parish to locate at-risk structures for a buyout program. Using the outcome of the proposed locations to establish a mitigation plan that distinguished houses that would be the most at-risk alternatives from stormwater flooding. Mr. West reviewed the results and drafted a report highlighting the conclusions made.
05/22 – 02/23	**RESTORE Parish Matching Grant Program | CPRA** The CPRA Parish Matching Program was designed to help coastal parishes that received RESTORE funds prioritize Coastal Master Plan projects while also recognizing and responding to the needs of parishes to implement projects that may not be contained in the Coastal Master Plan. Mr. West is responsible for the Existing and proposed models. Using the projects to establish non-structural mitigation alternatives for stormwater management. Mr. West reviewed the results and drafted a report highlighting the conclusions made.
02/22 – 02/23	**Chennault Stormwater Plan | Calcasieu Parish Public Works** Mr. West analyzed the Chennault Airport's existing drainage conditions with 2D hydraulic modeling in HEC-RAS. Proposed alternatives to mitigate flooding for the Airport were also developed for the client. Mr. West was responsible for the proposed models. Using the outcome of the proposed projects to establish mitigation alternatives for stormwater management. Mr. West reviewed the results and drafted a report highlighting the conclusions made
05/22 – 02/23	**Comite River Improvements Feasibility Study | East Baton Rouge Parish Department of Transportation and Drainage**. Mr. West reviewed the data received from the areal drone survey, 2D hydraulic modeling to represent the impacted channel, and report writing.
02/21 – 02/22	**St. Charles Parish Drainage Master Plan | St. Charles Parish Public Works**. Mr. West was an engineering modeler developing the St. Charles Parish Master Drainage Plan (MDP). The MDP analyzes the existing gravity and forced drainage networks within the West Bank of St. Charles Parish and provides recommendations for improvements to these systems aimed towards mitigating flooding both for the existing conditions and due to future planned development.
06/20 – 02/21	**LWI and HMGP Permit Applications:** Grays Creek North and South and Grays Creek Detention Ponds, Dixon Creek Drainage Improvements, Shadow Springs Subdivision Drainage Improvements, Colonial Cove Subdivision Drainage Improvements, Walker Sewer Mitigation Project, Clinton Allen Drainage Ditch, and created hydrologic and hydraulic analysis and FEMA benefit-cost analysis.
06/20 – 02/21	**Steady Flow 1D HEC-RAS Model, Beaver Creek, and Long-Slash Branch Watersheds**. Mr. West completed 1D hydraulic and hydrologic models for the Bever Creek and Long-Slash Branch watersheds. These studies involved the hydrologic and hydraulic analysis of drainage structures and drainage areas within the watersheds. Existing conditions and proposed conditions models were created along with a benefit-cost analysis for the improvements proposed in the proposed conditions model.

Firm employed by **Michael Baker**			
Name	**Afaq Ahmad Durrani, EI**	Years of relevant experience with this employer	➲ 1
Title	Civil Associate	Years of relevant experience with other employer(s)	➲ 1
Degree(s) / Years / Specialization		M.S.E / 2022 / Civil Engineering / University of Louisiana at Lafayette	
Active registration number / state / expiration date		EI.0035541 / LA / 03-31-2026	
Year registered	2023	Discipline	Civil
Contract role(s) / brief description of responsibilities		**WATER RESOURCES ASSOCIATE**	

Mr. Durrani will serve as hydraulics engineer for both roadway and bridge hydraulics for task order through out the duration of this contract. He has recently passed his FE exam and is currently just waiting on LAPELS to issue his EI license number.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/23 – Ongoing	**IIJA Off System Bridge Replacement, District 07 DOTD.** Mr. Afaq delineated watersheds within the project area and performed hydraulic calculations using HYDRWIN.
01/23-Ongoing	**Louisiana Watershed Initiative Modeling Contract – Region 1, Louisiana. DOTD.** HEC-RAS Modeler. Mr. Afaq is the modeler for Black Lake Bayou. He created a portion of the 2D model where he developed break lines, refinement regions, culverts, bridge structures and mesh geometry in the hydraulic model. He also created 1D models for several HUC 08's in region 1 which include Blake Lake Bayou, Saline Bayou and Bodcau Bayou.
01/23 – Ongoing	**Louisiana Watershed Initiative Modeling Contract – Region 4, Louisiana. DOTD.** HEC-RAS Modeler. Mr. Afaq is calibrating the HEC-RAS 2D model for Lower Sabine.
05/22 – 12/22	**BLE model for Hazard Rd. Iberia Parish Government, Louisiana.** Student Intern. Mr. Afaq developed the Base Level Engineering model for Hazard Road to check the effect of asphalt overlay on flooding in the adjacent area. Mr. Afaq used HEC-RAS to create a 2D model.
05/22 – 12/22	**University at Renaud Roundabout. LaDOTD.** Student Intern. Mr. Afaq was part of the drainage design team. He delineated the drainage area and determined the longest flow paths, calculated the time of concentration, discharge and pipe size. He utilized ArcGIS pro and HYDRWIN for drainage design.
05/22 – 12/22	**Kaliste Saloom: Phase 3B. Louisiana Consolidated Government (LCG).** Student Intern. Mr. Afaq helped with preparing daily, weekly reports and monthly payment sheets.

Firm employed by **Michael Baker**				
Name	**Jeffrey McRae, PE**		Years of relevant experience with this employer	**27**
Title	Technical Manager – Bridge		Years of relevant experience with other employer(s)	**0**
Degree(s) / Years / Specialization			B.S. / 1996 / Civil Engineering	
Active registration number / state / expiration date			PE.0034554 / LA / 09-30-2025	
Year registered	2009	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**BRIDGE DESIGN ENGINEER**	

Mr. McRae will serve as structural design leader if task orders require new/replacement/modification of existing structures.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/21 – Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana. LADOTD.** Bridge Design Lead. Mr. McRae is serving as the Bridge Design Lead for the replacement of 3 bridges along US 371 at 2 locations: Sibley, La and Minden, LA. His responsibilities include overseeing the bridge design calculations and development of bridge plans making sure they meet both DOTD and KCS Railroad Design Guidelines. Project does include the design of a detour structure (Akrow Bridge) for the bridge site at Sibley in order to keep US 371 open under traffic.
01/06 - 12/12	**S.R. 27 Reconstruction Between the Kansas City Railroad and US 80, State Route 27, Vicksburg, Mississippi. Mississippi Department of Transportation**. Project Manager. Responsibilities included project management, generation of engineering design calculations, bridge geometry, bridge quantities and conceptual through final design contract plans. This project consisted of preparation of right-of- way and construction plans to reconstruct S.R. 27 between the Kansas City Railroad and US 80 in Warren County, MS. Michael Baker performed bridge and retaining wall design as well as roadway lighting. Suconsultants, ABMB and CivilTech, provided the necessary roadway design.
01/10 - 04/13	**S.R. 16 from S.R. 15 to S.R. 19 Bridge Design, Neshoba County, Mississippi. Mississippi Department of Transportation**. Engineer. Responsibilities included generation of engineering design calculations, bridge geometry, bridge quantities, and conceptual through preliminary bridge design contract plans for ten bridges. Michael Baker provided engineering services for improvements to 10 miles of S.R. 16 from S.R. 15 to S.R. 19. Michael Baker's services included the Phase A preliminary bridge plans for eight bridges, including hydraulic design for three bridges and a railroad crossing bridge, and stream and wetland delineation.
12/00 - 01/04	S**.R. 22 / Nissan Roads, Madison County, Mississippi. Mississippi Department of Transportation.** Assistant Engineer. Responsibilities included generation and checking of engineering design calculations, bridge quantities and final design contract plans. Responsibilities also included generating all bridge design calculations and contract plans for an AASHTO beam bridge located at Nissan Drive over the Illinois Central Railroad. This Nissan project was for the development of contract plans for three access roads to the site of the Nissan Plant in Canton, Madison County, Mississippi.
11/13 - 12/19	**S.R. 28 Big Creek, Quinn Creek, and Strong River Bridge Replacements, Simpson County, Mississippi. Mississippi Department of Transportation.** Engineer. Responsibilities included generating preliminary bridge R.O.W. plans, geometric calculations and design calculations for three hydraulic bridge crossings. One of the crossings, Strong River, required four separate alternates to be detailed as well as a construct-ability report and cost estimate comparison discussing the advantages and disadvantages of each alternate. Michael Baker is providing engineering services for the replacement of the S.R. 28 bridges over Big Creek, Quinn Creek, and Strong River. Michael Baker's services included hydraulic analyses, scour assessments, stream bank stabilization evaluations, preparation of hydraulic analysis reports, and conceptual and preliminary design.
03/09 - 03/21	**S.R. 9 Bridge Replacements, Calhoun County, Mississippi. Mississippi Department of Transportation**. Project Manager. Responsibilities included overall project management, QA/QC of bridge design calculations, and generation of final contract plans. Michael Baker provided engineering and design

	services for final bridge construction plans for four bridge replacements: Bridge No. 35.5 over Shutispear Creek, Bridge No. 40.7 over Yalobusha River Relief, Bridge No. 40.9 over Yalobusha River, and Bridge No. 41.2 over Yalobusha River Relief on S.R.9.
09/13 - 12/16	**S.R. 3 Bridge Hydraulic Design, Tate County, Mississippi. Mississippi Department of Transportation**. Engineer. Responsibilities included generating preliminary bridge R.O.W. plans, geometric calculations and design calculations for two hydraulic bridge crossings. Michael Baker provided engineering services for the replacement of the S.R. 3 bridges over Strayhorn Creek and Arkabutla Creek. Michael Baker's services included bridge hydraulic analyses, scour analysis and evaluation, bridge scour and stream bank stabilization design, and conceptual and preliminary structural design.
05/12 - 12/14	**S.R. 6 West Batesville Bypass Engineering Design, Panola County, Mississippi. Mississippi Department of Transportation**. Engineer. Responsibilities included generation of engineering design calculations, bridge geometry, bridge quantities, and conceptual through preliminary bridge design contract plans for five bridges. Michael Baker provided engineering services for the design of the S.R. 6 West Batesville Bypass, a new six-mile, four-lane, controlled-access highway with two interchanges. Michael Baker's services included field surveying, bridge hydraulic and structural design, and right-of-way plans.
03/12 - 04/13	**S.R. 178 Bridge Replacement Right-of-Way Plans, Itawamba County, Mississippi. Mississippi Department of Transportation**. Engineer. Responsibilities included generation of engineering and geometric design calculations, and development of final right-of-way bridge plans for eight bridges and two box bridge extensions. Michael Baker developed final right-of-way plans for replacement of eight bridges, extension of two box bridges, removal of one box bridge, and addition of a stream relocation and a new box bridge under a relocated local road. The roadways, totaling approximately seven miles along S.R. 178 between Clay and the Alabama State Line, were upgraded either to new construction standards or to 3R standards, depending on the locations. The project was divided into five sites. Three sites required detour roads, and two sites were temporarily closed to traffic. Michael Baker also performed all hydraulic analyses at the bridges and box bridges.
04/07 - 03/10	**Reunion Parkway over I-55 Interchange in Madison County, Mississippi. Madison County**. Project Manager. Responsibilities included project management duties and generation of engineering design calculations, bridge geometry, bridge quantities, and conceptual through final design contract plans. This project includes bridge and retaining wall design, as well as surveying for a Single Point Urban Interchange (SPUI) located at the intersection of I-55 and Reunion Parkway in Madison County, MS. The bridge is a curved steel box girder design.
09/06 - 03/10	**US 61 Intersection at Catherine Devereux Road, Adams County, Mississippi. Mississippi Department of Transportation.** Project Manager. Responsibilities included project management duties and generation of engineering design calculations, bridge geometry, bridge quantities, and conceptual through final design contract plans. This project consisted of preparation of Right-of-way and Construction Plans to reconstruct the intersection of US 61 at Catherine Devereux Road in Adams County, Mississippi. Michael Baker shared in the duty of bridge and MSE retaining wall design with the prime, ABMB Engineers.

Firm employed by **Michael Baker**				
Name	**Shalin Sheth, PE**		Years of relevant experience with this employer	➲ 3
Title	Bridge Engineer		Years of relevant experience with other employer(s)	➲ 4
Degree(s) / Years / Specialization			M.S. / 2019 / Civil Engineering B.S. / 2016 / Civil Engineering	
Active registration number / state / expiration date			PE.146736 / TX / 09/30/2025 PE.0048337 / LA / 03/31/2026	
Year registered	2022 2023	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**BRIDGE DESIGNER**	

Mr. Sheth will serve as a structural/bridge designer. His experience includes structural design bridge design, bridge load rating, bridge load testing, and project management, for a variety of projects. He has worked in the structural forensics field as an intern, before working as a bridge EI. He has experience with drafting and detailing bridge widening plans, along with structural designing of bridge components. His professional experience also includes load rating bridges of various types, performing field load testing of bridges, computing bridge quantities and cost estimates, preparing bridge rehabilitation plans, conducting GPR surveys of bridge decks, training junior engineers, and various administrative tasks.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/22 – Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, Louisiana. Louisiana Department of Transportation and Development**. Engineer Intern. Responsibilities include computation of engineering design calculations, determining structural feasibility of bridge geometry, structural design of all bridge components, computation of bridge quantities, and plan production at various preliminary and final submittal stages/milestones. The project consists of full-scale replacement of two railroad overpass bridges 3.7 miles apart on the same route of US 371, with three bridges. Michael Baker is providing transportation and bridge engineering services for this project as a lead consultant, while subconsultants Ardaman and Associates, and Vectura Consulting Services, are providing geotechnical and traffic control services respectively
07/19 - 08/22	**Macarthur Interchange Completion Phase II at US90-Z Eastbound, Jefferson Parish, Louisiana**. **Louisiana Department of Transportation and Development**. Engineer Intern. Responsibilities included structural analysis and girder capacity verification of prestressed concrete girders, developing spreadsheets and Mathcad files for computing development lengths and splice lengths, and deck reinforcement design. Further responsibilities included computing bridge quantities, girder riser elevations, riser thicknesses, deck elevations for the bridge, along with drafting CAD sheets in MicroStation for framing plans, pier cap details, and deck reinforcement plans in compliance with LADOTD standards. This project consisted of demolition of an off-ramp and an on-ramp, along with reconstruction of both at different locations in addition to new construction to facilitate bridge widening. SDR Engineering provided comprehensive transportation and bridge structural engineering services.
05/21 - 08/21	**Mermentau River Swing Span Truss Bridge Repairs at Grand Cheniere, Louisiana**. **Louisiana Department of Transportation and Development.** Engineer Intern. Responsibilities included preparing a structural rehabilitation solution to repair the steel truss member with structural deficiency, along with repair solutions for floorbeams and stringers using steel cover plates. Further responsibilities also included drafting and redrawing the fender system plans and railing repair plans and reviewing overall bridge repair quantities and the plan set. SDR Engineering provided the bridge inspection and load rating services in the preliminary stage, and later prepared repair and rehabilitation plans and procedures for the entire superstructure and substructure along with the fender system for the movable bridge span.
07/19 - 02/21	**Load Rating of 311 Bridges, Louisiana. Louisiana Department of Transportation and Development.** Engineer Intern. Responsibilities included load rating 51 bridges of various types such has concrete slab bridges, reinforced concrete girder bridges, prestressed girder bridges, prestressed and reinforced channel bridges, reinforced concrete culverts, and timber beams/timber trestle bridges. For a typical bridge, the load rating process involved developing and

	analyzing the superstructure structural model in AASHTOWare BrR, substructure structural model in RC Pier (now LEAP Bridge Concrete), and post processing the analysis results using Mathcad to effectively determine the load carrying capacity of the bridge (load rating factors) and accordingly recommending the posting load to LADOTD. This project's scope was initially the load rating of 311 bridges located across Louisiana, however later another 300+ bridges and culverts were added to the scope. SDR Engineering provided the load rating services for this project.
07/22 - 08/22	**Load Rating of 176 Bridges, Louisiana. Louisiana Department of Transportation and Development.** Engineer Intern. Responsibilities included performing load rating for a total of 43 culverts out of 176. The typical process mainly involved developing and analyzing the structural model for concrete box culverts in AASHTOWare BrR, and then preparing reports with load posting recommendations, if applicable. SDR Engineering provided the load rating services for this project.
07/22 - 08/22	**Load Rating of 114 Bridges, Louisiana. Louisiana Department of Transportation and Development**. Engineer Intern. Responsibilities included performing load rating for a historic steel beam bridge, and a prestressed concrete girder bridge. The typical load rating process involves modelling the superstructure and substructure in AASHTOWare BrR and LEAP Bridge Concrete respectively, along with compiling the load rating report. Further responsibilities included reviewing over 40 concrete slab bridges to be load rated by three junior engineer interns. SDR Engineering provided the load rating services for this project
08/20 - 09/20	**Bridge Deck Investigation using Ground Penetrating Radar (GPR) system, Louisiana. Louisiana Department of Transportation and Development**. Engineer Intern. Responsibilities included performing GPR investigation of bridge decks for 5 bridges across Louisiana using a vehicle mounted GPR setup provided by 3D-radar (now Kuntur), processing and analyzing scanned data, summarizing insights, and compiling reports regarding feasibility and usefulness of such an investigation. SDR Engineering provided the investigation services for this pilot GPR bridge deck evaluation project.

Firm employed by **Michael Baker**				
Name	**Layton R. Breithaupt, PE**		Years of relevant experience with this employer	➲ **6**
Title	Bridge Engineer		Years of relevant experience with other employer(s)	➲ **5**
Degree(s) / Years / Specialization			B.S. / 2018 / Civil Engineering A.A. / 2014 / Drafting and Design	
Active registration number / state / expiration date			PE.29138 / MS / 12/31/23 PE.0048097 / LA / 03/31/2026	
Year registered	2022 2023	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**BRIDGE DESIGNER**	

Mr. Breithaupt's main responsibility is to aide in the design of bridges. He has experience in designing bridges for Mississippi DOT, West Virginia DOT, and Georgia DOT. Mr. Breithaupt had internships that allowed him to hone in on drafting and design skills along with 3D modeling. He also had the opportunity to work on many LiDAR projects during the internships.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/22 – Ongoing	**Baldwin County River Road. Baldwin County Commission (AL).** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books.
08/22 - Ongoing	**I-55 from Mississippi Highway 24 to U.S. 98 in McComb, McComb, Mississippi. Mississippi Department of Transportation.** Civil Associate**.** Responsibilities included Phase C work which consisted of checking material orders and shop drawings. Michael Baker performed rehabilitation of I-55 from M.S. 24 to U.S. 98. Work included establishing leveled elevations for existing control while setting mobile LiDAR control along the roadway. LiDAR control points were set horizontally with RTK GPS then leveled through with a digital level. Survey operations were also required.
05/19 - 07/19	**I-79 Upgrade South Fairmont to Pleasant Valley Engineering Services, Marion County, West Virginia. West Virginia Department of Transportation, Division of Highways.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including substructure design, and checking of final bridge plans. Responsibilities also included generation of quantity calculations and design computation PDF books. Michael Baker provided engineering and environmental services for the widening of I-79 to six lanes, from 0.38 miles south of U.S. 250 (exit 132) to 0.25 miles north of C.R. 64 (exit 135). This two-phased project provided the preparation of construction plans and related documents and included the necessary NEPA services to facilitate project construction.
08/22 - Ongoing	**MDOT ON-CALL SERVICES 2021.Mississippi Department of Transportation.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books.
08/18 - 12/22	**Reunion Parkway Design Services Phase 3, Madison County, Mississippi. Madison County Board of Supervisors.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books. Michael Baker provided design services for two bridge sites along Phase 3 of the Reunion Parkway in Madison County, Mississippi. The scope included developing Phase B Final Bridge Plans for an 880-foot-long bridge over Bear Creek and a 530-foot-long bridge over the Illinois Central Railroad.

07/19 - Ongoing	**U.S. 49 Florence to Scales Construction Engineering and Inspection, Rankin County, Mississippi. Confidential Client.** Civil Associate**.** Responsible for QC of bridge quantities. Michael Baker provided engineering services, including field surveys, preliminary through final design, construction phase services, and public relations support, for the construction of U.S. 49 from Florence to the Scales Area. Working as an extension of client staff, Michael Baker provided construction management, Phase C Design (RFI/submittals), utility coordination, scheduling review (Primavera P6), material testing, erosion control, surveying, traffic control, and public relations support, for the construction of U.S. 49 from Florence to the Scale Area.
08/18 – 04/20	**Appalachian Corridor V Bridge Project, Itawamba County, Mississippi. Mississippi Department of Transportation.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books. Michael Baker provided design and engineering services for bridge hydraulics, conceptual and final bridge construction plans, and construction engineering services for four twin hydraulic bridge crossings on the Appalachian Corridor "V" alignment (S.R. 76) from Fairview to S.R. 23.
04/22 - Ongoing	**S.R. 9 Bridge Replacements, Calhoun County, Mississippi. Mississippi Department of Transportation.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books. Michael Baker provided engineering and design services for final bridge construction plans for four bridge replacements: Bridge No. 35.5 over Shutispear Creek, Bridge No. 40.7 over Yalobusha River Relief, Bridge No. 40.9 over Yalobusha River, and Bridge No. 41.2 over Yalobusha River Relief on S.R.9
07/20 – 12/20	**SR 601 Middle-Canal Road. Mississippi Department of Transportation.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books.
08/18 – 12/20	**2017 Roadway Design Services IDIQ Master Contract. Mississippi Department of Transportation.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books.
03/22 - Ongoing	**CHA CR486 Final. Georgia Department of Transportation.** Civil Associate**.** Responsibilities included the generation of bridge design calculations, including superstructure and substructure design, and checking of final bridge plans. Responsibilities also included generation of load rating reports, quantity calculations and design computation PDF books.

Firm employed by **Michael Baker**				
Name	**T. J. (Thomas) Holliday, III, PWS**		Years of relevant experience with this employer	➲ **15**
Title	Environmental Planning Manager		Years of relevant experience with other employer(s)	➲ **11**
Degree(s) / Years / Specialization			BS / 1998 / Civil Engineering / Delta State University	
Active registration number / state / expiration date			License No.: 2447 / N/A / N/A	
Year registered	2014	Discipline	Professional Wetland Scientist	
Contract role(s) / brief description of responsibilities			**ENVIRONMENTAL PROFESSIONAL**	

Mr. Holliday will serve as Environmental Professional for the environmental clearance and permitting of projects/task orders that require environmental services.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/22 - Ongoing	**H.015338 IIJA Off-System Bridges Program – District 07, Louisiana | DOTD.** Environmental Professional Lead. Oversaw the research by the environmental team for environmental constraints that could serve as a roadblock for the replacement of a bridge structure. The information gathered allowed the engineers to make decisions on which bridges structures should move forward in design based off these environmental constraints. The constraints included but not limited to the following: Archaeological Sites, NRHP, Pre-1971 La HBI, 71-85 NRHP, Tribal Lands, Wetlands, Scenic Stream, Levee Permit, Coastal Zone, T&E Species, Section 4(f) and 6(f) lands, Navigable Waterway, UST or Contaminated Sites, Potential Mitigation Cost, and Additional Environmental Permits. Project includes five parishes in District 07 for the replacement of existing off-system bridges. DOTD broke the project into an Initial Phase and a Final Design Phase. Project priorities were part of the initial phase that started in October 2022 and was finished and submitted in December 2022. District 07 was given $30.3 million dollars with allocations for each parish
08/22 - Ongoing	**Barksdale AFB Entrance Roads, Bossier Parish, Louisiana | NAVAC.** Environmental Professional Lead. Responsible for the procurement of environmental permits for the new entrance roads for Barksdale AFB. The project includes a new roundabout at the Air Force Base gates along with new 4-lane divided highway to tie into the new LA 1267 highway constructed by DOTD under the I-20/I-220 Design Build interchange improvements. Additional responsibilities include coordination with the U.S. Army Corps of Engineers and Bossier Parish Engineering Department. The project was broken into two separate construction plans (Rough Grade and Final Design) and required additional coordination with DOTD and USACE. The new roundabout is designed to be a multi-lane roundabout that accommodates the new LA 1267 spur of the I-20/220 interchange.
05/11 - Ongoing	**New Orleans Rail Gateway Environmental Impact Statement, Jefferson and Orleans Parishes, Louisiana. LADOTD.** Environmental Specialist. Conducted field studies and documented findings for wetlands and hazardous materials. Michael Baker is providing environmental and engineering services to develop an environmental impact statement for the New Orleans Rail Gateway, the fourth-largest freight and passenger rail gateway in the United States. Michael Baker's services include project management, review of previous studies, environmental resources investigations, geographic information system development, mapping, rail and roadway travel demand modeling, alternatives analyses, rail and roadway conceptual design, cost estimates, document preparation, stakeholder and agency coordination, and extensive public outreach.
01/10 – Ongoing	**Natural Environment Master for Wetland and Other Waters Assessments and T/E Species Surveys for Roadway and Bridge Improvements, Statewide, Mississippi. MDOT**. Environmental Professional Lead. Responsible for environmental studies and reporting. Under three consecutive three-year contracts, Michael Baker has conducted listed species surveys and assessments of potential impacts to wetlands and other waters related to the replacement of bridges and construction of other improvements along various roadways throughout the state. Services include data collection and analysis, site investigations, wetland delineations, and report preparation.

3/18 – 7/18	**Jackson County Bridges | Jackson County Road Department.** Environmental Professional Lead. Michael Baker assisted the Jackson County Road Department with Section 404 permit coordination for multiple bridge replacement and roadway improvement projects within the County. The project included four sites located along Old Fort Bayou Road, Juniper Drive, and Solomon Road. Michael Baker's services included data collection and analysis for wetlands and other waters of the U.S. and threatened and endangered species. The projects required coordination with the Mobile District US Army Corps of Engineers (USACE), US Fish and Wildlife Service (USFWS), MS Department of Marine Resources (MDMR), MS Department of Environmental Quality (MDEQ), and the MS Department of Archives and History (MDAH).
01/10 - 04-13	**S.R. 16 from S.R. 15 to S.R. 19 Bridge Design, Neshoba County, Mississippi. Mississippi Department of Transportation.** Environmental Specialist**.** Responsible for field surveys to identify wetlands and other waters of the U.S. and preparation of a jurisdictional findings report for 404 permitting process. Michael Baker provided engineering services for improvements to 10 miles of S.R. 16 from S.R. 15 to S.R. 19. Michael Baker's services included the Phase A preliminary bridge plans for eight bridges, including hydraulic design for three bridges and a railroad crossing bridge, and stream and wetland delineation.
10/08 - 07/15	**FM 521 Environmental Assessment, Texas. Texas Department of Transportation. Environmental Specialist**. Responsible for completion of the EA document and preparation of the FONSI. Assisted with public involvement activities. Michael Baker performed an environmental assessment (EA) for the reconstructing and widening of FM 521, an existing two-lane rural undivided facility, to a four-lane divided urban arterial from Beltway 8 to FM 2234 (McHard Road). The project also includes improvements on FM 2234 at FM 521 and proposed grade separations at the Union Pacific Railroad (UPRR) crossings on both FM 2234 and FM 521. Michael Baker's services included wetlands delineation and permitting, public involvement, community impacts assessment, indirect and cumulative impacts assessments, and a Section 4(f) analysis.
02/11 - 06/11	**Wetlands Delineation for S.R. 7 and S.R. 8 Bridge Replacements, Marshall, Benton, and Calhoun Counties, Mississippi. Mississippi Department of Transportation.** Environmental Specialist. Conducted wetland and other waters assessments for a bridge replacement and road improvements along S.R. 7 in Marshall and Benton Counties and S.R. 8 in Calhoun County. Prepared jurisdictional findings report for submittal to USACE for 404 permit evaluations. Michael Baker performed wetland assessments and delineations for the replacement of the bridges on S.R. 7 in Marshall and Benton counties and S.R. 8 in Calhoun County. Michael Baker's services included data collection and analysis, field investigations, wetland delineations and assessments, and report preparation.
03/11 - 07/11	**Wetland Delineations and Assessments for the S.R. 493, S.R. 19, and I-55 Interchange Bridge Replacements, Kemper, Lauderdale, and Madison Counties, Mississippi. Mississippi Department of Transportation.** Environmental Specialist. Conducted field studies and prepared jurisdictional findings report. Michael Baker performed wetland assessments and delineations for the replacement of the bridges on S.R. 493 in Kemper County, S.R. 19 in Lauderdale County, and at the I-55 interchange in Madison County. Michael Baker's services included data collection and analysis, field investigations, wetland delineations and assessments, and report preparation.
05/10 - 02/13	**S.R. 607 Improvements from Texas Flat Road to I-59, Hancock and Pearl River Counties, Mississippi. Mississippi Department of Transportation.** Environmental Specialist. Responsible for wetland and other waters of the U.S. delineation and reporting. Michael Baker provided engineering services for the widening of S.R. 607 to four lanes from Texas Flat Road to I-59, including the reconstruction of a bridge over Alligator Branch, the replacement of a bridge over Second Alligator Branch, and the replacement of a bridge over Indian Camp Creek.

Firm employed by **Michael Baker**					
Name	**Elizabeth Brock**		Years of relevant experience with this employer	➲ 5	
Title	Environmental Specialist		Years of relevant experience with other employer(s)	➲ 5	
Degree(s) / Years / Specialization			BS / 2010 / Environmental Science / University of Mary Washington		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			**ENVIRONMENTAL SPECIALIST**		
Ms. Brock will serve as Environmental Specialist for task orders that require environmental clearance and permitting.					

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
08/22 - Ongoing	**Barksdale AFB Entrance Roads, Bossier Parish, Louisiana | NAVAC**. Environmental Scientist. Responsible for the procurement of environmental permits for the new entrance roads for Barksdale AFB. The project includes a new roundabout at the Air Force Base gates along with new 4-lane divided highway to tie into the new LA 1267 highway constructed by DOTD under the I-20/I-220 Design Build interchange improvements. Additional responsibilities include coordination with the U.S. Army Corps of Engineers and Bossier Parish Engineering Department. The project was broken into two separate construction plans (Rough Grade and Final Design) and required additional coordination with DOTD and USACE. The new roundabout is designed to be a multi-lane roundabout that accommodates the new LA 1267 spur of the I-20/220 interchange.
11/22 – Ongoing	**Runway 31 Approach Obstruction and Acquisition, Hammond, Louisiana | City of Hammond, LA**. Environmental Scientist. Responsible for environmental services. Michael Baker provided professional services associated with the development and submittal of the necessary NEPA Documentation in the form of a short form Environmental Assessment for the Runway 31 Approach Obstruction Mitigation project at Hammond Northshore Regional Airport.
11/21 – Ongoing	**Heart of Georgia Taxiway A Rehabilitation Categorical Exclusion, Eastman, Georgia | Heart of Georgia Regional Airport Authority.** Environmental Scientist. Assisted with environmental services. Michael Baker provided engineering and environmental services for the rehabilitation of Taxiway A for Runway 02-20, which has a length of 6,500 feet and a width of 50 feet. Rehabilitation will include milling of the existing surface, crack/joint sealing, placement of new HMA surface, and pavement markings. Michael Baker conducted the technical studies necessary to prepare NEPA documentation, which included a review for wetland impacts.
03/19 – 01/21	**Lemoyne Boulevard Erosion Control, St. Martin, Mississippi. Jackson County Board of Supervisors.** Environmental Scientist. Responsible for assisting with environmental services. Michael Baker provided professional services associated with performing a detailed drainage study for new erosion control improvements to an existing open channel drainage way located north of Lemoyne Boulevard in the St. Martin Community. The purpose of the drainage and erosion control study was to provide recommendations to the stormwater drainage channel to address channel re-alignment and implement new erosion control measures to mitigation channel migration and sedimentation of channel banks and bottom.
08/19 – 09/19	**Padgett Switch Road Resurfacing, Restoration, and Rehabilitation (RRR), Mobile County, Alabama. Mobile County Engineering Department.** Environmental Scientist. Assisted with environmental services. Michael Baker provided engineering services for the rehabilitation of Padgett Switch Road from Highway 90 to Half Mile Road. Michael Baker's services include design, bidding-phase support, and construction services for grading, drainage, base, and paving of the roads. The project was funded by the 2016 Pay-As-You-Go funding program.
03/19 – 06/19	**Saline and Caddo River Bridges Design Services, Pike, Howard, and Sevier Counties, Arkansas. Arkansas Department of Transportation.** Environmental Specialist. Responsible for environmental services. Michael Baker provided roadway and bridge design for the replacement of three bridges in Sevier, Pike, and Howard counties in Arkansas. Individual sites on the project include Highway 70 over the Caddo River, Highway 70 over the Saline River, and Highway 278 over the Saline River. Michael Baker provided plans for the replacement of the bridges and approaches and hydraulic and geotechnical studies and completed the environmental clearance documentation at all locations.

04/19 – 08/19	**Bush Lane and Carol Plantation Road Resurfacing, Restoration, and Rehabilitation, Mobile, Alabama. Mobile County Engineering Department.** Environmental Scientist. Responsible for assisting with environmental services. Michael Baker is performing engineering services for a resurfacing, restoration, and rehabilitation project on Bush Lane and Carol Plantation Road. Michael Baker is developing reports, plans, and calculations to support 50%, 90%, and 100% design review submissions. Major items of work include preliminary and final design plans; safety audit; preliminary and final cost estimates; and construction administration.
10/19 – 11/19	**S.R. 27 over Big Black River Replacement Project, Warren and Hinds Counties, Mississippi. Mississippi Department of Transportation.** Environmental Scientist. Responsible for conducting environmental investigations necessary to prepare the Wetland Delineation in support of the proposed project to replace the existing bridge (Bridge # 117.9) over Big Black River along S.R. 27, in Hinds and Warren County, Mississippi. Michael Baker provided engineering services to assess potential impacts to wetlands and other waters resulting from the replacement of the bridge on S.R. 27 over Big Black River. For the project, Michael Baker reviewed the project plans for the bridge replacement site as well as aerial photography and other mapping of the project area. Michael Baker conducted field investigations in the project area to locate, identify, and delineate wetlands and waters of the United States in accordance with the USACE 1987 Wetland Delineation Manual and 2010 Regional Supplement guidance. It also mapped jurisdictional wetland areas and prepared technical reports.
09/19 – 11/19	**S.R. 12 over Moccasin Creek Bridge Replacement Project, Lexington, Mississippi. Mississippi Department of Transportation.** Environmental Scientist. Responsible for conducting environmental investigations necessary to prepare the Wetland Delineation in support of the proposed project to replace the existing bridge (Bridge # 69.2) over Moccasin Creek along S.R. 12 in the city of Lexington in Holmes County, Mississippi. Michael Baker provided engineering services to assess potential impacts to wetlands and other waters resulting from the replacement of a bridge over Moccasin Creek on S.R. 12. For the project, Michael Baker reviewed the project plans for the bridge replacement site as well as aerial photography and other mapping of the project area. Michael Baker conducted field investigations in the project area to locate, identify, and delineate wetlands and waters of the United States in accordance with the USACE 1987 Wetland Delineation Manual and 2010 Regional Supplement guidance. Additionally, Michael Baker provided wetland mapping and a technical report.
06/20 – 07/20	**S.R. 8 Bridge Replacement Wetland Assessment, Sunflower County, Mississippi. Mississippi Department of Transportation.** Environmental Scientist. Responsible for conducting environmental investigations necessary to prepare the Wetland Delineation in support of the proposed project in Sunflower County, Mississippi. Michael Baker provided engineering services to assess potential impacts to wetlands and other waters resulting from the replacement of a bridge over the Quiver River on S.R.8. Michael Baker reviewed the project plans for the bridge replacement site as well as aerial photography and other mapping of the project area. It then conducted a field investigation in the project area to locate, identify, and delineate wetlands and waters of the United States in accordance with the USACE 1987 Wetland Delineation Manual and 2010 Regional Supplement guidance. Michael Baker also performed wetlands mapping and provided a technical report.
07/20 – 08/20	**S.R. 28 over Boles Creek Wetland Assessment, Jefferson County, Mississippi. Mississippi Department of Transportation.** Environmental Scientist. Responsible for conducting environmental investigations necessary to prepare the Wetland Delineation in support of the proposed project in Jefferson County, Mississippi. Michael Baker provided engineering services to assess potential impacts to wetlands and other waters resulting from the replacement of bridges over an abandoned railroad and over Boles Creek on S.R. 28. Michael Baker compiled and analyzed preliminary information regarding the project sites, including color infrared aerial photography, soil surveys, design plans for the roadway, and other readily available information. It then a performed site investigation to delineate wetlands and other waters of the United States, completed data forms, and took representative photographs of identified resources.
08/20 – 11/20 **01/22 – 02/22**	**S.R. 601 Canal Road Wetlands Assessment, Harrison County, Mississippi. Mississippi Department of Transportation.** Environmental Scientist. Responsible for conducting environmental investigations necessary to prepare the Wetland Delineation in support of the proposed project in the City of Gulfport in Harrison County, Mississippi. Michael Baker provided engineering services to assess potential impacts to wetlands and other waters resulting from the construction of a new road to connect southern Gulfport to I-10. For the project, Michael Baker compiled and analyzed preliminary information regarding the project sites, including color infrared aerial photography, soil surveys, design plans for the roadway, and other readily available information. It then performed site investigations to delineate wetlands and other waters of the United States, completed data forms, and took representative photographs of identified resources.

Firm employed by **Michael Baker**				
Name	**Mary Flynn, PE**		Years of relevant experience with this employer	➲ 12
Title	Associate Vice President		Years of relevant experience with other employer(s)	➲ 15
Degree(s) / Years / Specialization			B.S. / 1997 / Civil Engineering & Surveying	
Active registration number / state / expiration date			PE.0036931 / Louisiana / 09-30-2026	
Year registered	2012	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**CONSTRUCTION SERVICES SUPPORT**	

Ms. Flynn is a local Engineer who will serve as Project Manager for the IDIQ and will serve as one of the Project Engineers on task order. She brings 25 years of experience providing CE&I/OV services, including the last 8 years as PM and Project Engineer on 3 LADOTD CE&I IDIQ contracts, including both full CE&I (8 task orders) and staff augmentation (2 task orders).

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/20 - Ongoing	**IDIQ Contract for Construction Engineering and Inspection Services for Safety Projects (CE&I) District 61, 62, and 02. LADOTD.** Project Manager/Project Engineer. As a PM of the IDIQ, Ms. Flynn was responsible for providing job classifications for LADOTD's Specific Rates of Compensation, developing the QA/QC Plan for the IDIQ, review of engineering drawings and estimates on Falcon for developing consultant fee estimate for labor and direct expenses on each Task Order, and reviewing contract scope from the Project Manager for each Task Order prior to sending to CCS. As Project Engineer, Ms. Flynn is responsible for contract administration/project management, construction engineering, and managing inspection staff for all construction activities under full-service Task Orders (TO). Duties include project and utility coordination, review contractors schedule, manage preconstruction and periodic meetings with contractor, LADOTD, and Entity Responsible Charge, development of TO sampling plan as needed, verifying accuracy of field records and documentation, field inspection audit of work and traffic control, equipping inspection staff appropriately for testing and documentation per needs of TO, verify and approve monthly and final estimates, developing As-Built plans, developing Change Order for LADOTD approval, manage RFI and claims process utilizing LADOTD established forms, disseminating press releases, and performing any other engineering function as requested by the AE. **H.013271.6 Task Order 1: Tangipahoa PH Local Road Safety Upgrade, Tangipahoa Parish, Louisiana**. The project consists of upgrading signage, refreshing pavement markings, and installation of solar powered flashing beacons, on various local roads in Tangipahoa Parish. Substantially complete. **H.013532.6: Task Order 2: Denham Springs Rd Signing & Striping, Livingston Parish, Louisiana**. The project consisted of upgrading signage, refreshing pavement markings, closure of two (2) boulevard median turn areas, and related work on various local roads. Project complete. **H.012473.6: Task Order 3: Marconi Dr Shared-Use Path, Orleans Parish, Louisiana**. The project consisted of, installing a 10' wide shared-use path and raised composite wood boardwalk, striping and signage within New Orleans City Park. Substantially complete. **H.009308.6: Task Order 4: New Orleans DPW SRTS Sidewalk Project, Orleans Parish, Louisiana**. The project is part of the "Safe Routes to School" program, involving safety upgrades to five schools in the Orleans Parish area. Components include shared-use path, sidewalks, ADA crossings, traffic signalization and related work. Estimated Completion 09/2022. **H.012527.6: Task Order 5: Local Road Safety Upgrades (W. Feliciana), West Feliciana Parish, Louisiana**. The project consists predominately of replacing outdated and damaged guardrail, signage and striping on 10 routes within the parish. Substantially complete. **H.013082.6: Task Order 6: Bootlegger Road Sidewalk Project, St. Tammany Parish, Louisiana**. The project consisted of upgrading open ditch in a residential area with CPVC pipe, backfill and sidewalks with ADA compliant ramps. Project is complete.
03/19 – Ongoing	**IDIQ Contract for CE&I with Majority of Work in District 07, Statewide, LA. LADOTD.** Project Manager. As a Project Manager of the IDIQ, Ms. Flynn was responsible for providing job classifications for LADOTD's Specific Rates of Compensation, developing the QA/QC Plan for the IDIQ, review of engineering drawings and estimates on Falcon for developing consultant fee estimate for labor and direct expenses on each Task Order, and reviewing contract scope from the Project Manager for each Task Order prior to sending to CCS.

	H.010916.6 Task Order 1: Prien Lake Re-Deck & Safety Improvements, Calcasieu Parish, LA. LADOTD. Project Manager. As part of a Staff Augmentation Services task order, Ms. Flynn was the Project Manager for this re-decking project. Her responsibilities were to provide the LADOTD with certified inspection staff and qualified office management staff to successfully complete the project. Maintained regular communication with the LADOTD Project Engineer to make sure his needs were met. Task order complete **H.012018 Task Order 2: Adaptive Traffic Signal Design and Implementation, Lafayette Parish, LA. LADOTD**. Project Manager / Project Engineer. As part of a full services CE&I task order, Ms. Flynn was responsible for Project Management and Project Engineering for this ITS Project. Ms. Flynn is responsible for contract administration/project management, construction engineering, and managing inspection staff for all construction activity. Duties include project, utility and local Entity coordination, providing contractor with NTP, manage preconstruction and periodic meetings, development of TO sampling plan, verifying inspectors maintain accurate field records and material documentation within SiteManager, equipping inspection staff appropriately for testing and documentation per needs of TO, verify and approve monthly and final estimate, developing As-Built plans, developing and circulating Change Orders, manage the RFI process utilizing LADOTD established forms, disseminating press releases as needed, verifying traffic control plans are according to MUTCD, and performing any other engineering function as requested by the Area Engineer (AE). Anticipated field work complete 09/2022. **H.003184.6 Task Order 3: I-10: Texas State Line – E. of Coone Gully, Calcasieu Parish, LA. LADOTD**. Michael Baker Project Manager. As part of a Staff Augmentation Services task order, Ms. Flynn was the MBI Project Manager for this interstate widening project. Her responsibilities were to provide the LADOTD with certified inspection staff for structures, drainage installation, PCC Paving, and electrical work to successfully complete the project. She maintains regular communication with the LADOTD PM and Project Engineer to make sure project needs are met. Anticipate TO completion 03/2024.
03/13 – 06/18	**IDIQ Retainer Contract for Design-Build Support Services, Statewide, Louisiana. LADOTD.** **Task Order 1: Statewide Construction Quality Assurance Plan (CQAP), Statewide, Louisiana. LADOTD**. Project Manager. Task order was to develop a CQAP for statewide use on Design-Build Projects. Ms. Flynn was responsible for drafting the Plan, meeting with FHWA, LADOTD and other stakeholders to review and obtain comments, meet with TxDOT staff to discuss their QAP recommendations, and modify document until accepted by FHWA. **Task Order 2: CQAP Sharepoint Database, LADOTD**. Project Manager. Task involved providing a Design-Build CQAP Database Development relative to the US 90 Design Build Project that ran statistical analysis' on specified materials. **H.010620.6 Task Order 3: US 90 (I-49 South), Albertson's Parkway to Ambassador Caffery, Design-Build Owner Verification, Lafayette Parish, LA. LADOTD.** Owner Verification Manager/Project Engineer. Responsible for contract administration/project management, construction engineering, and managing quality inspection and materials sampling and testing for all phases of construction, verification of activities and testing per CQMP, including new structure construction (AASHTO girder and steel plate girder), existing structure replacement/widening, fabrication of precast girders and MSE wall panels, MSE wall installation utilizing both straps and geogrid, full depth asphalt roadway, embankment and base course. She was also responsible for statistically validating test data according to the CQAP and tracking of Michael Baker inspection and testing within the LADOTD's SharePoint Database for design-build projects, reviewing and responding to RFI's and NCR's, reviewing plans and shop drawings, verifying test data for material acceptance,
01/12 – 01/13	**H.003046: I-10 Widening, Siegen to Highland, Design-Build OV, Baton Rouge, LA. LADOTD**. As Assistant Project Engineer/Assistant Project Manager. On this full-service CE&I task order, Ms. Flynn was responsible for contract administration, construction engineering, review of shop drawings and as-built plans, and supervision of inspection and materials sampling and testing for all phases of construction. Ms. Flynn verified inspector daily entries in SiteManager were accurate, thorough, and up to date.

Vectura Consulting Services, LLC Resumes

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Sheelagh Brin Ferlito, PE, PTOE**		Years of relevant experience with this employer	➲ 7
Title	Principal		Years of relevant experience with other employer(s)	➲ 27
Degree(s) / Years / Specialization			BS / 1988 / Civil Engineering	
Active registration number / state / expiration date			PE.0025383 / LA 09-30-2025	
Year registered	1993	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**TRAFFIC CONTROL DESIGN, TRAFFIC SIGNAL ANALYSIS AND DESIGN, TMPs, PEER REVIEWS**	

Ms. Ferlito will serve as QA/QC reviewer for traffic signal plans, traffic control design and for Traffic Management Plans. She brings 34 years experience in traffic engineering to the team.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/21 - Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA.** Brin is the Task Leaders for Vectura for the **Construction Engineering and Inspection** of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
07/19 – Current	**MOVEBR New Capacity Projects Program Management, Baton Rouge, LA.** Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.
07/19 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP, Belle Chasse, LA.** Brin is the Project Manager for the **temporary and permanent traffic signal plans** for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by Louisiana DOTD. She coordinated the detour plans based on the sequence of construction as part of the **Level 2 Transportation Management Plan (TMP**).
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA.** Brin is the Project Manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at the Tanger Boulevard. Vectura also developed **signal timing plans** for each phase of the construction to maintain progression along LA 30.
02/20 – 11/21	**H.010616 DOTD I:20 LA 544 Overpass Replacement, Ruston, LA.** Brin is the Project Manager for the **Transportation Management Plan (TMP)** as part of a design for a bridge replacement and three roundabouts in Ruston, LA. The TMP was a **Level 2** and included evaluation of 10 Sequence of Construction Phases. Detours included rerouting traffic to other interchanges at nighttime only, rerouting traffic from I-20 to the off ramp and on ramp at nighttime only, and rerouting traffic to service roads in vicinity of the project. Brin coordinated the queue analysis with DOTD to determine when lane closures would be allowed utilizing 24-hour tube counts. She will also coordinate the development of temporary traffic signal plans for this project as well.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design, West Baton Rouge Parish, Addis, LA.** Brin developed a Pedestrian Crosswalk Study and **Traffic Signal Construction Plans** for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17 – 04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design, Slidell, LA.** Brin developed a formal traffic study for a proposed crosswalk with pedestrian **traffic signal equipment and pedestrian clearance timings** based on DOTD requirements.

	Brin assisted with vehicle and pedestrian data collection, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of **Traffic Signal Modification Plans** were developed to implement the recommended alternative.
04/14 – 12/14	**H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project, Baton Rouge, LA.** As the Project Engineer, Brin **designed three signalized intersections** as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12 – 03/14	**EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, LA.** Brin was the Project Resident Engineer on behalf of EBR **for performing CE&I services** for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM/EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08 – 09/09	**SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, LA.** Brin was the Project Resident Engineer for DOTD and EBR to perform **CE&I services** for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
09/13 – 04/14	**S.P. 700-99-0477 Jefferson Hwy. Signal Design, Baton Rouge, LA.** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included **traffic signal synchronization signal timing** and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans and specifications.
03/05 – 11/05	**Airline Hwy Widening SPN 700-99-0332, Baton Rouge, LA.** Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included traffic signal equipment, **signal synchronization timing**, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.
02/03 – 01/04	**EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172, Baton Rouge, LA.** Brin was the Project Engineer for the **design of 66 signalized intersections** on eight arterials in Baton Rouge which included traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Laurence Lucius Lambert, II, PE, PTOE, PTP**		Years of relevant experience with this employer	➲ **8**
Title	Supervisor		Years of relevant experience with other employer(s)	➲ **18**
Degree(s) / Years / Specialization			BS / 1997 / Civil Engineering MS / 2006 / Civil Engineering MBA / 2010	
Active registration number / state / expiration date			PE.0029901 / LA / 03-31-2026	
Year registered	2002	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**TRAFFIC CONTROL DESIGN, STRIPING, TMPs, PEER REVIEWS**	

Mr. Lambert will serve as supervisory engineer overseeing the development of Traffic Management Plans along with traffic signal plans, traffic control, and signing and striping plans.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/21 – 02/22	**H.013267 Capital Area Pathways Project, Baton Rouge, LA.** Laurence was Project Manager for a traffic study to evaluate trail crossings at three state routes that required DOTD approval. The **traffic study** included traffic data collection, safety analysis, existing conditions analysis and alternative analysis. Laurence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA guidance to develop the most effective trail crossing alternatives.
02/21 – 03/21	**H.013256.5 I-10 ITS Scott to Lake Charles, Southwest LA.** Laurence was the Lead Traffic Engineer for a Level 2 **Traffic Management Plan** (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales, Ascension, LA.** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St., Vernon Parish, LA.** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA.** Laurence was the Project Manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, **approval from DOTD was required**. After the 7-day, 24-hour counts were collected in March of 2020, DOTD stopped all data collection due to the impacts of COVID-19. After a pause of a year, Vectura closely worked with the City of Baton Rouge and DOTD to provide sufficient data that traffic patterns were returning to pre-COVID conditions and allowed PM peak hour data to be collected. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
10/17 – 10/18	**H.013025 LA 182 (University Avenue) Corridor Planning Study, Lafayette, LA.** Laurence was the Lead Traffic Engineer for a **Corridor Planning Study** for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to **develop growth rates and design year volumes**. Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a **safety analyses** of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.

09/16 – 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, LA.** Laurence was the Lead Traffic Engineer for a **DOTD traffic study** for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, **collected 7-day, 24-hour counts** w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM **traffic simulation model** of the preferred alternative
07/16 – 01/17	**Federal Highway Administration Intersection & Interchange Geometrics (IIG): Innovative Design Considerations for All Users**. At the request of the FHWA division office for Virginia, Laurence was asked to review a set of design plans for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
04/11 – 09/11	**SPN 424-04-0032 US 90 at Louisiana 85 Design-Build Maintenance of Traffic Plan, Iberia Parish, LA.** Lead Traffic Engineer**.** Laurence developed a **Maintenance of Traffic** plan that accommodated the bridge and road widening, but also maintain passage of large trucks and freight through the heavily travelled corridor crucial for agricultural goods and farming. Laurence was the Lead Traffic Engineer for one of the first design-build projects undertaken by DOTD, which included the construction of a grade separated, diamond interchange to replace the existing US 90 intersections with Louisiana 85 in Iberia Parish to upgrade this future I-49 corridor to interstate standards.
06/10 – 10/10	**SPN 454-02-0071 I-12 Widening Design-Build Amite River Bridge to Juban Road Maintenance of Traffic Plan, Livingston Parish, LA.** Laurence was responsible for designing a **Maintenance of Traffic** plan that would keep drivers informed of real time traffic situations through a comprehensive traffic management system. Four lanes (two lanes in each direction) were to remain open during peak travel times throughout the length of the project. Temporary lane closures only occurred at night.
09/06 – 09/07	**EBR 06-CS-HC-00012 Downtown Baton Rouge Signal Project, Baton Rouge, LA.** Laurence was the Project Manager to develop **construction plans to upgrade 29 signals** in downtown Baton Rouge as part of the EBR Green Light Plan. He coordinated numerous utility conflicts during construction since current utility plans were not readily available in an old part of town. He made several signal pole foundation location adjustments based on numerous field visits with utility companies.
07/14 - 01/17	**FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users (Multiple States)** FHWA funded workshops for state Departments of Transportation that were interested in learning more about innovative intersection & interchange design. Laurence presented either part or all the one-day or two-day workshops that included modules on the overall policy and goals of FHWA for these types of innovations, roundabouts, roundabout interchanges, DLTs, DDIs, J-turns / Superstreets, MUT, Thru-turns, quadrant, and the assessment tools (CAP-X) available to compare the measures of effectiveness of each innovation. Each module includes sections on design, traffic operations, safety and multi-modal accommodation Laurence has presented for the Alabama, Kentucky, Ohio, Oklahoma, Massachusetts, Tennessee, and Texas Departments of Transportation under this contract.
09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA** Laurence assisted in the development of a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.
06/16 - 09/17	**H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA)** Laurence performed a Stage 0 Feasibility Study for roundabouts at ten intersections in the Lafayette area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification, turning movement counts for peak periods and speed data for mainlines. Once the traffic data was collected, Laurence performed traffic signal warrants analyses, performed a Sidra unsignalized, signalized and roundabout analyses. After the analyses were completed, Laurence developed a report that captured the results.

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Reece Rodrigue, PE, PTOE**		Years of relevant experience with this employer	➲ 3
Title	Project Traffic Engineer		Years of relevant experience with other employer(s)	➲ 7
Degree(s) / Years / Specialization			B.S. / 2013 / Civil Engineering	
Active registration number / state / expiration date			PE.0042074 / LA / 03-31-2026	
Year registered	2017	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**PROJECT ENGINEER for TRAFFIC CONTROL DESIGN, TRAFFIC SIGNAL ANALYSIS AND DESIGN, TMPs, PEER REVIEWS**	

Mr. Rodrigue will serve as a project engineer for the development of traffic signal plans, development of traffic control plans and traffic management plans.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/21 - Ongoing	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA.** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This projected included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
07/21 - Ongoing	**H.007160 - EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA.** Reece is part of the team responsible for **Construction Engineering and Inspection**. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
01/21 – 05/21	**H.013256 - I-10 ITS Scott to Lake Charles, Lafayette, Acadia, and Jefferson Davis Parishes, LA..** Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using **DOTD's Bid Tabulation and Cost Estimating Tool**.
09/20 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St., Vernon Parish, LA.** Reece was a Project Engineer, who participated in the production of the temporary **signal design** associated with the **sequence of construction** for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA.** Reece was a Project Engineer, who assisted in the production of the temporary **signal design** associated with the **sequence of construction** for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
04/20 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Belle Chasse, LA.** Reece is the Project Engineer who **designed the temporary traffic signal** for the intersection of LA 23 at Engineers Rd. The design of the temporary signals is set for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan, which were also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for the production of permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated STOP bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the

	wiring layout, and developed the interconnect plan. Reece maintains correspondence with the fellow design engineering team for product consistency. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.
04/21 - Ongoing	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA.** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA.** Reece was the Task Leader for organizing and formatting the **data collection** of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
07/19 – 12/19	**Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA.** Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16 – 12/16	**H.005733.5 US 190 Superstreet Task Order, St. Tammany Parish, LA.** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the **preliminary plans using CAD** software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16 – 11/17	**Ochsner Main Campus Traffic Signals, Jefferson Parish, LA.** Reece served as a Design Engineer for the **traffic signal plans** for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.
10/16 – 05/17	**Loyola Interchange Modification Request, Kenner, LA.** Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Dr. Interchange. He was an active member in collecting vehicle travel time data and processing the data. He also aided in collecting vehicle queues at the study intersections. He also assisted in the Vissim model calibration.
02/15 – 12/15	**H.011646 Retainer Contract for DOTD District 02 Traffic Signal Inventories - Nola 3.** Reece served as the lead engineer in the production of the traffic study for the District 02 Traffic Signal Inventories. The objective was to effectively correct the progression of traffic through the US 90 (Broad St) corridor. He reviewed vehicle crash data at all intersections in the study scope. He conducted travel time runs. He created a model with existing traffic signal timing information using Synchro 8 Software. He recommended traffic signal pedestrian clearance times and yellow and red clearance times for each intersection. He used MicroStation V8i when designing traffic signal plans in DOTD's TSI format.

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Kristen Gahagan Farrington, PE, PTOE**		Years of relevant experience with this employer	➲ 3
Title	Project Traffic Engineer		Years of relevant experience with other employer(s)	➲ 7
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering	
Active registration number / state / expiration date			PE.0042785 / LA / 03-31-2025	
Year registered	2018	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**PROJECT ENGINEER for TRAFFIC CONTROL DESIGN, TRAFFIC SIGNAL ANALYSIS AND DESIGN, TMPs, PEER REVIEWS**	

Ms. Farrington will serve as a project engineer for the development of traffic signal plans, development of traffic control plans, traffic management plans, and signing and striping plans.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
12/21 – Ongoing	**H.012030.5 US 371 KCS RR Overpasses HBI, Webster Parish, LA.** Kristen was the project engineer to design permanent pavement marking and signing sheets for the construction plans in MicroStation. She will also participate in the QC of the sequence of construction and detour route.
04/21 - Ongoing	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project, Baton Rouge, LA.** Kristen a project engineer for a traffic design study and traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
08/21 – 04/22	**H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study, Baton Rouge, LA.** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting vehicular speed and volume data at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area.
02/20 – 09/21	**MOVEBR College Drive Enhancement Project, Baton Rouge, LA.** Kristen assisted with the data collection task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
6/19 - 2/21	**H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street, St. Landry Parish, LA.** Kristen served as project manager for a Stage 0 study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
6/19 - 2/21	**H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road, Evangeline Parish, LA.** Kristen served as project manager for a Stage 0 study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.

06/21 – 02/22	**H.013267 Capital Area Pathways Project, Baton Rouge, LA.** Kristen was a Project Engineer for a traffic study to evaluate trail crossings at three state routes that required DOTD approval. The **traffic design study** included traffic data collection, safety analysis, existing conditions analysis and alternative analysis. Laurence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA guidance to develop the most effective trail crossing alternatives.
04/19 – 06/21	**H.013817.1 LA 117 Improvements Stage 0, Vernon and Natchitoches Parishes, LA.** Kristen served as Project Engineer responsible for a **Stage 0** study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the **Stage 0** report and coordinated with stakeholders and local agencies to ensure purpose and need of project is met.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0, Ascension Parish, LA.** Kristen was the Task Leader for the preparation of a **Stage 0** study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the **Stage 0** Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18 - 3/21	**H.013322 LA 3040 Feasibility / Safety Study Stage 0, Houma, LA.** Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, LA.** Kristen was the Project Engineer responsible for crash and safety analysis, report writing, planning, and designing for this **Stage 0** Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 (LA 74 to LA 621), Ascension Parish, LA.** Kristen was the Designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
11/16 – 07/17	**H.001271 Cane River Bridge Church Street Route LA 1-X Environmental Assessment.** Kristen was the project engineer responsible for assisting with the site visits, data organization, analysis of permanent alternatives and traffic control alternatives, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement

SJB Group, LLC Resumes

Firm employed by **SJB Group, LLC**				
Name	**Matthew Estopinal, PE, PLS**		Years of relevant experience with this employer	➲ **3**
Title	CEO/Principal-in-Charge		Years of relevant experience with other employer(s)	➲ **15**
Degree(s) / Years / Specialization			B.S. / 2009 / Civil Engineering B.S. / 1996 / Microbiology	
Active registration number / state / expiration date			PE.0039151 / Louisiana / 3/31/2025 PLS.0004955 / Louisiana / 3/31/2025	
Year registered	2014 2006	Discipline	Civil and Land Surveying	
Contract role(s) / brief description of responsibilities			**MPR 4. SURVEY QA/QC MANAGER**	

Mr. Estopinal has 17 years of experience as a PLS in Louisiana managing transportation and community development related projects for private clients, MoveBR, and LA DOTD. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/23 – 09/23	**LA DOTD Project No. H.017322.5 – Morgan City Sidewalks & Shared Use Path, St. Mary Parish, LA.** QA/QC. SJB Group performed as a sub to Digital Engineering to conduct Right-of-Way Mapping, Topographic Survey, and Subsurface Utility Engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other related work in Morgan City. Limits included Everett Street from Front Street to 4th Street, 4th Street from Everett Street to Barrow Street, and Myrtle Street from Youngs Road to Auditorium Drive. In the performance of this contract the existing right-of-way of twenty streets, one state highway right-of-way, and an irregular railroad right-of-way was determined at two crossing locations. All surveying was performed to LADOTD Location & Survey Section requirements.
03/22 – 08/23	**LA DOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements.** QA/QC. The SJB Group team conducted a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 (Ryan Street) near the campus of McNeese State University. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location & Survey Section requirements.
07/21 – 08/23	**LA DOTD Project No. H.004100.5 – I-10: LA 415 to Essen on I-10 and I-12.** QA/QC. SJB Group provided a Property Survey and extensive Right-of-Way Mapping for approximately 4 miles of I-10 as well as multiple intersecting streets, for which a property map was created that encompassed the parcels affected by acquisition and accessibility. The project also included the creation of Base Right-of-Way Maps; Final Right-of-Way Map set of original matte films; drawing files; along with a pdf copy of the Full Title Research Report with affected parcel number and an ASCII parcel input file descriptions for approximately 125 parcels.
11/22 – 04/23	**City-Parish Project No. 20-CP-US-0099 – MoveBR – Airline Highway North (Florida Boulevard to I-110).** QA/QC. Sub to Huval and Associates. SJB Group conducted Corridor LiDAR Survey and Quality Level "D" Subsurface Utility Engineering services on portions of northbound Airline Highway between Florida Boulevard and I-110 for the proposed improvements of the four-lane divided arterial to increase capacity and safety in the area as well as improve pedestrian movement through the corridor. Mobile LiDAR Data was gathered using a Trimble MX50, LadyBug, NovAtel Positioning, and Velodyne LiDAR. SUE data was collected using a combination of Ground-Penetrating Radar, air-assisted vacuum excavation, Electromagnetic Pipe and Cable locators, and other non-destructive detection equipment. All surveying was performed to LADOTD Location & Survey Section requirements, and all Subsurface Utility Engineering was completed to ASCE 38-02 standards.

11/21 – 12/21	**Conway Development Topographic Survey.** Project Manager. Sub to Novus Reb Engineering. This project involved a Topographic Survey of a tract in the Conway development and was limited to running cross-sections through the project limits. Shots were taken with the use of a robotic total station and 360d prism mounted on a closed cab UTV. Horizontal and vertical control was established at the site with Leica SmartNET RTN. All surveying was performed to LADOTD Location & Survey Section requirements.
3/22 - Ongoing	**The Settlement on Shoe Creek – Phase 2 of 3.** QA/QC. SJB Group provided professional engineering and land surveying services for The Settlement on Shoe Creek for development phase 2 of 3, which covers approximately 225 residential lots. This included Topographic Surveys, preliminary plats, ALTA surveys, As-Built Surveys, LOMR-F preparation and submission, and final plats. Project control was established using a Leica HxGN SmartNet as an RTN. All surveying was performed according the rules and regulations set forth by the Louisiana Professional Engineering and Land Surveying Board.
02/22 – 06/22	**LA DOTD Project No. H.014752.5 – LA 3021: Dual Turn Lanes @ LA 38, Orleans Parish, LA.** Project Manager / QA/QC**.** LA DOTD tasked SJB Group to perform a topographic survey in Orleans Parish, Louisiana. The survey was located at the intersection of LA 39 (N. Claiborne Ave.) and LA 46 (Elysian Fields Ave.), and included all utilities with depths, drainage, and finish floor elevations of all buildings within the survey limits. The project had a total linear distance of approximately 3,600 feet
06/21 – 10/21	**LA DOTD Project No. H.007963 – Blackwater Bayou Bridge, East Baton Rouge Parish, LA.** Project Manager / QA/QC**.** Prime contractor. This project required replacement of the Bayou River Bridge and a diversion road during construction along LA Hwy 410 in East Baton Rouge Parish near the City/Town of Central. SJB Group was tasked through Retainer Contract No. 4400016018 to prepare Right-of-Way maps. The initial property survey, right-of-way maps, and title take-offs were done by SJB Group in 2017 under Retainer Contract No.4400009165 with LADOTD. This project went through design changes which halted project progress temporarily and significantly changed the required taking. SJB Group performed title research for each affected parcel to prepare a title take-off consisting of the current deed and any maps, plats, etc. used to locate property lines. SJB Group then prepared a property survey showing property lines for each affected parcel and the existing right-of-way within the project limits.
07/21 – 02/22	**LA DOTD Project No. H.012851 – UP RR Corridor, Iberville Parish.** Project Manager / QA/QC. Prime contractor. 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. The project included title research and field data collection for the preparation of a property map and right-of-way map set.
03/21 – 05/22	**City-Parish Project No. 20-CP-HC-0032 – MovEBR Nicholson Segment 2, East Baton Rouge Parish, LA.** Survey Project Manager**.** Sub to Volkert. SJB Group performed a topographic survey, Subsurface Utility Engineering (SUE), property surveys, and right-of-way mapping of a 4.1 mile wide stretch of Nicholson Drive (LA 30) from Bluebonnet Boulevard to Ben Hur Road in East Baton Rouge Parish, LA, for a City-Parish widening project.

Firm employed by **SJB Group, LLC**				
Name	**Charles Tim Brewer, RF, PS, PLS, RPLS, RPP**		Years of relevant experience with this employer	➲ **2**
Title	Vice President of Surveying		Years of relevant experience with other employer(s)	➲ **28**
Degree(s) / Years / Specialization			B.S. / 1988 / Forestry Management	
Active registration number / state / expiration date			PLS.005009 | Louisiana | 9/30/2025 MS PLS.2766 | Mississippi | 12/31/2025	
Year registered	2009 1999	Discipline	Professional Land Surveyor	
Contract role(s) / brief description of responsibilities			**PROJECT MANAGER - SURVEYING**	

Mr. Brewer, has over 30 years of survey experience and over 15 years of experience managing a wide variety of surveying projects for USACE, MDOT, LADOTD, MoveBR, MoveAscension, and private clients. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/23 - ongoing	**LA DOTD Project No. H005121 LA 1 – LA 415 Connector.** Project Manager. SJB Group provided field data for the design of a roadway to connect LA 415 to LA 1 as a supplement to previously performed surveying for the realignment of the due to recent development and construction. Limits include 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. Also included is an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas. The SJB Group team collected 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 collection of field data is completed through the utilization of conventional survey methods with survey total stations and global positioning systems (GPS). Mobile LiDaR methods are utilized for the collection of data along the high traffic segments of LA 1 and processed through Trimble Business Center, with data extraction performed through TopoDot.
04/23 – 09/23	**LA DOTD Project No. H.017322.5 – Morgan City Sidewalks & Shared Use Path, St. Mary Parish.** Surveyor of Record/Project Manager. Sub to Digital Engineering. SJB Group conducted Right-of-Way Mapping, Topographic Survey, and Subsurface Utility Engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other related work in Morgan City. The project limits included Everett Street from Front Street to 4th Street, 4th Street from Everett Street to Barrow Street, and Myrtle Street from Youngs Road to Auditorium Drive. In the performance of this contract the existing right-of-way of twenty streets, one state highway right-of-way, and an irregular railroad right-of-way was determined at two crossing locations. All surveying was performed to LADOTD Location & Survey Section requirements.
08/20 – 09/23	**LA DOTD Contract No. H4400017597 – Rural Bridge Replacement Initiative.** Project Manager. Sub to Burk-Kleinpeter. SJB Group performed a Topographic Survey, Right-of-Way Mapping, and roadway design performed for the proposed bridge replacements for LA DOTD 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. A Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover were used. All surveying was performed to LADOTD Location & Survey Section requirements.
03/22 – 8/22	**LA DOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements.** Project Manager. This project included a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 (Ryan Street) near the campus of McNeese State University. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was

	gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location & Survey Section requirements.
6/21 - Ongoing	**LA DOTD Project No. H.004100.5 – I-10: LA 415 to Essen on I-10 and I-12.** Project Manager. SJB Group performed the property surveying along a 4.4-mile stretch of Interstate 10 from St. Joseph St. to College Dr. in East Baton Rouge Parish, Louisiana for the Louisiana Department of Transportation and Development's widening project. This project required extensive title research to acquire the necessary existing surveys and deeds (in addition to the substantial amount of review of the title research reports supplied to SJB by LADOTD). It also required field surveying and mapping of in excess of one hundred twenty five parcels along the project corridor, which range in size from small urban residential lots to large commercial tracts. This project corridor also encompasses existing drainage servitudes, a railroad right-of-way, and numerous side streets in the heart of Baton Rouge, all of which SJB surveyed and mapped.
02/22 – 03/22	**LA DOTD Project No. H.005967.50 – Nelson Road Extension and Bridge.** Project Manager. The Nelson Road Extension project was from north across Contraband Bayou to intersect West Sallier Street. The project included the realignment of Nelson Road, new bridge construction, and relocation of an existing railroad. The project was divided into three phases: Property Surveys, base right-of-way maps, and final right-of-way maps.
10/20 – 08/22	**LA DOTD Project No. H.002176.50 – LA 10 Bridges.** Project Manager. The LA 10 Bridges project in St. Landry parish included Right-of-Way surveys for three sites for this project, produce base right-of-way maps, along with signed and sealed right-of-way maps for the three sites. SJB surveyed the affected properties and determined the existing right-of-way for LA Hwy 10 and multiple state-claimed water bodies. Submission of preliminary property survey map depicting the existing right-of-way and property lines within the project limits.
07/21 – 02/22	**LA DOTD Project No. H.012851 – Union Pacific Railroad Corridor (Plaquemine). Prime contractor.** This project involved Quality Level B, C, and D subsurface utility engineering and utility surveying as well as a Right-of-Way Survey and 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. The project included title research and field data collection for the preparation of a property map and right-of-way map set.
06/18 – 11/21	**LA DOTD Project No. H.012001 – LA339 Canal and Creek Bridges.** The LA 339 Canal and Creek Bridges project in Vermillion Parish included Right-of-Way surveys for three sites for this project, produce base right-of-way maps, along with signed and sealed right-of-way maps for the three sites. SJB surveyed the affected properties and determined the existing right-of-way for LA Highway 339 and multiple intersecting streets. Submission of preliminary property survey map depicting the existing right-of-way and property lines within the project limits.
06/22 – 12/22	**LA DOTD Project No. H.013716 – US 167 – Camellia Boulevard-Churchill Drive.** Sub to Digital Engineering & Imaging, Inc. This project included a Topographic Survey and Right-of-Way Survey of the Camellia Boulevard and Churchill Drive intersection area. All surveying was performed to LADOTD Location & Survey Section requirements.
08/20 – 03/22	**LA DOTD Contract No. 4400017597 – Rural Bridge Replacement Initiative.** Sub to Burk-Kleinpeter, Inc. This project included a Topographic Survey, Right-of-Way mapping, and road design performed for the proposed 33 bridge replacements for LA DOTD Districts 03, 07, 61, and 62. Each site required a complete property map and the preparation of right-of-way maps and supporting data for right-of-way acquisition. The topographic Surveying portion of the project consisted of a complete inventory for each drainage structure and cross sections of all drainage ways

Firm employed by **SJB Group, LLC**					
Name	**Karen Kennedy, PE**	Years of relevant experience with this employer	➲ 3		
Title	Engineering and Subsurface Utility Engineering Department Lead	Years of relevant experience with other employer(s)	➲ 25		
Degree(s) / Years / Specialization		B.S./ 1995 / Civil Engineering			
Active registration number / state / expiration date		PE.0028547 / Louisiana / 9/30/2025			
Year registered		1999	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities		**Engineering and Subsurface Utility Engineering Department Lead**			

Ms. Kennedy has 28 years of experience as a licensed civil engineer working in both the municipal and private sectors. Ms. Kennedy has completed infrastructure improvement, site development and subsurface utility engineering (SUE) projects for LA DOTD, MovEBR, and other local entities and private developers. She has a thorough knowledge of the Subsurface Utility Engineering CI/ASCE Standard 38-22.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/22 – Ongoing	**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 will complete 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 – Ongoing	**LA DOTD Task Order No. H.001820.5-3 – LA 485 Bridges Near Allen Construction Inspection.** 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 – Ongoing	**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 will complete 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.
04/22 – 06/22	**St. Bernard Parish Water Treatment Plants SUE.** Project Manager/SUE Engineer**.** This project involved ASCE 38-02 Quality Level B and Quality Level A services for the St. Bernard Parish Water Treatment Plant expansion. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. The plant site is heavily congested with existing utilities serving the site. Records provided were out of date and therefore the accurate location of the facilities within the expansion area was critical to avoid disruption of water service or costly relocation costs.
03/22 – 08/22	**D Vickers Hall Renovations and Addition.** SUE Engineer of Record**.** Sub to Holly & Smith Architects. This project involved ASCE 38-02 Quality Level A and B SUE services for all utilities for the proposed D. Vickers Hall Expansion at Southeastern Louisiana University. Locations of the existing utilities are required to determine conflicts with the proposed expansion of D. Vickers Hall, new parking lot, and pedestrian path. Anticipated utilities were water, gas, telephone, cable, and fiber optic. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design.
01/22 – 06/22	**City Parish Project No. 21-DR-LA-0095 – Dawson Creek at Hundred Oaks and Broussard Bridges.** SUE Engineer of Record**.** Sub to Forte & Tablada, Inc. This project involved subsurface utility engineering and utility surveying for the proposed Dawson Creek at Hundred Oaks and Broussard Bridges. This project required ASCE 38-02 Quality Level A and B SUE services for all utilities within the project limits. The accurate location of these facilities was critical for the ultimate design of the bridge infrastructure included in this project.
11/21 – 03/22	**Project No. 20-2057 – LA 30 Roundabouts Subsurface Utility Investigation (Tanger Mall and I-10).** SUE Engineer of Record**.** This project involved ASCE 38-02 Quality Level A SUE and utility surveying to identify utility conflicts for all utilities owned by the City of Gonzales and the proposed LA 30 Roundabouts at Tanger Mall and I-10 in Ascension Parish. Prior to Quality Level A services, extensive Quality Level D records research was completed to aid in the subsequent

	SUE design. This effort required detailed record research, field investigations and data management. The accurate location of these utilities was critical to alleviate disruptions to utility services and conflicts and delays to the construction of the project in this heavily congested area.
10/21 – Ongoing	**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.
10/21 – Ongoing	**Purpera Avenue Drainage Improvements.** Project Manager/SUE Engineer of Record**.** This project involved a Topographic Survey and Subsurface Utility Engineering designating (Quality Level B) and locating services (Quality level A) in accordance with ASCE 38-02 for all utilities owned by the City of Gonzales. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. The overall efforts established an extensive topographic survey and Quality Level B map with Quality Level A information throughout the project corridor. The accurate location of these utilities was critical to allow for the proper design of the drainage system.
10/21 – 03/22	**LA DOTD Project No. – I-110 North to Plank Road.** SUE Engineer of Record**.** Sub to Buchart Horn. 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	**LA DOTD Project No. H.012851 – UP RR Corridor (Plaquemine).** 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.
5/21 – Ongoing	**City/Parish Project No. 20-CP-HC-0034 – MovEBR Jefferson at Corporate Intersection.** SUE Engineer**.** Sub to Buchart Horn. This project involved a Topographic Survey, Property Survey, Right-of-Way maps, and Quality Level C and Quality Level B SUE services for all utilities of the Jefferson Hwy and Bluebonnet intersection.

Firm employed by **SJB Group, LLC**				
Name	**Austin LaCombe, PE**		Years of relevant experience with this employer	**2.5**
Title	Subsurface Utility Engineering Department Manager		Years of relevant experience with other employer(s)	**7**
Degree(s) / Years / Specialization			B.S./ 2017 / Civil Engineering	
Active registration number / state / expiration date			PE.0047563 | Louisiana | 9/30/2025	
Year registered	2023	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			**SUBSURFACE UTILITY ENGINEERING DEPARTMENT MANAGER**	

Mr. LaCombe manages Subsurface Utility Engineering (SUE) projects for SJB Group. He is tasked with managing day to day operations of SUE field crews to include project research, preparation of field packages, supporting field efforts, organization and processing of field data, client coordination, and preparation/QA/QC of project deliverables. Mr. LaCombe has significant experience working on a variety of projects with diverse timelines. He is also responsible for ensuring that all safety guidelines and policies are followed and acts as a branch liaison to the corporate safety director. Mr. LaCombe is also proficient in a variety of software including: Bentley InRoads, OpenRoads, MicroStation, TopoDOT, AutoCAD Civil 3D, and Leica Cyclone.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/22 - Ongoing	**LSU Science Zone** Project involved Topographic Survey, Quality Level "B", and Quality Level "A" Subsurface Utility Engineering in preparation for the installation of a specialty underground chilled water system piping for the Science Zone of Louisiana State University's Baton Rouge Campus. A Leica TS16 Robotic Total Station, Leica GS18 T GNSS RTK Rover for both RTN and RTK, and a GeoSLAM ZEB Horizon were used. SUE data was collected using a combination of Ground-Penetrating Radar, air-assisted vacuum excavation, Electromagnetic Pipe and Cable locators, and other non-destructive detection equipment.
07/22 - Ongoing	**LA DOTD Project No. H.013797 – LA 30: EBR PL I-10** Project involved providing Property Surveys, Quality Level "D" Subsurface Utility Engineering, GIS, and LiDAR review services as an addition to a Stage 0 Feasibility Study for the Corridor. There are many industrial pipelines within this corridor making the correct identification of the utilities and owners within this corridor imperative for future stages of this project. In addition to the Quality Level "D" records, this project also involved field investigations to determine the order of the pipelines within the project limits. SUE data was collected using a combination of Ground-Penetrating Radar, air-assisted vacuum excavation, Electromagnetic Pipe and Cable locators, and other non-destructive detection equipment. All surveying was performed to LADOTD Location & Survey Section requirements, and all Subsurface Utility Engineering was completed to ASCE 38-02 standards.
03/22 – 08/22	**D Vickers Hall Renovations and Addition.** SUE Engineer**.** Sub to Holly & Smith Architects. This project involved ASCE 38-02 Quality Level A and B SUE services for all utilities for the proposed D. Vickers Hall Expansion at Southeastern Louisiana University. Locations of the existing utilities are required to determine conflicts with the proposed expansion of D. Vickers Hall, new parking lot, and pedestrian path. Anticipated utilities were water, gas, telephone, cable, and fiber optic. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design.
11/21 – 03/22	**Project No. 20-2057 – LA 30 Roundabouts Subsurface Utility Investigation (Tanger Mall and I-10).** SUE Engineer**.** This project involved ASCE 38-02 Quality Level A SUE and utility surveying to identify utility conflicts for all utilities owned by the City of Gonzales and the proposed LA 30 Roundabouts at Tanger Mall and I-10 in Ascension Parish. Prior to Quality Level A services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. This effort required detailed record research, field investigations and data management. The accurate location of these utilities was critical to alleviate disruptions to utility services and conflicts and delays to the construction of the project in this heavily congested area.
11/22 – 04/23	**City Parish Project No. 20-CP-US-0099 – MoveBR – Airline Highway North (Florida Boulevard to I-110)** This project involved a Corridor LiDAR Survey and Quality Level "D" Subsurface Utility Engineering services on portions of northbound Airline Highway between Florida Boulevard and I-110 for the proposed improvements of the four-lane divided arterial to increase capacity and safety in the area as well as improve pedestrian movement through the corridor. Mobile LiDAR Data was gathered using a Trimble MX50, LadyBug, NovAtel Positioning, and Velodyne LiDAR. SUE data was collected using a combination of Ground-

	Penetrating Radar, air-assisted vacuum excavation, Electromagnetic Pipe and Cable locators, and other non-destructive detection equipment. All surveying was performed to LADOTD Location & Survey Section requirements, and all Subsurface Utility Engineering was completed to ASCE 38-02 standards.
10/21 – Ongoing	**Purpera Avenue Drainage Improvements.** Project Manager / SUE Engineer of Record**.** This project involved a Topographic Survey and Subsurface Utility Engineering designating (Quality Level B) and locating services (Quality level A) in accordance with ASCE 38-02 for all utilities owned by the City of Gonzales. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. The overall efforts established an extensive topographic survey and Quality Level B map with Quality Level A information throughout the project corridor. The accurate location of these utilities was critical to allow for the proper design of the drainage system.
10/21 – 02/22	**LA DOTD Project No. H.009266.5 – I-10: LA 73 - LA30.** Project Manager**.** LA DOTD was preparing plans to widen I-10 from 4 to 6 lanes from LA 73 – to LA 30. This project involved Quality Level B SUE services at the LA73/I-10 interchange as well as Quality Level D services for the remainder of the project limits.
01/20 – 11/20	**LA DOTD Project No. H.002868.5 – I-49 South, Ambassador Caffery & US 90 Interchange.** Project Manager/QA/QC**.** This project involved providing designating (Quality Level B) and locating (Quality Level A) SUE services to map the underground utilities within the project limits. In this congested corridor, the first task required mapping subsurface utilities along several mile of the Ambassador Caffery and US 90 right-of-way. After the completion of the Quality Level B investigation, this information was compiled and reviewed to conduct Quality Level A services on critical utilities in an effort to further aid in the design process.
01/18 – 05/20	**LA DOTD Project No. H.004100.5 – I-10: LA 415 to Essen Lane on I-10 and I-12.** Project Manager / QA/QC**.** This project involved records research (Quality Level D) and designating (Quality Level B) SUE throughout the 10-mile project corridor were part of this project. The team developed a comprehensive map based on record collection and discussions with utility representatives. The design team used the preliminary utility map for reference to determine larger systems to avoid during preliminary design.
10/16 – 08/17	**LA DOTD Project No. H.010560.5 – Essen Lane Widening (Route LA 3064), Perkins Road to I-10b.** Assistant Project Manager**.** This project involved designating (Quality Level B) and locating (Quality Level A) SUE services to map the underground utilities within the project limits. This corridor is one of the most congested roads in Baton Rouge with utilities servicing business and medical facilities. All utilities inventoried were useful in helping the designer to fully understand the available space for the new construction and the impacts. Utility coordination services were provided to identify and resolve utility/design conflicts. Utility coordination was complicated due to the need to minimize right-of-way acquisition.
07/15 – 12/21	**LA DOTD Project No. H.004273.5 – I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange).** Project Manager/QA/QC**.** This project involved ASCE 38-02 Quality Level A and B services to map the underground utilities within the project limits spanning 7 miles of downtown Lafayette. Prior to Quality Level B activities, an extensive Quality Level D records-based map was created to aid in the preliminary design. This effort required multiple field leaders, detailed field data management, and constant oversight. After compiling the Quality Level B map, Quality Level A portion of the project was started in an effort to establish elevations on critical utility systems as well as unknown utilities found in the Quality Level B mapping. The overall efforts established an extensive Quality Level B map with Quality Level A information throughout the project corridor in combination with the Utility Coordination to keep utility owners aware of the mapping progress.

Firm employed by **SJB Group, LLC**				
Name	**Elvis Nguyen**		Years of relevant experience with this employer	**8**
Title	Field Crew Manager		Years of relevant experience with other employer(s)	**20**
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			**FIELD CREW MANAGER**	

Mr. Nguyen has more than 26 years of experience as a survey party chief. He has led field crews in performing boundary, topographic, right-of-way, and construction stakeout surveys throughout the State of Louisiana and can lead a crew in remote areas. His responsibilities are coordinating field crews, equipment maintenance, fleet maintenance and coordination, processing field data, and stepping in as Party Chief as needed for field work. He is an ATSSA certified traffic control technician and supervisor.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/23 – 09/23	**LA DOTD Project No. H.017322.5 – Morgan City Sidewalks & Shared Use Path, St. Mary Parish, LA.** Field Crew 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 related work in Morgan City. The project limits included Everett Street from Front Street to 4th Street, 4th Street from Everett Street to Barrow Street, and Myrtle Street from Youngs Road to Auditorium Drive. In the performance of this contract the existing right-of-way of twenty streets, one state highway right-of-way, and an irregular railroad right-of-way was determined at two crossing locations. All surveying was performed to LADOTD Location & Survey Section requirements.
04/23 – Ongoing	**City-Parish Project No. 21-DR-US-0038 – EBRP Flood Risk Reduction Project for Beaver and Blackwater Channel Improvements.** Field Crew Manager. This project included Boundary Surveying, Right-of-Way Mapping, Topographic Surveying, Title Review, and Subsurface Utility Engineering for approximately 25 miles of proposed channel improvements. The project is being performed according to the LADOTD Location and Survey Manual. Property surveys were performed for parcels along the corridor of each waterway for the creation of a property map with coordinates of all recovered monuments to be provided in ASCII format. Base Right-of-Way Maps, Final Right-of-Way Maps, along with a parcel input file for the creation of acquisition parcel descriptions. Additionally, detailed Topographic Surveys are performed at all bridge crossings along the channels, including existing utility locations.
11/22 – 07/23	**LSU Science Zone.** Field Crew Manager. Sub to Infinity. This project involved Topographic Survey, Quality Level "B", and Quality Level "A" Subsurface Utility Engineering in preparation for the installation of a specialty underground chilled water system piping for the Science Zone of Louisiana State University's Baton Rouge Campus. A Leica TS16 Robotic Total Station, Leica GS18 T GNSS RTK Rover for both RTN and RTK, and a GeoSLAM ZEB Horizon were used. SUE data was collected using a combination of Ground-Penetrating Radar, air-assisted vacuum excavation, Electromagnetic Pipe and Cable locators, and other non-destructive detection equipment.
03/22 – 08/23	**LA DOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements.** Field Crew Manager. This project included a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 (Ryan Street) near the campus of McNeese State University. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location & Survey Section requirements.

Firm employed by **SJB Group, LLC**				
Name	**Erick Kidder**		Years of relevant experience with this employer	➲ **1**
Title	Party Chief		Years of relevant experience with other employer(s)	➲ **11**
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			**PARTY CHIEF**	

Mr. Kidder has 12 years as a Party Chief. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping using both conventional and GPS instruments. He is knowledgeable with several Leica Geosystems such as the ScanStation C10 3D Laser Scanner, TS16 Robotic Total Station, GS18 GNSS RTK Rover, and the Viva GS16 GNSS rover.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/23 – present	**City-Parish Project No. 21-DR-US-0038 – EBRP Flood Risk Reduction Project for Beaver and Blackwater Channel Improvements.** Party Chief. This project included Topographic Survey, Right-of-Way Mapping, Boundary Survey, Title Review, and Subsurface Utility Engineering for approximately 25 miles of proposed channel improvements. SUE investigations were performed at all bridge crossings along the channel to locate the majority of utilities crossing the channel. Known utility crossings discovered during records research that intersect the channel were also investigated to achieve Quality Level "B". Using this information a comprehensive map depicting horizontal locations of existing utilities crossing the channel was created to aid in the design of future channel improvements. A Leica TS16 Robotic Total Station and a Leica SmartNet HxGN RTN were used. Data was processed using InRoads MicroStation. SUE data was collected using a combination of Ground-Penetrating Radar, air-assisted vacuum excavation, Electromagnetic Pipe and Cable locators, and other non-destructive detection equipment.
04/23 – present	**Right-of-Way Surveying for ATMOS Energy.** Party Chief. Mr. Kidder has completed 18 Right-of-Way Surveys for ATMOS Energy. He utilizes both conventional and GPS instruments to gather data necessary for the development of Right-of-Way Maps for ATMOS.
10/23 – present	**LA DOTD Project No. 005121 LA 1 – LA 415 Connector.** Party Chief. The project provides field data for 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 due to recent development and construction. The project limits include 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 includes 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 methods are utilized for the collection of data along the high traffic segments of LA 1 and 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 will be provided in accordance with the LADOTD guidelines for electronic deliverables.
6/18 - present	**LA DOTD Project No. H.15487.5 – New Orleans Pedestrian Improvements.** Party Chief. This project included a Topographic Survey of fifty-five intersections in the downtown area of New Orleans, Louisiana. The purpose of the project was to upgrade and construct pedestrian sidewalk crossings to ADA standards. The field data was collected via Mobile LiDaR Scanning utilizing a Trimble MX -50 and supplemented with conventional survey methods. The project included utility mapping of each intersection by records research. Additionally, the project included the determination of the existing right-of-way for the specific streets and LA DOTD roadways. The control for the project was established in accordance with the Louisiana Department of Transportation and Development Location and Survey Manual. The point cloud data was processed through Trimble Business Center and extracted with TopoDot. The deliverables included topographic base maps, plan-profile sheets, coordinate files, and a control sketch.

6/24 - present	**LA DOTD Project No. H.013716 – US 167 – Camellia Boulevard-Churchill Drive.** Party Chief. Sub to Digital Engineering & Imaging, Inc. This project involved a Topographic Survey and Right-of-Way mapping of the Camellia Boulevard and Churchill Drive intersection area. All surveying was performed to LADOTD Location & Survey Section requirements.

Firm employed by **SJB Group, LLC**				
Name	**Phillip Dowden**		Years of relevant experience with this employer	**2.5**
Title	Mobile LiDAR Technician		Years of relevant experience with other employer(s)	**26**
Degree(s) / Years / Specialization			B.S. / 1985 / Construction Management	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			**MOBILE LiDAR TECHNICIAN**	

Mr. Dowden has more than twenty-seven years of experience in the survey field. His experience includes land survey and powerline design, Marine Surveying, Boundary and ALTA Surveys, vessel offset surveys and calibrations for offshore wind farms, planning and coordinating offshore rig relocations, Hazard Surveys, bathymetry and seafloor mapping, and extensive experience with GPS control. He is knowledgeable in a variety of software including Trimble Business Center, POSPac MMS, TopoDOT, OpenRoads Designer, LadybugCapPro, IrfanView 64, and Quick Terrain Modeler. He is also thoroughly knowledgeable in a variety of equipment, such as the Trimble MX50 and tertiary equipment such as DMI, Ladybug, and Leica Base Positioning, Faro S350, Geoslam, and compact microdrones with Teledyne LiDAR, amongst others. His responsibilities include processing field data, project management, and occasionally conducting field work. *ATSSA Certified Flagger, Traffic Control Technician*

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
11/23 – Ongoing	**LA DOTD Project No. H.15487.5 – New Orleans Pedestrian Improvements** Mobile LiDAR Lead. This project included a Topographic Survey of fifty-five intersections in the downtown area of New Orleans, Louisiana. The purpose of the project was to upgrade and construct pedestrian sidewalk crossings to ADA standards. The field data was collected via Mobile LiDaR Scanning utilizing a Trimble MX -50 and supplemented with conventional survey methods. The project included utility mapping of each intersection by records research. Additionally, the project included the determination of the existing right-of-way for the specific streets and LA DOTD roadways. The control for the project was established in accordance with the Louisiana Department of Transportation and Development Location and Survey Manual. The point cloud data was processed through Trimble Business Center and extracted with TopoDot. The deliverables included topographic base maps, plan-profile sheets, coordinate files, and a control sketch
10/23 – Ongoing	**LA DOTD Project No. 005121 LA 1 – LA 415 Connector** Mobile LiDAR Lead. The project provides field data for 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 due to recent development and construction. The project limits include 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 includes 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 methods are utilized for the collection of data along the high traffic segments of LA 1 and 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 will be provided in accordance with the LADOTD guidelines for electronic deliverables.

04/23 – Ongoing	**City-Parish Project No. 21-DR-US-0038 – EBRP Flood Risk Reduction Project for Beaver and Blackwater Channel Improvements** Mobile LiDAR Lead. This project included Boundary Surveying, Right-of-Way Mapping, Topographic Surveying, Title Review, and Subsurface Utility Engineering for approximately 25 miles of proposed channel improvements. The project is being performed according to the LADOTD Location and Survey Manual. Property surveys were performed for parcels along the corridor of each waterway for the creation of a property map with coordinates of all recovered monuments to be provided in ASCII format. Base Right-of-Way Maps, Final Right-of-Way Maps, along with a parcel input file for the creation of acquisition parcel descriptions. Additionally, detailed Topographic Surveys are performed at all bridge crossings along the channels, including existing utility locations.
01/23 – Ongoing	**LA DOTD Contract No. 44-22830 – ADA Transition Plan Update Phase 1 – District 3 Pilot Study** Mobile LiDAR Lead. Sub to Kimley Horn. This project involved a Topographic Survey to allow LA DOTD to perform an updated self-evaluation of the existing Transition Plan under Title II of the Americans with Disabilities Act (ADA). SJB Group gathered LiDAR data and associated imagery of 30 linear miles of sidewalks along DOTD roadways using a Trimble MX50, DMI, LadyBug, and Leica Base Position. The LiDAR data was then processed into a point cloud using LP360 and OpenRoads Designer TopoDOT. All surveying was performed to LADOTD Location & Survey Section requirements.
03/22 – 8/23	**LA DOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements** Mobile LiDAR Lead. This project included a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 (Ryan Street) near the campus of McNeese State University. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location & Survey Section requirements.
10/21 – 05/22	**LA DOTD Project No. H.010319.5 – I-110 North to Plank Road** Mobile LiDAR Lead. Sub to Buchart Horn. This project involved a limited Topographic Survey, LiDAR Scanning, Quality Level "D", and Quality Level "C" Subsurface Utility Engineering services to assist in the lighting design for this project. LiDAR data and associated imagery was gathered using a Trimble MX50, Velodyne LiDAR Scanner, Ladybug, and a FARO S-350 Terrestrial Laser Scanner. A Leica C-10 Terrestrial Scanner and a GeoSLAM ZEB Horizon 3D Scanner were also used. SUE data was collected using a combination of Ground-Penetrating Radar and Electromagnetic Pipe and Cable locators. All surveying was performed to LADOTD Location & Survey Section requirements, and all Subsurface Utility Engineering was completed to ASCE 38-02 standards.

Firm employed by **SJB Group, LLC**				
Name	**Marshall Pounds**		Years of relevant experience with this employer	**1**
Title	SUE Technician		Years of relevant experience with other employer(s)	**25**
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			**SENIOR SUE TECHNICIAN**	

Mr. Pounds has over 25 years in the utility locating and construction industry. Mr. Pounds is a utility research specialist with a vast database of utility providers and contacts. He is tasked with records research, supporting field efforts, organization and processing of field data, client coordination, and preparation of project deliverables. He has a thorough knowledge of the Subsurface Utility Engineering CI/ASCE Standard 38-22 Standard Guideline for Investigating and Documenting Existing Utilities

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/21 – 10/21	**H.003931.5, Calcasieu River Bridge (HBI), LADOTD, Calcasieu Parish, LA –** Project provided Quality Level B and Quality Level A SUE services as well as Utility Coordination during Design for this project along I-10 in Lake Charles, Louisiana. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.
03/21 – 10/21	**Plank Road Relocation, City/Parish of East Baton Rouge, Baton Rouge, LA –** Project provided Subsurface Utility Engineering (Level B and A) for the relocation of LA 67 (Plank Rd.) around the Runway Safety Area at the end of Runway 31 at the Greater Baton Rouge Airport. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.
04/21 – 06/21	**MA-18-07, Roddy Road @ 621 Roundabout, Ascension Parish Government, Ascension Parish, LA** – Project included desktop site assessments, provided LA One Call services, and coordinated with Survey Crews prior to, and during field operations for the location of underground utilities. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.
12/23 – Present	**City/Parish Project No. 20-CP-HC-0034 – MovEBR Jefferson at Corporate Intersection** Sub to Buchart Horn. Project involved a Topographic Survey, Property Survey, Right-of-Way maps, and Quality Level C and Quality Level B SUE services for all utilities of the Jefferson Hwy and Bluebonnet intersection. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.
10/23 – Present	**MA-22-04 LA 73 at Cornerview Roundabout.** Project included a Property Survey, Topographic Survey, Right-of-Way Mapping, Quality Level "B" Subsurface Utility Engineering, Drainage Design, Quality Level "A" Subsurface Utility Engineering, Geotechnical Investigation, Roundabout Report, Preliminary and Final Design Plans for a proposed roundabout at the intersection. . Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.
10/23 - Present	**MA-23-06 LA 73 at LA 74 Roundabout.** Sub to Volkert. This project included a Property Survey, Topographic Survey, Right-of-Way Mapping, Quality Level "B" Subsurface Utility Engineering, and Quality Level "A" Subsurface Utility Engineering, for a proposed roundabout at the intersection. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.

Gresham Smith Resumes

 Prime consultant name: **Michael Baker International, Inc.**

Firm employed by **Gresham Smith**					
Name	**Herbert "Bert" Moore, II, PE, PLS, PTOE**		Years of relevant experience with this employer	➲ **10**	
Title	Project Executive		Years of relevant experience with other employer(s)	➲ **16**	
Degree(s) / Years / Specialization			BS / 1999 / Civil Engineering		
Active registration number / state / expiration date			P.E.0031065 / LA / Exp. 9/30/26 | PTOE 2728 / Exp. 9/30/27 | PLS 5043 / LA / Exp. 9/30/26		
Year registered	2004 (PE); 2009 (PTOE); 2010 (PLS)	Discipline	P.E./Civil, PLS, PTOE		
Contract role(s) / brief description of responsibilities			**SENIOR TRAFFIC ENGINEER**		

Bert is a professional engineer with more than 25 years of experience designing and managing projects in the fields of traffic and transportation engineering. He previously spent six years as the district traffic operations engineer for LADOTD where he was responsible for the daily maintenance and operation of signs, striping and traffic equipment for 2,000 miles of roadway and over 600 traffic signals in the Department's Baton Rouge district. His experience is in traffic operations, traffic control, signal warrants, traffic signal timing and design, safety studies, the implementation of access management principles, temporary traffic control for work zones, Transportation Management Plans (TMP), and addressing bicycle and pedestrian needs within the roadway network. Bert has completed the LADOTD Traffic Analysis Process and Report Training.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
3/21 – 4/24	**MSY Airport, Entrance Road Capacity Design, New Orleans, LA.** Senior Transportation Engineer. Gresham Smith provided design and project management for the City of New Orleans to widen the main exit road at Louis Armstrong New Orleans International Airport (MSY) from 2 lanes to 3 lanes. The project includes the widening of approximately 1/4-mile of roadway, extending the roundabout slip lane exit from the roundabout and tying into the design-build flyover project currently under construction.
4/20 – 12/22	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design.** Senior Transportation Engineer. Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Bert has assisted the team with roundabout analysis, temporary traffic control and sequencing of construction.
2/17 – Ongoing	**LADOTD, SRTS/LRSP Task Order 6 & 21: Endom Bridge, West Monroe, LA.** Project Executive. Bert is responsible for overseeing the data collection, analyzing the traffic counts to determine appropriate lane configuration and geometry, and support and coordination of overall design.
8/22 – Ongoing	**City of Gonzales, US 61 Superstreet (Lowes to LA 44), Gonzales, LA.** Project Executive. Gresham Smith is currently performing the design to convert this section of US 61 to a Superstreet. This design will remove all of the uncontrolled median breaks and replace them with directional median U-Turn or J-Turn with exclusive turn lanes. These JTurns will be controlled by a 2 phased traffic signal which will only stop one direction of US 61 so that the U-Turns can be made. Additionally, the existing signalized intersection of US 61 at Lowes and US 61 at LA 44 will be converted to Restricted Crossing U-Turns (RCUTs).
4/18 – 5/19	**LADOTD, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA.** Project Executive. Gresham Smith developed a TMP for the Rubbelization and Overlay on I-10 between I-210 and the LA 108 Interchange in Lake Charles, LA. This project included the mill and overlay of I-10, widening two flat deck bridges on I-10 to add a lane, and replacing all of the concrete panels on I-10 through the LA 108 interchange. In order to replace the concrete panels on I-10, traffic was moved to a C/D road within the interchange and cloverleaf ramps were closed during construction. Two temporary traffic signals were designed to facilitate traffic at this interchange. This project included data collection and queue and safety analyses and traffic signal design. Bert was responsible for the overall study including overseeing the data collection review, conducting the queue and safety analysis, implementing the proper traffic control plans, development of the TMP report, the design of two temporary traffic signals and QA/QC.

7/19 – 12/21	**LADOTD, Lafayette Consolidate Government Adaptive Traffic Signals, Lafayette County, LA.** Project Executive. Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading over 200 traffic signal controllers. In addition, 76 traffic signals will be upgraded to become adaptive traffic signals. This will be both the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of over 200 traffic signals, design plans for 76 adaptive signals, implementation of a new EVP system, integration support, and before and after travel studies. Bert was responsible for the project including overseeing data collection, traffic signal design, integration, before travel time studies and QA/QC of the preliminary and final plans.
10/17 – 4/18	**LADOTD, US 90 Bridge Maintenance over I-10 Ramps, Transportation Management Plan (TMP), Lake Charles, LA.** Project Executive. Gresham Smith was selected to develop a TMP for the replacement of the bridge deck of the US 90 overpass over I-10 in Lake Charles, LA. The project included working with the design engineers to determine the required lane closures for the construction, data collection and queue and safety analyses. Bert was responsible for the overall study including overseeing the data collection review, conducting the queue and safety analysis, implementing the proper traffic control plans and development of the TMP report.
5/17 – 3/19	**LADOTD, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA.** Project Executive. Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to evaluate the proposed interchange design. The project included data collection, development of growth rates, lead the Road Safety Assessment, developing and calibrating an existing VISSIM model and evaluation of the proposed alternative. Bert was responsible for the overall study, overseeing data collection, conducting safety analysis, development of VISSIM models, development of alternatives and the report.

Firm employed by **Gresham Smith**					
Name	**Richard Savoie, PE**		Years of relevant experience with this employer	➲ **6**	
Title	Senior Transportation Engineer		Years of relevant experience with other employer(s)	➲ **40**	
Degree(s) / Years / Specialization			BS / 1978 / Civil Engineering		
Active registration number / state / expiration date			P.E.0020936 / LA / Exp. 9/30/26		
Year registered	1983 (PE)	Discipline	P.E./Civil		
Contract role(s) / brief description of responsibilities			**SENIOR TRANSPORTATION ENGINEER**		

Richard has a wealth of experience with the LADOTD with increasing roles culminating as the LADOTD Deputy Chief Engineer and Chief Engineer. He spent 26 years in the LADOTD Road Design section where he supervised employees designing roadway projects and also supervised consultants designing roadway projects for the department. As Chief Engineer, Richard was responsible for establishing engineering directives and standards, policies, budgets, expenditures, programs and procedures that guided project and program delivery, construction, and preservation of transportation projects and systems.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
4/20 – 12/22	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design.** Senior Engineer. Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Richard is responsible for overall Quality Control on the project. He is mentoring the engineering staff on the field evaluation requirements, reviewing all potential improvements, and is responsible for QC reviews on the preliminary and final design plan submissions.
8/22 – Ongoing	**City of Gonzales, US 61 Superstreet (Lowes to LA 44), Gonzales, LA.** Project Manager. Gresham Smith is currently performing the design to convert this section of US 61 to a Superstreet. This design will remove all of the uncontrolled median breaks and replace them with directional median U-Turn or J-Turn with exclusive turn lanes. These JTurns will be controlled by a 2 phased traffic signal which will only stop one direction of US 61 so that the U-Turns can be made. Additionally, the existing signalized intersection of US 61 at Lowes and US 61 at LA 44 will be converted to Restricted Crossing U-Turns (RCUTs).
3/21 – 4/24	**MSY Airport, Entrance Road Capacity Design, New Orleans, LA.** Senior Engineer. Gresham Smith provided design and project management for the City of New Orleans to widen the main exit road at Louis Armstrong New Orleans International Airport (MSY) from 2 lanes to 3 lanes. The project includes the widening of approximately 1/4-mile of roadway, extending the roundabout slip lane exit from the roundabout and tying into the design-build flyover project currently under construction.
2/09 – 3/14	**LADOTD, Project and Program Delivery.** Project Manager. Richard was the Project Manager for the I-49 North project in Caddo Parish, from I-220 to the Arkansas State Line. The project started with the Corridor Selection Study and progressed to the Environmental Impact Study. Once the alignment was selected plan development began and thence project delivery for this $670 million project. As the Deputy Chief and Chief Engineer, Richard participated in many partnering sessions for the Huey P. Long Bridge widening, John James Audubon Bridge and the cable replacement for the I-310 Luling Bridge with contractors and designers. He was the first Director of **Value Engineering** when the department started their **Value Engineering** program in 1998. He participated in multiple **Value Engineering** sessions and led the **Value Engineering** study for the pavement replacement for I-10 thru Lake Charles.

Firm employed by **Gresham Smith**					
Name	**Brennon Hughes, PE**		Years of relevant experience with this employer	➲ 7	
Title	Lead Roadway Design Engineer		Years of relevant experience with other employer(s)	➲ 6	
Degree(s) / Years / Specialization			BS / 2011 / Civil Engineering		
Active registration number / state / expiration date			P.E.0039985 / LA / Exp. 3/31/26		
Year registered	2015 (PE)	Discipline	P.E./Civil		
Contract role(s) / brief description of responsibilities			**LEAD ROADWAY DESIGN ENGINEER**		

Brennon is a professional engineer with experience in the design and management of roadway projects. He joined Gresham Smith after six years at the Louisiana Department of Transportation and Development, including over five years working in the road design section. During his time at DOTD, Brennon gained experience as a designer on a number of different types of projects, varying in size and scope, including roadway widenings, roundabouts, turn lane additions and new alignment roadways. Since joining Gresham Smith, Brennon has built upon this foundation in design by serving in a project management role for several projects and retainer contracts. He now leads the roadway group in the Gresham Smith Baton Rouge office.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
3/21 – 4/24	**MSY Airport, Entrance Road Capacity Design, New Orleans, LA.** Lead Roadway Design Engineer. Brennon was responsible for planning and coordinating staffing, scheduling, and budgeting for this project. He also led the design and the preparation of preliminary and final plans and cost estimates. He worked closely with Airport officials along with the consultant for the adjacent design-build project to coordinate the widening of the entrance road to the MSY Airport.
8/17 – 12/20	**LADOTD, SRTS/LRSP Task Order 6 & 21: Endom Bridge Preliminary and Final Design, West Monroe, LA.** Lead Roadway Design Engineer. Brennon led the design and the preparation of preliminary and final plans and cost estimates. This project involved safety and operations improvements for the intersection realignment, curb and gutter drainage design, sidewalks, truck islands and turnouts.
8/22 – Ongoing	**City of Gonzales, US 61 Superstreet (Lowes to LA 44), Gonzales, LA.** Lead Roadway Engineer. Gresham Smith is currently performing the design to convert this section of US 61 to a Superstreet. This design will remove all of the uncontrolled median breaks and replace them with directional median U-Turn or J-Turn with exclusive turn lanes. These JTurns will be controlled by a 2 phased traffic signal which will only stop one direction of US 61 so that the U-Turns can be made. Additionally, the existing signalized intersection of US 61 at Lowes and US 61 at LA 44 will be converted to Restricted Crossing U-Turns (RCUTs).
4/20 – 12/22	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design.** Lead Roadway/Roundabout Design Engineer. Brennon is the lead engineer on this project, providing roadway design and signal design oversight. Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Brennon led the design and preparation of preliminary plans and cost estimates. This project is currently undergoing scope adjustments for final design.
9/11 – 7/17	**LADOTD, Roadway Group.** Project Engineer. Prior to joining Gresham Smith, Brennon served with the LADOTD Roadway Group as a designer on various roadway projects including a new roundabout, widening projects, overlay projects, and intersection improvements.

Firm employed by **Gresham Smith**					
Name	**Ronnie Robinson, PE**		Years of relevant experience with this employer	**8**	
Title	Senior Transportation Engineer		Years of relevant experience with other employer(s)	**33**	
Degree(s) / Years / Specialization			BS / 1982 / Civil Engineering		
Active registration number / state / expiration date			P.E.0024040 / LA / Exp. 3/31/26		
Year registered	1988	Discipline	P.E./Civil		
Contract role(s) / brief description of responsibilities			**SENIOR TRANSPORTATION ENGINEER**		

Ronnie has 33 years of experience with the Louisiana Department of Transportation and Development. He worked 11 of his 16 years in construction as a project engineer, eight years as manager of the design and permit sections and nine years as administrator for the design, water resources, permit and materials testing sections.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
4/20 – 12/22	**City of Central (LA), Hooper Road (LA 408) at Sullivan Road (LA 3034) Roundabout Design, Central, LA.** Senior Transportation Engineer. Gresham Smith was tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Ronnie provided quality control for the preliminary design phase, participated in the plan-in-hand meeting, and will provide design assistance for the development of the final design plans.
2/17 – 12/20	**LADOTD, SRTS/LRSP Task Order 6 & 21: Endom Bridge Preliminary and Final Design, West Monroe, LA.** Senior Transportation Engineer. Ronnie's responsibilities included assisting in the development of preliminary and final plans and construction cost estimates. His efforts included coordination of the contaminated waste investigation, drainage layout and quality control for the preliminary design.
7/17 – 6/19	**LADOTD, SRTS/LRSP Task Order 7: McMillan at Blanchard Intersection Improvements Design, West Monroe, LA.** Senior Engineer. Ronnie's responsibilities included conducting field traffic observations and collecting field data for the study portion. For the design portion, his responsibilities included developing conceptual designs, preliminary and final plans and construction cost estimates.
3/16 – 10/17	**LADOTD, Farmerville State and Local Road Traffic Study, Farmerville, LA.** Senior Engineer. Gresham Smith was selected to perform a formal traffic study of all the intersections (57) within and around the City of Farmerville on both state and local routes. The project included data collection, safety/crash review, developing alternatives, analysis of existing and proposed conditions and benefit/cost analysis. Ronnie assisted with the development of alternatives and was responsible for developing construction cost estimates for various alternatives.

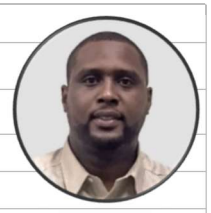
Firm employed by **Gresham Smith**					
Name	**John Weres, PE**		Years of relevant experience with this employer	➲ 7	
Title	Senior Bridge Engineer		Years of relevant experience with other employer(s)	➲ 36	
Degree(s) / Years / Specialization			BS / 1980 / Civil Engineering		
Active registration number / state / expiration date			PE.0036429 / LA / Exp. 9/30/25		
Year registered	2011 (LA); 1985 (PA)	Discipline	P.E./Civil		
Contract role(s) / brief description of responsibilities			**SENIOR BRIDGE ENGINEER**		

John's 40+-year career includes diverse structure related activities including inspection, alternatives analysis, final design and construction management and program management. Experience includes multi-level interchanges, complex geometry, truss rehabilitations and suspension bridge rehabilitations, phased construction, deep foundations, complex pier geometry, and movable bridge inspection and design. John served as Team Leader on several LA DOTD complex bridge inspections and as Project Manager for underwater bridge inspections for TDOT. NHI Certified 130055 (Team Leader), 130078 (Fracture Critical Steel), and 135048 (Countermeasure Design). Also, FAA Part 107 USAS (drone) licensed pilot.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
6/19 – 3/20	**LADOTD, Complex Bridge Inspections, Task Order #1, Statewide, LA.** Project Manager. Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the LA1 Truss over Atchafalaya River at Simmesport, LA8 Segmental Bridge over Red River at Boyce and the US165 Vertical Lift Bridge over Red River. Gresham Smith was able to complete the inspection of Bridge 005860, in Jeanerette, a steel swing truss and Bridge 009130, in Charenton, a steel swing truss – within the original budget for the initial three bridges.
4/20 – 9/20	**LADOTD, Complex Bridge Inspections, Task Order #2 - Emergency Bridge Repairs, US 71 in Downtown Shreveport, LA.** Project Manager. In April 2020, a train derailment damaged Bent 3 of the Spring Street Bridge forcing the roadway closure. Gresham Smith was selected to perform the bridge repairs to open the bridge. Working with the selected contractor, helical piles were designed to support the new column foundations and crash wall. John served as the design coordinator and facilitated the repairs.
7/20 – 10/23	**LADOTD, Complex Bridge Inspections, Task Order #3, Statewide, LA.** Project Manager. Retainer project for various movable bridge inspections. Completed hands-on inspection of fracture critical elements on several structures and coordinated the efforts of mechanical and electrical staff and served as EOR for the reports including the Bridge 006210 Vertical Lift Bridge at Loreauville, LA, Bridge 054360 Gross Tete Steel Swing Bridge and Bridge 054472 Indian Village Steel Swing Bridge in Iberville Parish. Due to cost savings on the initial 3 bridges in Task Order 2, we were able to complete the inspection of Bridge 006306, Bayside Bridge in Jeanerette, a steel swing bridge – within the original budget.
6/21 – 8/21	**FLDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL.** QA/QC. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. John led the field evaluations, including drone video documentation and development of the recommendations report. This historic, former railroad structure includes a 247' Parker Truss main span with 24 Pratt truss approach spans as well as 9 plate girder approaches.
7/19 - Ongoing	**TDOT, Complex and Standard Bridge Load Ratings, Statewide, TN.** Senior Structural Engineer. John provided bridge load rating for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
4/15 – 3/17 **With another firm**	**LADOTD, I-49 Lafayette Connector, Lafayette, LA.** Deputy Lead Structural Design Engineer. Served as Deputy Lead Structural Design Engineer for the concept design for a 4-mile long elevated structure through an urban area. Structure concepts included post-tensioned concrete U-girders, span-by-span segmental boxes,

	and steel trapezoidal boxes. John coordinated the efforts of the individual design teams for each structure type and served as the public coordination lead for the structures as part of an overall community involvement plan on developing the proposed structure type for this $800M project.
6/15 – 3/17 **With another firm**	**LADOTD, State Project No. H.004367.5 – Earhart Expressway Connector, Metairie, LA.** Deputy Project Manager, Lead Structures Engineer. Preliminary and final design for a 7,000-foot urban expressway structure as part of the Earhart Expressway to Airline Highway Connector project. Preliminary design activities included survey, SUE, development of design criteria, development of bridge typical sections and development of proposed span arrangements and coordination with CN Railroad for the placement of bridge piers within the railroad right-of-way.
11/17 – 9/21	**MDOT, MS-178 Benton County Bridges, Benton County, MS.** Lead Structure Engineer. John served as the Lead Design Engineer for the final design of a 2-cell box culvert and two prestressed concrete girder structures in northern Mississippi. These water crossings improved the hydraulic conditions at the sites and incorporated low-maintenance details such as jointless bridges.
1/17 – 8/21	**MDOT, Marshall County Bridges Replacements, MS.** Lead Structure Engineer. John provided construction services for the new 3-span Byahalia Bridge and served as Engineer of Record (EOR) for replacement of 5 multi-span stream crossing structures in north Mississippi.

Firm employed by **Gresham Smith**					
Name	**Courtney Rome, PE**		Years of relevant experience with this employer	➲ 7	
Title	Bridge Engineer		Years of relevant experience with other employer(s)	➲ 8	
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering		
Active registration number / state / expiration date			PE.0043355 / LA / Exp. 9/30/25		
Year registered	2019 (LA)	Discipline	P.E./Civil		
Contract role(s) / brief description of responsibilities			**BRIDGE ENGINEER**		



Courtney is a civil engineering graduate of Southern University who served with the State of Arkansas Bridge Department for the first seven years of his career and joined Gresham Smith in October 2017. His emphasis has been with geotechnical design of bridge foundations, including scour and seismic concerns and with bridge hydraulics. He has received FHWA training (NHI- 135095) for Two-Dimensional Hydraulic Modeling of Rivers. Courtney has led the plan development for bridges designed with AASHTO LRFD Guidelines. His experience has included design of bridges, culverts and retaining walls, bridge ratings, and bid package development.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
6/19 – 10/23	**LADOTD, Complex Bridge Inspections, Statewide, LA.** Engineer. As an NHI Certified Bridge Inspector, Courtney performed bridge inspections for various complex bridge structures throughout Louisiana, including steel trusses, concrete structures and moveable bridges.
7/19 – Ongoing	**TDOT, Complex Bridge Load Ratings, Statewide, TN.** Project Engineer. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software. Courtney performed QC reviews on the load rating analysis and reports.
6/21 – 8/21	**FLDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL.** QA/QC. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic.
11/17 – 1/18	**TDOT, Off-System Underwater Bridge Inspections, Statewide, TN.** QC Reviewer. Courtney provided quality control reviews for the inspection reports and graphics. The project included over 50 bridges throughout Tennessee.
11/17 – 12/20	**MDOT, SR 178 Benton County Bridge Replacements, MS.** Engineer. Gresham Smith provided final design (Phase B) services for the replacement of two water crossings on parallel alignment. Both bridges include utilization of prestressed Florida I-Beams (FIB) to maximize span lengths while minimizing structure depths. Courtney performed the deck design and beam design services for a one-span (135-foot) and three-span (80- x 100- x 80-foot) structure and also completed the design of pipe piles for the pier bents.
7/18 – 12/21	**MDOT, SR 149 Simpson County Bridge Replacements, MS.** Engineer. Gresham Smith partnered with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D'Lo, Simpson County, Mississippi. Courtney served as Engineer-of-Record for the two longer structures (Bridge 128.2 and Bridge 128.6). This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.

Firm employed by **Gresham Smith**					
Name	**Jackson Hartley, EI**		Years of relevant experience with this employer	➲ 3	
Title	Bridge Engineer Intern		Years of relevant experience with other employer(s)	➲ 0	
Degree(s) / Years / Specialization			B.S. / 2021 / Civil Engineering		
Active registration number / state / expiration date			EI. 35058 / Exp. 9/30/2026		
Year registered	2022	Discipline	Civil		
Contract role(s) / brief description of responsibilities			**BRIDGE ENGINEER INTERN**		

As an engineering intern, Jackson is responsible for design and detailing support on transportation structures projects. He is also responsible for writing and compiling bridge inspection reports. Using MicroStation programs like OpenBridge and GEOPAK, he has assisted in bridge design and has participated in producing plan sets for various pedestrian boardwalks, sign structures, and bridge rehabs. He has also developed Mathcad and Excel sheets to assist in bridge design calculations and reviews.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
6/21 – 10/22	**LADOTD, Complex Bridge Inspections, Task Order #6, Statewide, LA.** Bridge Engineer Intern. Retainer project for various movable bridge inspections. Jackson assisted with site inspections of movable bridges including Bridge 009130, Charington Swing Bridge, Bridge 005860 Jeanerette Swing Bridge, and Bridge 003450 Boudreaux Canal. Jackson has performed photo log preparation and stream bed analysis for the Boudreaux Canal Bridge. Jackson participated in the site inspections and photo documentation as a summer intern and has progressed.
11/22 – 10/23	**LADOTD, Complex Bridge Inspections, Task Order #6, Statewide, LA.** Bridge Engineer Intern. Retainer project for various movable bridge inspections. Jackson provided support and performs site assessments for the partial re-inspection of bridges throughout LADOTD District 62.
9/21 – 11/21	**MDOT, MS-493 Bridge Replacements, Lauderdale County, MS.** Bridge Engineer Intern. Jackson is assisting bridge services during construction (Phase C) work for the replacement of two stream crossing bridges in Lauderdale County, MS. The design includes a curved structure alignment and a sharply skewed bridge alignment. Modified FIB concrete beams, similar to DOTD's LG-25 girders, were utilized to minimize the structure depth in order to meet hydraulic requirements.
6/21 – 8/21	**Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL.** Bridge Engineer Intern. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic. Jackson assisted with cataloging the drone videos and photographs and also assisted with the report formatting.
2/22 – Ongoing	**Florida DOT District 2, SR A1A Trail from Marineland to Fort Matanzas, St. Johns and Flagler Counties, FL.** Bridge Engineer Intern. Jackson is preparing bridge design CADD plans including the bridge typical section. This 2.7-mile trail project from Marineland to Ft. Matanzas includes an alignment study, trail design, drainage design, stormwater permitting, re-decking of two existing bridges to accommodate the new trail, 2000' of retaining walls, coastal modeling, and public involvement.

Firm employed by **Gresham Smith**					
Name	**Rebecca Murray, PE, PTOE, RSP1**		Years of relevant experience with this employer	➲ **9**	
Title	Traffic Engineer		Years of relevant experience with other employer(s)	➲ **0**	
Degree(s) / Years / Specialization			Bachelor of Science / 2015 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date			P.E.0043788 / LA / Exp. 3/31/26 | PTOE 4861 / Exp. 3/26/26 | RSP1 611 / Exp. 4/5/27		
Year registered	2019 (PE); 2020 (PTOE); 2021 (RSP1)	Discipline	P.E./Civil, PTOE, RSP1		
Contract role(s) / brief description of responsibilities			**TRAFFIC ENGINEER**		

Rebecca has worked in various roles and responsibilities on a variety of projects including interchange and corridor studies, traffic signal design plans, Adaptive Traffic Signal Control (ATSC) plans, traffic impact studies, and traffic modeling as well as feasibility and concept studies. Her responsibilities for these projects include reviewing traffic volumes and crash data to develop traffic models, develop proposed alternatives and perform analysis on the alternatives. She has experience modeling existing and proposed roadway networks in analysis software such as Synchro, Sidra, HCS, and VISSIM. Rebecca has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/16 – 3/17	**LADOTD, SRTS/LRSP Task Order 2: McMillan Street Traffic Study, Monroe, LA** Pre-Professional. Rebecca's role on the project was to review and analyze traffic count data, distribute trips throughout the study area, evaluate crash data and analyze proposed improvement alternatives.
8/22 – Ongoing	**City of Gonzales, US 61 Superstreet (Lowes to LA 44), Gonzales, LA** Lead Engineer. Gresham Smith is currently performing the design to convert this section of US 61 to a Superstreet. This design will remove all of the uncontrolled median breaks and replace them with directional median U-Turn or J-Turn with exclusive turn lanes. These JTurns will be controlled by a 2 phased traffic signal which will only stop one direction of US 61 so that the U-Turns can be made. Additionally, the existing signalized intersection of US 61 at Lowes and US 61 at LA 44 will be converted to Restricted Crossing U-Turns (RCUTs).
10/28 – Ongoing	**LADOTD, LCG Adaptive Traffic Signal System, Lafayette, LA** Traffic Engineer. Gresham Smith was selected to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading 190 traffic signal controllers. In addition, 78 traffic signals will be upgraded to become adaptive traffic signals. This will be the largest adaptive traffic signal system installed within the state of Louisiana. This project includes field inspection of 190 traffic signals, design plans for 78 adaptive signals, implementation of a new EVP system, integration support, and before travel studies. Rebecca is responsible for coordinating field data collection, travel time studies and developing design of traffic signals.
4/18 – 5/19	**LADOTD, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA** Pre-Professional. Gresham Smith developed a TMP for the Rubbelization and Overlay on I-10 between I-210 and the LA 108 Interchange. Included the mill and overlay of I-10, widening two flat deck bridges on I-10 to add a lane, and replacing all of the concrete panels on I-10 through the LA 108 interchange. Traffic was moved to a C/D road within the interchange and cloverleaf ramps were closed during construction. Two temporary traffic signals were designed to facilitate traffic at this interchange, and this project included data collection and queue and safety analyses and traffic signal design. Rebecca assisted with traffic counts and queue analysis, safety analysis, alternate route/detour analysis, temporary traffic control, and development of the TMP report.
8/22 – 12/23	**LADOTD, LRSP TO #6 LA 14 – US 90 to Power Center Parkway Traffic Report, Lake Charles, LA** Traffic Engineer. Gresham Smith is analyzing no build and future conditions to identify possible pedestrian mitigation alternatives along LA 14 through the development of a traffic report. This report will also inform recommendations that improve safety/operation and access management.

Firm employed by **Gresham Smith**					
Name	**Alben Cooper III, PE, PTOE**		Years of relevant experience with this employer	➲ 1	
Title	Traffic Engineer		Years of relevant experience with other employer(s)	➲ 17	
Degree(s) / Years / Specialization			Bachelor of Science / 2006 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date			PE.0036291 / LA / Exp. 9/30/25 | PTOE 3206 / Exp. 5/2/27		
Year registered	2011 (PE); 2012 (PTOE)	Discipline	P.E./Civil; PTOE		
Contract role(s) / brief description of responsibilities			**TRAFFIC ENGINEER**		

With over 15 years of experience in transportation engineering, Alben has been the project manager/engineer on a variety of transportation projects including: safety studies, feasibility studies, signal design and timing of coordinated systems, geometric design, striping and signage design, traffic impact analysis, and transportation management plans. He has also performed studies for intersection/corridor operation and safety improvements including pedestrian facility upgrades. Alben has managed and provided construction administration services for temporary and permanent traffic signal design, geometric design, and striping and signage design. He has developed/managed sequence of construction and traffic control device plans for large construction projects.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/19 – 08/20	**St. Tammany Parish, Roundabout Study, St. Tammany Parish, LA** Quality Assurance/Quality Control (QA/QC). The project team evaluated converting the intersections of US 90 at Northshore Blvd, LA 59 at Lonesome Rd and LA 59 at Sharp Rd to roundabouts. Alben conducted QA/QC of SIDRA software input and results. The study concluded with recommendations for roundabout at each location.
7/19 – 8/20	**Jefferson Parish, MSY Roundabout Evaluation, Jefferson Parish, LA** Lead Engineer. As the lead engineer Mr. Cooper was responsible for the analysis of various scenarios to estimate the design life of the existing roundabout located at the entrance/exit of the MSY airport in Jefferson Parish, LA. Analysis was performed for various growth rates using Synchro software. Additional analysis was also performed for two potential improvements to the roundabout to determine if they would extend the design life of the intersection. The results of the analyses were graphed and summarized in a letter by Mr. Cooper. The information was provided to be included in a presentation for airport personnel for consideration.
8/20 – 7/21	**Jefferson Parish, Manhattan Blvd Northbound Widening Signal Modifications, Jefferson Parish** Lead Engineer. Alben was the lead engineer for a signal modification project to accommodate an additional northbound lane on Manhattan Blvd from 9th St to Gretna Blvd. Modifications were required at two intersections, Target Blvd and Gretna Blvd. Additional modifications were required based on the relocation of utilities along the corridor. Mr. Cooper performed QA/QC for each of the signal designs.
11/17 – 1/18	**City of Temple, Planning\PLDV-2021.0012 Temple Mobility Master Plan** QA/QC. Alben provided Quality Assurance/Quality Control (QA/QC) services for the City of Temple Mobility Master Plan designed to guide the development and management of a state of the practice multimodal transportation system. His main role was to provide QA/QC services for the Synchro Software model which was developed based on TransModeler output including traffic volumes, intersections geometry and intersection control. Synchro models were developed for five (5) different scenarios.

17. FIRM EXPERIENCE

The DOTD will benefit from our firm's project experience, which includes all the relevancies required for this project. We will leverage this experience, along with best practices to mitigate risk to the DOTD, prioritizing traffic control, safety, and schedule.

Michael Baker Projects

 Prime consultant name: **Michael Baker International, Inc.**

Firm name	Michael Baker INTERNATIONAL		Past Performance Evaluation Discipline(s)*	Road, Bridge, Environmental
Project name	**US 371: KCS RR Overpasses HBI**		Firm responsibility (prime or sub?)	Prime
Project number	H.012030		Owner's name	Louisiana Department of Transportation and Development
Project location	Sibley & Minden, Louisiana; Webster Parish, Louisiana	Owner's Project Manager	Hamed Babaizadeh, PE	
Owner's address, phone, email	1201 Capitol Access Road Baton Rouge, Louisiana 70802 | 225-379-1033 | Hamed.Babaizadeh@LA.GOV			
Services commenced by this firm (mm/yy)	11/21	Total consultant contract cost ($1,000's)		$694
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$630

Michael Baker was selected by DOTD to provide bridge, structural, and transportation services for the replacement of three bridges along US 371 at two locations in Sibley, LA and Minden, LA. All bridges span KCS Railroad at two locations along their rail line. The existing bridge at Sibley, LA was built in 1934 and is currently a three span, steel girder bridge for a total length of 120' resting on concrete substructure. Bridge has sidewalks on both sides of the bridge and ties to existing sidewalks along the route. US 371 is a minor urban arterial with roughly 9% truck traffic along the route. Michael Baker design team is tasked with determining the most efficient and cost-effective bridge to replace the existing structure. A bridge structure report is required to determine if the new bridge will either be concrete or steel girder type. The new structure and road improvements will meet the latest DOTD design guidelines. One of the challenges at this location is the grade difference between the bridge and existing properties with the railroad underneath. Coordination with KCS railroad will help determine the final location of the bridge foundations in relationship with the rail line.

The two bridges at Minden, LA serve as part of the I-20 interchange at US 371. The bridges were built at different times around 1930 and both bridges are three span, steel girder bridges. One bridge is normal skew to the roadway while the other bridge was built on a skew aligning with the rail line. Like the Sibley site, US 371 is considered a minor urban arterial with roughly 9% truck traffic. Similar to the Sibley bridge, the design team will prepare a bridge structure report determining the most efficient and cost-effective bridges while minimizing impact to the local traffic. Being located at an interchange, additional challenges for these bridge replacements is the maintenance of traffic, phase construction, and shifting of traffic. At this location, one bridge will be removed and replaced while reducing travel to one-lane on the other bridge to keep roadway open to existing traffic. Design team is tasked with determining if the new bridge will be concrete or steel girder type while maintaining minimal adjustment to the existing roadway grade to reduce the amount of roadway necessary to tie to existing roadway.

Vectura Consulting Services, LLC is a sub-consultant to Michael Baker on this project and show coordination and collaboration efforts between firms.

Team Members: Daniel Thornhill, PE | Brandon Pitre, PE | Alison Gonzalez, PE | Jeffery McRae, PE | Shalin Sheth, PE | Eric Erikson, PE

RELEVANT TO IDIQ

- Roadway Design
- Stakeholder Coordination
- Structural/Bridge Design
- Hydraulics/Drainage
- Environmental Permitting

Firm name	Michael Baker INTERNATIONAL		Past Performance Evaluation Discipline(s)*	Road, Environmental
Project name	**Barksdale Air Force Base Entrance Roads (Design-Build)**		Firm responsibility (prime or sub?)	Prime
Project number	N69450-16-D-0100	Owner's name	NAVFAC SE	
Project location	Bossier Parish		Owner's Project Manager	Sarah Reed
Owner's address, phone, email	334 Davis Avenue West, Suite 105, Barksdale AFB, LA 71110 | 318-243-3902 | sarah.m.reed16.civ@us.navy.mil			
Services commenced by this firm (mm/yy)	08/22	Total consultant contract cost ($1,000's)		$2,031
Services completed by this firm (mm/yy)	05/23	Cost of consultant services provided by this firm ($1,000's)		$1,918

Michael Baker completed in May 2023 an alternative delivery design-build for Barksdale Air Force Base's entrance roads, coordinating with the owner and DOTD as well as obtaining the required project permits.

The Michael Baker design team developed construction plans per DOTD Design Guidelines and Standard Specifications. The beginning of the project is a direct tie to LA 1267 where it terminates after the KCS railroad crossing bridge constructed under the DOTD I-20/I-220 Design Build project. The roadway extension (BAFB Road) will continue as a four-lane divided highway as it enters the base property where it will transition to a new multi-lane roundabout. The roundabout is placed before the new base entrance gates and will allow for motorists that inadvertently exited onto LA 1267 to make a U-turn and return back towards the I-20/I-220 interchange without having to enter the Air Force Base. The new portion of BAFB Road is being built on the base property where a Corporate Endeavor Agreement was developed under the DOTD Design-Build project to allow for the completion of the roadway before entering the gates of the Air Force Base.

The Michael Baker design team has coordinated directly with DOTD I- 20/220 Project Manager, Corey Landry, and with DOTD I-20/220 Owner Verification Consultant Project Manager, Gordon Nelson. Additional requirements by the design team were to develop temporary traffic control (TTC) plans since the I-20/220 project was completed before this project was able to be constructed. The TTC plans identified one construction entry point along Ramp "EB-SB" and two construction exit points along Ramps "NB-EB" and the "C-D" road. Additionally, a project permit was prepared and submitted to DOTD District 4 for approval once DOTD gave verification of 100% acceptance of the project design.

LADOTD PROJECT EXPERIENCE

RELEVANT TO IDIQ

- Roundabout Design
- Roadway Design
- Hydraulics/Drainage
- Environmental Permitting
- Coordination with DOTD

The Michael Baker Environmental team was responsible for the transfer of the I-20/I-220 USCOE Permit from DOTD to the NAVFAC SE (owner of project). Additional efforts were done by the environmental team in regard to the requirements of the SWPPP, local parish permitting requirements, and coordination with DEQ in regard to water quality permits and requirements.

Team Members: **Daniel Thornhill, PE | Brandon Pitre, PE | Eric Erikson, PE, CFM | TJ Holliday | Elizabeth Brock**

Firm name	Michael Baker INTERNATIONAL		Past Performance Evaluation Discipline(s)*	Road, Environmental	
Project name	**LA 30: EBR PL – I-10**			Firm responsibility (prime or sub?)	Prime
Project number	H.013797		Owner's name	Louisiana Department of Transportation and Development	
Project location	Ascension, Iberville, East Baton Rouge Parish, Louisiana		Owner's Project Manager	Corey Landry, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-1889 | Corey.Landry@LA.GOV			
Services commenced by this firm (mm/yy)		04/22	Total consultant contract cost ($1,000's)		$1,054
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm ($1,000's)		$387

Michael Baker was selected to perform the Environmental Assessment for the widening of LA 30 from the East Baton Rouge Parish line to Interstate 10. LA 30 is currently a mixture of two-lane and threelane roadway with residential, industrial, and commercial developments. LA 30 corridor is experiencing rapid growth in the industrial and retail commercial businesses.

LADOTD PROJECT EXPERIENCE

Additionally, DOTD is currently performing an environmental study for the construction of a new Mississippi River Bridge which may tie close or directly with LA 30. Specific coordination is between the LA 30 and Mississippi River Environmental teams is crucial to make sure both project progress without major issues. Atlas is currently working on the Mississippi River project and Michael Baker on LA 30 Corridor. Current Coordination and Collaboration between both firms and proximity to LA 429
Connector will provide efficient and seamless development of environmental document.

The environmental study is broken into two Phases: PEL Study Part 1 and PEL Study Part 2. Michael Baker's responsibilities include Traffic Impact Study, Line & Grade, Environmental Field Data Collection, SUE Services, and Environmental Documentation. The Traffic Study portion of the project requires the team to collect existing traffic counts along LA 30 along with turning movements at driveways. Michael Baker team will use the traffic counts to determine recommendations for the required improvements to carry forward during the study phase. Michael Baker team will host public involvement meetings to gather public input for the recommended alternatives. The public comments will be incorporated into the final documentation of the Environmental Assessment Document. The Michael Baker team will conduct SUE services due to the number of industrial pipelines that parallel LA 30 on both sides of the road. As part 2 of the PEL Study, the Michael Baker team will develop the environmental assessment document. An initial document will be created and reviewed during the public involvement process and after finalizing addressing public comment, the final document will be developed and published. Once FHWA finds a record of decision (ROD) and Finding of No Significant Impact (FONSI), the Environmental Assessment document will be published and distributed to the public for
final record.

RELEVANT TO IDIQ

- Corridor Development
- Utility Coordination
- Hydraulics/Drainage
- Environmental Clearance

Team Members: Daniel Thornhill, PE | Brandon Pitre, PE | Alison Gonzalez, PE | Chris Gesing, PE | Eric Erikson, PE, CFM | Aaron Dunavant, PE | Alexis Harrouch, EI | Justin West, EI, CFM | Afaq Durrani | TJ Holliday | Elizabeth Brock | Stephen Martin

Firm name	Michael Baker INTERNATIONAL			Past Performance Evaluation Discipline(s)*	Road, Bridge, Environmental
Project name	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program – District 07 – Initial Services and Additional Services**			Firm responsibility (prime or sub?)	Prime
Project number	H.015338	Owner's name		Louisiana Department of Transportation and Development	
Project location	District 07 Parishes, Louisiana			Owner's Project Manager	Amanda Ranck, PE
Owner's address, phone, email	1201 Capitol Access Road Baton Rouge, Louisiana 70802 | 225-379-1338 | Amanda.Ranck@LA.GOV				
Services commenced by this firm (mm/yy)	10/22	Total consultant contract cost ($1,000's)		$2,450	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$1,450	

Michael Baker was selected by DOTD to provide bridge, roadway and environmental services for the replacement of off-system bridges in the five parishes (Allen Parish, Beauregard Parish, Calcasieu Parish, Cameron Parish and Jefferson Davis Parish) located in DOTD District 07. This off-system bridge program is being 100% funded by the recently passed IIJA bill. DOTD allocated $30.3 million of funding for District 07 for the implementation cost (construction, design, mitigation, right-of-way acquisition and utility relocation) for the replacement of bridges in this district. Structures will be replaced with Culvert(s), Box Culvert(s), or Slab Span Bridges that are available in DOTD Standard Plan catalog.

District 07 currently has 62 bridges classified as in poor condition with another 11 classified as fair condition that qualify for the IIJA funding. Michael Baker's initial scope was to meet all five parish representatives (Parish Engineers or Policy Jury) to determine the bridge replacement priority list. After meeting with Parishes, Michael Baker reviewed each bridge on the priority list against the inspection reports provided in the DOTD Asset Management Portal. The inspection reports were used to determine the type of bridges being replaced and to help determine if additional right-of-way (ROW) would be required and if utilities need relocation.

Two deliverables were required for the initial phase: Preliminary Screening Matrix (PSM) and Recommended Bridge Structure List (RBSL). The Preliminary Screening Matrix took into account a variety of constraints: environmental, design, ROW, and utility relocations. Michael Baker team used available database resources or meeting with agencies to determine the environmental constraints not limited to Archaeological sites, Tribal Lands, Wetlands, T&E Species, Section 4(f) and 6(f) lands, etc. These constraints were used to help determine if bridge priorities needed adjustment. Based on the PSM, the RBSL was developed based on the implementation cost for each structure.

RELEVANT TO IDIQ

- Roadway Design
- Bridge Design
- Roadway Drainage
- Construction Plans w/ Compressed Schedule

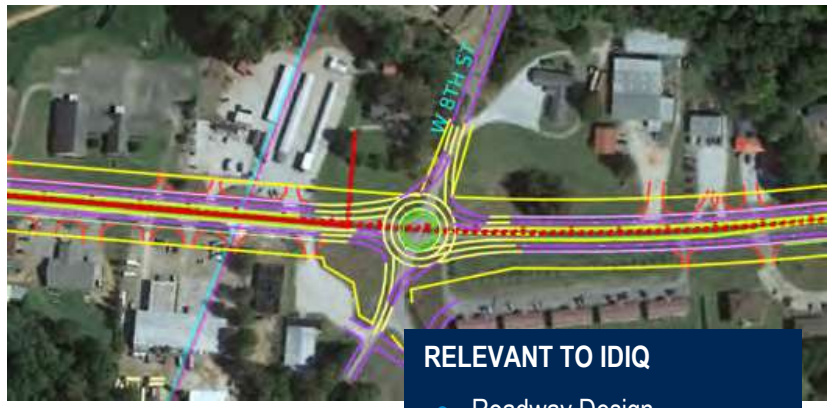
Michael Baker received NTP in May 2023 for Additional Services that includes the construction plan preparation of 12 bridges for District 07. Additional work includes Topographic Surveys, ROW mapping, Stream Hydraulics/Hydrology, determine bridge structure (slab span, box culvert, or culvert) based on hydraulic analysis, Preliminary and Final Plans, along with Environmental Clearance. Program delivery is expected to follow compressed timeline with removal of some of the traditional submittals that will follow very similar to this IDIQ contract.

Firm members involved include: **Daniel Thornhill, PE | Brandon Pitre, PE | Alison Gonzalez, PE | Eric Erickson, PE, CFM | Shalin Sheth, PE | Justin West, EI, CFM | Afaq Durrani, EI | TJ Holliday | Elizabeth Brock**

Firm name	Michael Baker INTERNATIONAL		Past Performance Evaluation Discipline(s)*	Road
Project name	**SR 15 Pontotoc Feasibility Study**		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Mississippi Department of Transportation	
Project location	Pontotoc, Mississippi		Owner's Project Manager	Spencer Robinson
Owner's address, phone, email	401 North West Street, P.O. Box 1850, Jackson, MS 39215 | 601-359-7682 | srobinson@mdot.com			
Services commenced by this firm (mm/yy)	08/23	Total consultant contract cost ($1,000's)	$323	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$323	

This project is a feasibility study for the Mississippi Department of Transportation to identify solutions that will determine the needs for widening of SR 15 from US 278/MS 6 to SR 41/Main Street in Pontotoc, Mississippi to a four-lane boulevard section. The corridor is currently a mix of two-lane, three-lane (with center turn lane), and five-lane (with a center turn lane) sections. The key components of the study include the following:

1. Traffic Analysis including a traffic volume report and future year no-build and build operational analysis
2. Safety Analysis and crash analysis to review crash data and patterns to determine corrections for critical areas.
3. Access management evaluation under a four-lane Boulevard condition to improve safety and mobility of the congested corridor.



The Feasibility study includes desktop and field data collection, traffic analysis, safety analysis, environmental and planning analysis, conceptual traffic engineering, development and high-level design including two build concepts for 26 intersections along the road. It also includes planning level cost estimates, agency coordination, and coordination with the public via a public meeting. The 26 intersections are being studied for traditional signals along with roundabouts at strategic locations that benefit traffic operations. Left turns with bulb-outs (J-turns) are required at certain locations along the corridor to facilitate turn movements and minimize travel times.

RELEVANT TO IDIQ

- Roadway Design
- Project Coordination with State Agency
- Followed State Agency Design Guidelines

Team Members: Daniel Thornhill, PE | Brandon Pitre, PE | Kenny Collins, PE | TJ Holliday, PWS | Alexi Harrouch, EI

Vectura Consulting Services, LLC Projects

 Prime consultant name: **Michael Baker International, Inc.**

Firm name	**Vectura Consulting Services, LLC**	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project name	**I-10 ITS Scott to Lake Charles**	Firm responsibility (prime or sub?)	Sub
Project number	H.013256.5	Owner's name	Louisiana Department of Transportation and Development
Project location	I-10 (District 07)	Owner's Project Manager	Roy Esteven, PE
Owner's address, phone, email	201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-2527, Roy.Esteven@LA.gov		
Services commenced by this firm (mm/yy)	01/21	Total consultant contract cost ($1,000's)	$20
Services completed by this firm (mm/yy)	03/21	Cost of consultant services provided by this firm ($1,000's)	$20

Vectura performed a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included the following activities:

- safety strategy that included a CAT Scan,
- LOS determination utilizing Citrix data,
- lane closure recommendations based on a queue analysis,
- cost estimate,
- and public information strategies.

Applicable for this project {Required (✓)}	Level 2 TMP Components	Stage 0	Stage 1	Stage 3		Workflow Notes
				Preliminary 60% Submittal	Final 90% Submittal	
	Analysis	**Percent Complete**				
	• Detour Analysis	100%				①
	• Queue Analysis according to EDSMVI.1.1.4	100%				①
	Documentation	**Percent Complete**				
✓	• TTC Details			50%	100%	⑦
	• TTC Plan (based on type and location of construction)			50%	100%	⑦
	• Mitigation (if the current roadway is LOS F)	60%	100%			④
	• Mitigation (if the roadway is on the Abnormal Crash Location list)	60%	100%			④
	• Evacuation Strategy (if used as an evacuation route)	100%				④
	• Work Restrictions	20%	50%	70%	100%	④
✓	• Basic Public Information release at the District level			60%	100%	⑧

RELEVANT TO IDIQ

- Traffic Management Plan

Team Members: Brin Ferlito, PE, PTOE | Laurence Lambert, PE, PTOE | Reece Rodrigue, PE, PTOE | Kristen Farrington, PE, PTOE

Firm name	**Vectura Consulting Services, LLC**	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project name	**Belle Chasse Bridge & Tunnel Replacement PPP**	Firm responsibility (prime or sub?)	Sub
Project number	H.004791	Owner's name	Louisiana Department of Transportation and Development
Project location	Belle Chasse, LA	Owner's Project Manager	Nickolas Olivier, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1133, Nicholas.olivier@la.gov		
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)	$211
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$211

Vectura is providing the traffic engineering services for the Belle Chasse Bridge & Tunnel Replacement Project for improvements along LA 23. Vectura is responsible for the following tasks:

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- Assist the Prime with Traffic Management Plan (TMP)
- Response to request for information (RFI's)
- As-built plans for the traffic signals

RELEVANT TO IDIQ

- Traffic Management Plans

Team Members: Brin Ferlito, PE, PTOE | Laurence Lambert, PE, PTOE | Reece Rodrigue, PE, PTOE

Firm name	**Vectura Consulting Services, LLC**	Past Performance Evaluation Discipline(s)*	Traffic, Road
Project name	**I-20: LA 544 Overpass Replacement**	Firm responsibility (prime or sub?)	Sub
Project number	H.010616	Owner's name	Louisiana Department of Transportation and Development
Project location	Baton Rouge, LA	Owner's Project Manager	Jacob Fusilier
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1185, Jacob.Fusilier@la.gov		
Services commenced by this firm (mm/yy)	04/23	Total consultant contract cost ($1,000's)	$131
Services completed by this firm (mm/yy)	10/23	Cost of consultant services provided by this firm ($1,000's)	$131

Vectura performed a Level 2 **Traffic Management Plan (TMP)** that included the following activities:

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- Traffic Management Plan (TMP)
  - safety strategy that included a CAT Scan,
  - LOS determination utilizing Citrix data,
  - lane closure recommendations based on a queue analysis,
  - cost estimate,
  - and public information strategies.

Team Members: Brin Ferlito, PE, PTOE | Reece Rodrigue, PE, PTOE | Laurence Lambert, PE, PTOE | Kristen Farrington, PE, PTOE

RELEVANT TO IDIQ

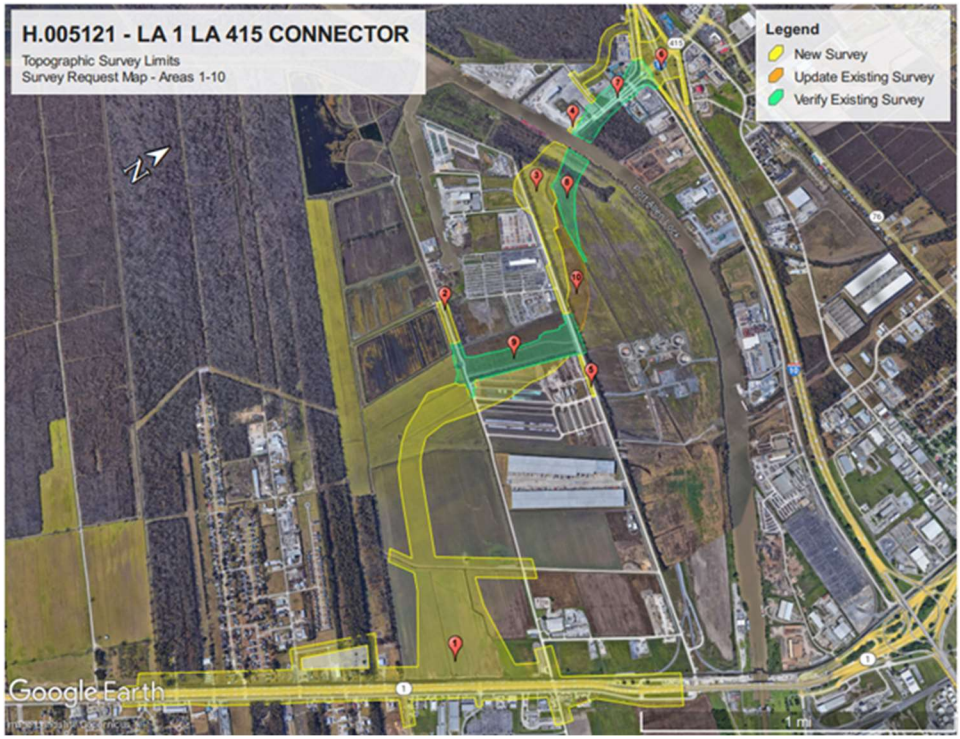
- Traffic Management Plan (TMP)

SJB Group, L.L.C. Projects

 Prime consultant name: **Michael Baker International, Inc.**

Firm name	SJBGroup	Past Performance Evaluation Discipline(s)*	Survey
Project name	**LA 1 to LA 415 Connector Topographic Survey**	Firm responsibility (prime or sub?)	Prime
Project number	H.005121	Owner's name	Louisiana Department of Transportation and Development
Project location	Port Allen, West Baton Rouge Parish, Louisiana	Owner's Project Manager	Jonathan Herrod
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 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)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$1,117

SJB Group was contract by LA DOTD in October 2023 to provide field data for the final design of a roadway to connect LA 1 to LA 415 which was a supplement to previously performed surveying in 2019 for realignment due to recent development and construction. Erick Kidder served as Party Chief for this effort under the direction of Elvis Nguyen who served as Field Crew Manager for the duration of 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. Also included was an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas. The SJB Group team collected data of the current conditions within the project limits and merged the current data with the previous survey data and updated any observed condition changes. 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 Specialist, Phillip Dowden led Mobile LiDaR 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.



LADOTD PROJECT EXPERIENCE

RELEVANT TO IDIQ

- Topographic Survey
- Field Data Collection
- Location and Survey Guildelines

Team Members: Elvis Nguyen | Erick Kidder | Phillip Dowden | Charles "Tim" Brewer, PLS

Firm name	SJBGroup	Past Performance Evaluation Discipline(s)*	Right-of-Way
Project name	**I-10: LA 415 to Essen on I-10 and I-12**	Firm responsibility (prime or sub?)	Prime
Project number	H.004100.5	Owner's name	Louisiana Department of Transportation and Development
Project location	East Baton Rouge Parish	Owner's Project Manager	Steve LeBlanc, PLS
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 | (225) 379-1105 | joseph.arretteig@la.gov		
Services commenced by this firm (mm/yy)	06/21	Total consultant contract cost ($1,000's)	$193
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$193

Led by Project Manager, Charles "Tim" Brewer, SJB Group, LLC served as the prime consultant providing property surveying services along a 4.4-mile stretch of Interstate 10 from St. Joseph St. to College Dr. in East Baton Rouge Parish, Louisiana for the Louisiana Department of Transportation and Development's widening project. To begin, the SJB Group team conducted extensive title research to acquire the necessary existing surveys and deeds (in addition to the substantial amount of review of the title research reports supplied to SJB by LADOTD). Field work was led by Elvis Nguyen with Erick Kidder serving as party chief to survey and map more than one hundred parcels along the project corridor, which range in size from small urban residential lots to large commercial tracts. Additionally, the SJB Group team also surveyed and mapped extensive existing drainage servitudes, a railroad right-of-way, and numerous side streets in the heart of Baton Rouge. Principal & CEO, Matthew Estopinal, served as lead QA/QC for the project.

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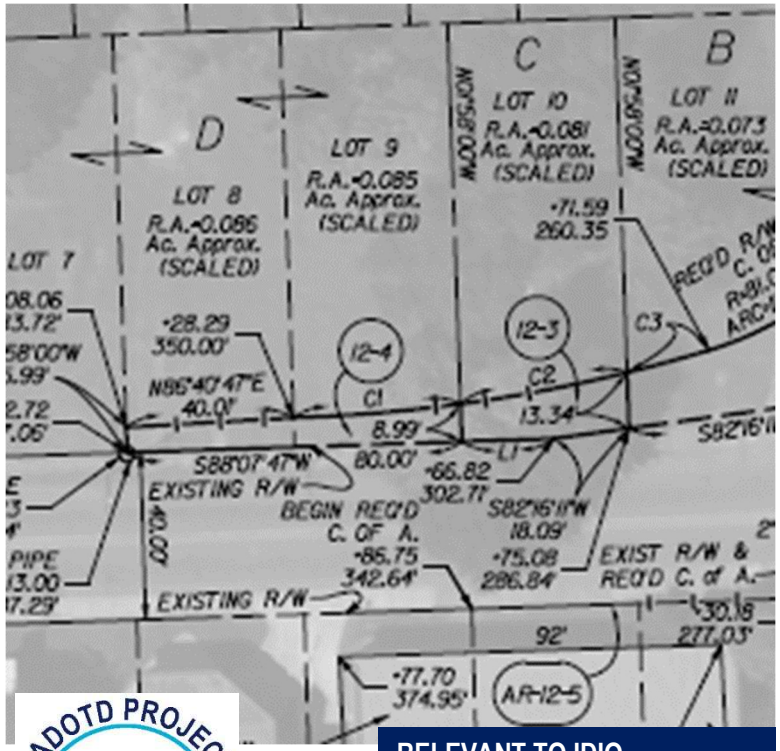
Team Members: **Elvis Nguyen | Erick Kidder | Matthew Estopinal, PE, PLS | Charles "Tim" Brewer, PLS**



LADOTD PROJECT EXPERIENCE

RELEVANT TO IDIQ

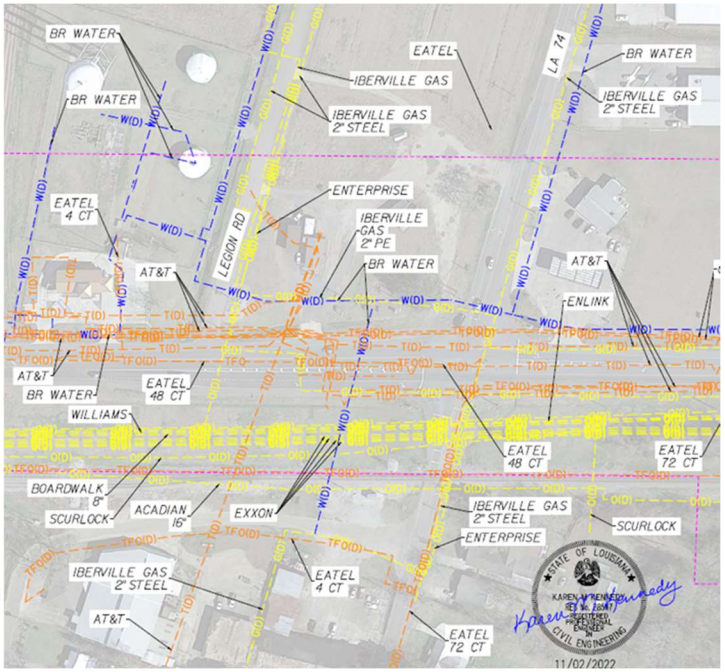
- Property Survey
- Base Maps
- Right-of-Way Maps
- Seritudes

Firm name	SJBGroup	Past Performance Evaluation Discipline(s)*	Other (SUE)
Project name	**LA 30: EBR PL – I-10**	Firm responsibility (prime or sub?)	Sub
Project number	H.013797	Owner's name	East Baton Rouge Parish
Project location	Ascension, Iberville, East Baton Rouge Parish, Louisiana	Owner's Project Manager	Corey Landry, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-1889 | Corey.Landry@LA.GOV		
Services commenced by this firm (mm/yy)	04/22	Total consultant contract cost ($1,000's)	$74
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$74

Led by Matthew Estopinal and Karen Kennedy, SJB Group provided provide Property Surveys, GIS, LiDAR Scanning, and Subsurface Utility Engineering (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 is in need of significant additional roadway capacity. Careful planning is required to ensure a successful project addressing all potential impacts including existing utilities which is often times the driving factor in the design of a project.

Austin LaCombe supported this project by providing 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.

SJB Group developed the property boundary maps by obtaining parcel shape files and converting them to State Plane Coordinates. SJB Group also reviewed the LIDAR data provided by LA DOTD to confirm that accurate and sufficient data was provided as necessary for the development of design alternatives.



RELEVANT TO IDIQ

- SUE Quality Level "D"

Team Members: Matthew Estopinal, PE, PLS | Karen Kennedy, PE | Austin LaCombe, PE

Gresham Smith Projects

 Prime consultant name: **Michael Baker International, Inc.**

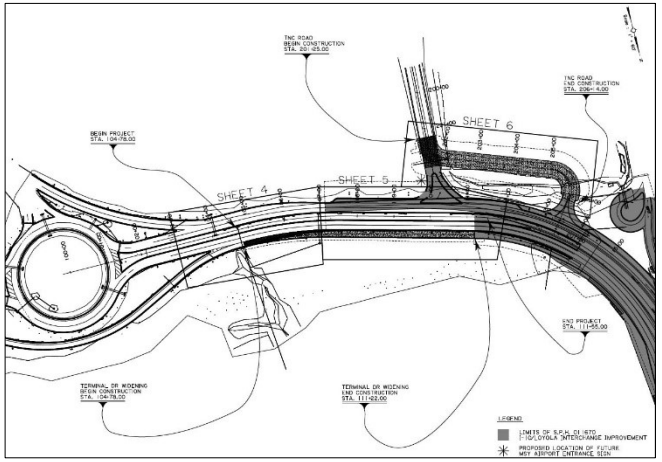
Firm name	**Gresham Smith**		Past Performance Evaluation Discipline(s)*		Road
Project name	**MSY – Task 4: Entrance Road Capacity**		Firm responsibility (prime or sub?)		Prime
Project number	N/A		Owner's name	New Orleans Airport (MSY)	
Project location	Kenner, LA		Owner's Project Manager	Kenny Boyd	
Owner's address, phone, email	1 Terminal Dr., Kenner, LA 70062 | (303) 641-9729 | ksboyd@burnsmcd.com				
Services commenced by this firm (mm/yy)	03/21	Total consultant contract cost ($1,000's)	$180		
Services completed by this firm (mm/yy)	04/24	Cost of consultant services provided by this firm ($1,000's)	$180		

Executed under a general engineering contract, Gresham Smith is currently providing design and project management for the City of New Orleans to widen the main exit road at Louis Armstrong New Orleans International Airport (MSY) from 2 lanes to 3 lanes. The project includes widening of approximately 1/4-mile of roadway, extending the roundabout slip lane exit from the roundabout and tying into the design-build flyover project currently under construction (S.P. H.011670).

Additionally, Gresham Smith is tasked with the design of the new Transportation Network Companies (TNC) Uber lane roadway. This is a new alignment design which will realign the existing TNC Lane to a tie in point west of the existing location, tying into a turnout being constructed under the I-10 at Loyola Interchange Design-Build project. The completed new alignment roadway will provide access to a dedicated parking lot for ride-share vehicles approaching the airport and awaiting arrivals.

From the start, this project involved constant communication with both MSY Airport representatives along with coordination with the consultant for the I-10 at Loyola Interchange Design-Build project. A key aspect of this project was coordinating with the I-10 at Loyola Interchange Design-Build project which is currently under construction in order to facilitate a smooth transition for the widening of the roadway. This project was signed and sealed in April of 2022. Gresham Smith also provided on-going services CE&I services throughout the construction of the project. The project finished construction in April 2024 and is now fully operational.

Team Members: Bert Moore, PE, PLS, PTOE

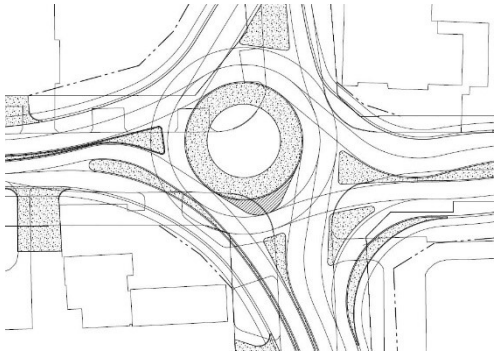


RELEVANT TO IDIQ

- Roadway Design
- Corridor Improvements
- Stakeholder Coordination

Firm name	**Gresham Smith**	Past Performance Evaluation Discipline(s)*	Road
Project name	**Hooper Road at Sullivan Road Roundabout Design**	Firm responsibility (prime or sub?)	Sub
Project number	H.002320	Owner's name	City of Central, LA
Project location	Central, LA	Owner's Project Manager	Toby Picard, PE
Owner's address, phone, email	13421 Hooper Road, Suite 8, Central, LA | (225) 379-1302 | toby.picard@la.gov		
Services commenced by this firm (mm/yy)	04/20	Total consultant contract cost ($1,000's)	$195
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm ($1,000's)	$195

This project was originally designed as an intersection improvement project to add left and right turn lanes at the intersection of Hooper Road (LA 408) at Sullivan Road (LA 3034). Due to the anticipated future traffic volumes, it was determined that a multi-lane roundabout would be more efficient and have a longer service life than the planned traditional signalized intersection. Gresham Smith was selected to design the multi-lane roundabout at the intersection of Hooper Road at Sullivan Road.



The intersection contains some major constraints which include a historic building in the Northeast quadrant of the intersection and a gas station in the Southwest quadrant of the intersection. The roundabout must accommodate both pedestrians and bicyclists as well as multiple approach lanes and free flow right turn lanes at select approach legs as required by LADOTD's conceptual traffic design to accommodate future projected traffic volumes.

Gresham Smith is tasked with the full roundabout design to be in accordance with LADOTD's Roadway Design Manual geometric requirements and LADOTD's Complete Streets Policy to accommodate both pedestrians and bicycles through this intersection. Determining the location of the roundabout is critical in balancing a good geometric design with minimal right-of-way impacts and utility conflicts. Gresham Smith is also tasked with the drainage design at the roundabout and approach legs and is responsible for developing typical sections, plan and profile sheets, cross sections, quantities and construction cost estimates. This project includes a conceptual design phase as well as both preliminary and final plan design.

RELEVANT TO IDIQ

- Intersection Improvements
- Environmental sensitive considerations
- Complete Streets

The roundabout design underwent several geometric reviews by DOTD, including a plan-in-hand meeting. The 100% preliminary plans were fully completed. However, construction funding issues led to scope adjustments for the intersection design, and the design reverted back to the signalized intersection for final plans. The project let in December 2022, and the design of the future roundabout is now being considered in a separate CMAR project.

Team Members: Bert Moore, PE, PLS, PTOE

Firm name	**Gresham Smith**	Past Performance Evaluation Discipline(s)*	Road
Project name	**SRTS/LRSP Task Order #6 and #21: Endom Bridge**	Firm responsibility (prime or sub?)	Prime
Project number	H.012279; H.012279.5	Owner's name	Louisiana Department of Transportation and Development
Project location	West Monroe, LA	Owner's Project Manager	Laura Riggs, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA | (225) 379-1143 | laura.riggs@la.gov		
Services commenced by this firm (mm/yy)	12/17	Total consultant contract cost ($1,000's)	$251
Services completed by this firm (mm/yy)	12/20	Cost of consultant services provided by this firm ($1,000's)	$222

As part of LADOTD's Local Road Safety Program (LRSP) retainer contract, Gresham Smith was tasked to develop operational and safety improvements at the west approach to the Endom Bridge located in West Monroe, Ouachita Parish. After a technical review of this intersection, Gresham Smith was selected to perform engineering and related services to prepare preliminary and final plans for proposed safety and operational improvements to the intersection of Coleman Avenue with North and South Riverfront Streets at the Endom Bridge approach.

The purpose of the improvements is to realign the Coleman Avenue approach to the Endom Bridge to improve intersection sight distance and safety for pedestrians and vehicles. This project will include pedestrian facilities including walking paths long Endom Bridge and the Ouachita River.

Gresham Smith's responsibilities were to oversee the topographic survey, coordinate with the local municipality, develop preliminary and final design plans to realign the intersection, right-of-way maps, specifications and construction cost estimates. This project was let for construction on December 9, 2020 with the apparent low bid only 5.14% over the estimate.

Before

After

RELEVANT TO IDIQ

- Milling Asphalt Pavement
- Traffic Maintenance
- Intersection Realignment
- Subsurface Drainage Design
- Truck Island Design
- Improved sight distance and safety
- Construction sequencing and detours

Team Members: Bert Moore, PE, PLS, PTOE | Richard Savoie, PE | Brennon Hughes, PE | Rebecca Murray, PE, PTOE, RSP1 | Ronnie Robinson, PE

18. APPROACH AND METHODOLOGY

PROJECT UNDERSTANDING

The Michael Baker Team understands that one of DOTD's most important contract vehicles at their disposal is through an Indefinite Delivery/Indefinite Quantity (IDIQ) contract. These contracts allow DOTD to fast-track projects that may become emergency, time sensitive, or financially constrained.

Michael Baker Team recognizes that task orders will be assigned for a variety of different projects ranging from intersection improvements (traditional/roundabout), drainage/hydraulic improvements, bridge replacement, and road widening/turn lane additions. Even though DOTD plans to handle all traffic assignments in-house, we have teamed with Vectura Consulting Services and Gresham Smith that have both specialized in traffic engineering for DOTD for number of years. If task order allows, our team can assist and reduce the workload for DOTD staff to focus on other state projects.

Our team has a strong working relationship with both District 03 and District 07 from our previous and current CE&I IDIQ contracts. Our staff has worked together with local district staff and have assisted in overseeing the construction of various types of projects that range from off system bridges, ITS, adaptive traffic signal installations, pavement leveling/panel replacement,interstate improvements and overlay, and major bridge decks replacement. Our design team collaborates with our construction staff during the design process to identify possible construction means and method issues with construction plans. Past and current projects for both District 03 and District 07 include:

- I-210: Prien Lake Re-Deck & Safety Improvements (District 07)
- I-10: Texas State Line – E. of Coone Gully (District 07)
- Reeds Br Rd over Calcasieu River Relief (District 07)
- Carpenter Bridge Rd over Whisky Chitto Creek (District 07)
- Nelson Rd Ext & Bridge (District 07)
- Lake Charles ITS (District 07)
- Adaptive Traffic Signal and Design Implementation (District 03 & Lafayette Consolidated Government)
- LA 352 Drainage Improvement (District 03)
- US 90 RR-Pinhook_LA 92-LA 88 (District 03)
- I-10: Jeff Dav PL – I-49(OGFC/Slab Repair) (District 03)

Michael Baker is currently working on IIJA District 07 – Off-System Bridge Replacement Program. Through this contract, our staff is preparing the construction plans for the replacement of 12 bridges in Allen, Beauregard, Calcasieu, Cameron, and Jefferson Davis Parishes. Our design team has been collaborating with both DOTD Headquarter and District staff during PIH meetings to verify utility conflicts, efficient design of roadway/bridge improvements to minimize impacts to local property owners and need for acquisition of right-of-way. Construction projects are expected to be let for construction in 2025-2026.

- Allen Parish – three (3) bridge sites
- Beauregard Parish – one (1) bridge site
- Calcasieu Parish – one (1) bridge site
- Cameron – one (1) bridge site
- Jefferson Davis – six (6) bridge sites

For additional information, please refer to project description location in Section 17.

APPROACH

The Michael Baker Team will rely on our 80+ years working for DOTs, along with our working relationships with our neighboring state agencies for quality project delivery in the IDIQ process. Michael Baker has assembled qualified teaming partners for their long-standing working relationship with DOTD and their abilities to deliver successful projects. Once the NTP is issued, our team will hit the ground running and move the project forward. We take pride in making sure we assign qualified staff that is knowledgeable in the DOTD project delivery process, while our senior level technical specialists lead the QA/QC review of construction plans.

Meeting DOTD Needs

As demonstrated in Section 14, Michael Baker has assembled our team that can deliver to meet DOTD's needs. We have multiple design teams ready to be assigned to multiple task orders, if the need arises. Our management team understands based on the project's scope and required efforts on which staff to assign to projects, and if single task orders are assigned, only the necessary resources to minimize impacts to project budgets will be implemented. Michael Baker in conjunction with Gresham Smith will provide roadway/drainage/general design experience to this project. Both firms have resources to provide multiple task leads, if necessary. Vectura will assist both firms during design and provide maintenance of traffic, striping, and signing support. SJB Group was brought on board to handle all surveying/right-of-way mapping needs. They have several survey crews ready to deploy based on the project scope. Their years of providing survey and right-of-way mapping support provides a fiscal benefit and efficiency to DOTD.

Managing the Budget

Our team understands the current DOTD backlog of projects and that every penny counts for delivery of projects to the citizens of Louisiana. Through our project manager, Brandon Pitre, and deputy project manager, Eric Erikson, both will work directly with Daniel Thornhill (PIC/Contract Manager) to develop the manhours and minimize the necessary resources for each assigned task order. Our management team will rely on our QA/QC and Construction staff to help mitigate project risk that arise during construction from change orders and project overruns.

Stakeholders

Project buy-in is crucial for the delivery of projects. Task Orders may require that local municipalities or other stakeholders be brought into coordination for the projects. Identifying key stakeholders early in the process is imperitive to a successful, and will be a priority for the Michael Baker Team.

METHODOLOGY

Timely Execution of Task Orders

Our team recognizes that the use of IDIQ contracts is to help streamline the delivery process of project. Through Daniel Thornhill, Contract Manager, and Brandon Pitre, Project Manager, our mission is to coordinate as quickly as possible with the DOTD Project Manager to identify the project scope and develop the manhour estimates accurately and in a timely manner. We will submit manhours to DOTD PM and collaborate as needed to negotiate the task order. DOTD is now utilizing digital signatures that have sped up the executing process.

Contract Management

IDIQ Roadway Design Services Contract | Award

Within 10 days of award notification, Michael Baker will provide the DOTD Project Manager with our teams' QA/QC Plan. The QA/QC Plan will be customized around the type of services to be provided and will include at a minimum below:

- The design team key personnel and their responsibilities
- Procedures for the design work, establishing the manuals and guidelines that will be followed during project implementation.
- Checklist submitted with each milestone.

Additionally, the MBI Project Manager will provide a list of all key personnel for each job classifications that align with the "Specific Rates of Compensation" list signed off by Daniel Thornhill, Contract Manager, that will be used for the duration of the IDIQ. Task Order compensations will vary based on the type of project. Compensation is expected to be either lump sum, specific rates, or not-to-exceed and should be negotiated within ninety-days (90). Michael Baker's project management staff will make all efforts to have contract manhours developed, submitted, and negotiated within thirty (30) calendar days, if not sooner.

Development of Task Order Scope | Initial project scope will be provided by DOTD PM. Michael Baker team will review the scope and limits of work to determine if adequate scope of work is provided, or if there should be recommendations of adjustment of scope. The Team will:

- Establish a scope with the DOTD Project Manager for the Task Order
- Develop a work hour proposal, identifying specific positions and anticipated hours to perform the scope, and all direct expenses anticipated.
- Break down scope and fee by prime and subconsultant labor and direct expenses, as required by DOTD Construction Contract Services (CCS).
- DOTD will provide a copy of the Notice of Task Order Execution (NOTOE) for review prior to requiring signature and insurance documentation.
- DOTD PM will setup task order folder on Projectwise to begin exchange of existing data and coordination with DOTD.
- Design Team will develop a CPM schedule for each task order and provide monthly updates with invoices. Some task orders may have short durations and coordination with the DOTD PM will determine if weekly or bi-weekly update meetings may be necessary.
- Design Team will make site visit of project locations to identify visible design constraints that would need to be addressed in the scoping phase of the project.

Stage 3: Design

Notice To Proceed of Each Task Order | Michael Baker team will become familiar with the scope of work and note any special project requirements (design exceptions, design constraints, potential required of right-of-way acquisition). The Michael Baker team will:

- Upon NTP, additional site visit may be necessary to confirm that the scope has been properly identified and no physical site changes have occurred.
- Review and finalize design criteria based on project scope and type.
- Determine and utilize the required DOTD design manuals/specifications/standards and the required minimum project guidelines.

Kickoff Meeting | Mr. Brandon Pitre will coordinate, schedule, and conduct the kickoff meeting with DOTD and necessary Michael Baker team members before work begins on each task order. The kickoff meeting will be used to:

- Verify project design criteria based on project type (road, bridge, drainage, intersection improvements, i.e.).
- Finalized frequency of design coordination progress meetings and submittal milestones.
- Request data that was identified in advertisement to be provided by DOTD (As-builts, traffic studies, feasibility studies, etc.)

Design team will review provided data to make sure the design team does not have any additional questions regarding the project requirements or to determine if any additional field data collection is necessary.

Every project identified in the task order may involve a single or multiple design services. At a minimum it is anticipated the workflow shown at the bottom of the page will be used for each project.

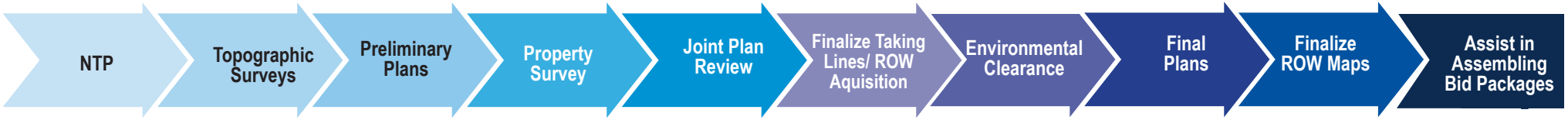
Topographic Surveys | SJB will provide surveying services for the duration of this IDIQ contract. If a task order issued by DOTD has existing survey, SJB along with design team will review the existing survey to make sure there is adequate coverage for the design of the project. If additional survey is required, a request form will be created and submitted to the DOTD PM to provide DOTD's Location and Survey department of the additional needs. If survey is not available, SJB will create survey limits of work for approval by the DOTD PM. Once approved, SJB will set control and provide the required control sketches for approval before commencing the field work for collecting the topographic survey.

All survey will meet DOTD Location and Survey manual requirements along with meeting DOTD CAD standards. A topographic field role will be provided to DOTD for final approval before the design team begins the Preliminary Design phase of the task order. DOTD Location and Survey section has alerted the consultant community that survey deliverables after July 1, 2025 will be required to submit in Open Roads Designer (ORD) format. SJB will be attending the necessary training in October 2024 and will have the DOTD trainer provide private follow-up training to make sure their staff is ready to make the transition for ORD deliverables.

Each task order is anticipated to have a condensed schedule; however, the design team will determine early if LiDAR, either provided by DOTD or collected from LSU Atlas mappings services, can be utilized while topographic survey is being collected. SJB has the capabilities to capture mobile LiDAR if it is determined to be useful for the project schedule and delivery. Design team will update design plans when collected topographic survey has been reviewed and signed off by Michael Baker. Michael Baker will provide an acceptance letter of approval to DOTD PM for both the control and topographic survey.

It is anticipated that SUE services may not be required or may be provided by DOTD (if available); however, If the project does not have SUE services already performed, SJB has staff ready to deploy to collect underground utility information. SJB will rely on their senior staff and their history of providing DOTD with SUE Services for the last ten (10) years.

Property Surveys | SJB will carry out field and office investigations of survey data and utilized title work provided by DOTD to prepare a Base ROW Map determining the existing right-of-way. Property surveys will tie to the same survey control established by SJB. The Base ROW Map will show all surveyed property lines and the existing ROW with geometric ties to the Project Centerline. Michael Baker Design team will utilize the Base ROW maps to finalize taking lines. SJB will then use these final taking lines to develop the ROW maps to be used to acquire any necessary ROW.



This workflow may vary based on the type of project.

SUE Services | Brandon Pitre will coordinate with DOTD PM to determine if SUE services are required for assigned project and which level of SUE services will be required. Karen Kennedy and/or Austin LaCombe will be task leads and the SUE services will be performed in accordance with Standard 38-22 Standard Guideline for the Investigating and Documenting Existing Utilities. SJB is familiar with DOTD policies and procedures and will conduct all work in accordance with these standards.

SJB staff will utilize industry-leading subsurface utility locating equipment, such as ground penetrating radar, air-assisted vacuum excavation, pipe and cable locators, and other nondestructive detection equipment to designate size, type, and depth of utilities. Each piece of equipment has specific benefits, and our experienced staff know which equipment to use in certain situations to designate size, type and depth of utilities.

SJB can provide SUE of all Quality Levels. They also have vast experience in performing utility coordination during design, pre-construction, and construction phases for DOTD projects.

Environmental Permitting | DOTD projects normally require environmental clearance or environmental permitting. If DOTD does not already have environmental clearance, Michael Baker team through TJ Holliday (Task Lead) has environmental professionals that can provide necessary field work and preparation of environmental permits and documents. The Michael Baker design team will support the environmental pros on preparing the necessary permit sketches. It is assumed that most of the projects issued by task order would fall under categorical exclusions (CE); however, if there is a need for NEPA clearance, TJ Holliday and Elizabeth Brock would provide this service. Michael Baker has been providing Environmental Clearance documentation for DOTD either through an EA or EIS for the last 20+ years.

Projects will not be allowed to move forward into the Final Design phase until all environmental clearances are completed and approved through DOTD Environmental Section.

Hydraulics / Drainage | Eric Erikson (task lead) and design team will address the hydraulics/hydrology design during early submittals of the preliminary design phase of the projects. Hydraulic/hydrology calculations/methodology will be based on the type of project per the task order. The design team will delineate drainage areas or review drainage maps provided by DOTD for existing topographic surveys. The hydraulics team will use DOTD Hydraulics Manual and HYDRWIN software to develop the hydraulic flows based off required design storm frequencies for the required type of drainage feature or structure. If project requires roadway drainage, It is anticipated that most of the hydraulic analysis will be done using HYDRWIN. If the project deals with streams or channels, the hydraulics team will determine if USGS or NRCS method along with building a hydrology model in HEC-RAS to determine the correct size of required drainage structure: a box culvert, cross drain, or bridge. Michael Baker's hydraulic staff has successfully performed hydraulic analysis and scour analysis for the 12 IIJA bridges sites in District 07. Additionally, our hydraulics team has developed HEC-RAS Models for the Louisiana Watershed Initiative, which covers a large portion of the District boundaries.

Hydraulics team will verify if the project area falls within flood zones by reviewing the latest approved FEMA Firm maps. This information will be provided to the design team to make sure the vertical grade of the project does not violate any floodplain requirements. No-Rise analysis and certificates will be provided as needed.

Traffic Management Plan | DOTD requires most of their construction projects to have the design teams develop a Traffic Management Plan (TMP). Our team assumes most of the projects would mainly fall under a Level 1 or Level 2 TMP; however, some projects may require the need for either a Level 3 or Level 4 TMP. Laurence Lambert (MOT Task Lead) and Vectura staff will provide this service for the Michael Baker team. Their staff has many years of experience providing DOTD with the required TMPs especially on complex projects such as the on-going Belle Chasse P3. Vectura will provide TMPs that follow the existing DOTD policy to get approval from DOTD Traffic Engineering Section.

PRELIMINARY PLANS AND FINAL PLANS

Michael Baker team was assembled for its experience with DOTD's project delivery process. Our team members have developed designs for DOTD projects for many years, following the latest roadway/bridge requirements as set in the minimum design guidelines, roadway and bridge design manuals, EDSMs, hydraulics manual, DOTD standard plans/specifications and other pertinent design manuals/guidelines.

EXPECTED DESIGN MILESTONES & SUBMITTALS

60% PRELIMINARY PLANS
- Project & Adopted Horizontal / Vertical Alignments
- Updated Exist. Drainage Map / Proposed Drainage Map
- Hydraulics calculations and Preliminary Drainge report
- Permit sketches for environmental clearance.
- Initial Cost Estimate
- *Construction Plans:* Title Sheet, Typical Sections, early Quantities, P&Ps, Drainage P&Ps, exist. / proposed Drainage Maps, Geometric Details, initial taking lines, seq. of construction, earthwork computations, cross sections

95% PRELIMINARY PLANS (PLAN-IN-HAND)
- 60% Preliminary Plans comments/revisions
- Initial General Bridge Plan
- Construction Plan Sheets
- Sheets from 60% Preliminary Plans
- Striping / Signing Plans
- Updated Quantities
- Revised cost estimates
- Updated permit sketches for environmental clearance.

100% PRELIMINARY PLANS
- 95% Preliminary Plans comments / revisions
- Final hydraulics report
- Sheets from 95% Preliminary Plans
  - Graphical grades
  - ROW maps
- Final taking lines for ROW mapping / acquisition.
- Revised cost estimates

60% FINAL PLANS
- Update 100% Preliminary Plans w/ latest comments
- Sheets from 100% Preliminary Plans
  - Joint Layouts, if required.
  - Temporary signal design, if required,
  - Revision to hydraulics design / report, if any changes are required.
  - Bridge Plans
- Bridge analysis and bridge design
- Updated cost estimate

95% FINAL PLANS (ADVANCE CHECK PRINTS)
- 60% Final Plans comments / revision
- Final QA/QC Check, Constructability review form, Special Provisions
- Update Quantities submittal to LADOTD
- Initial PS&E package (special provisions and non-typical pay item specifications)
- Revised cost estimates

98% FINAL PLANS / 100% FINAL PLANS
- ACP comments / revisions
- Final Quantities & Cost Estimates.
- Revise PS&E Package
- Final bridge and road design report
- Stamped and sealed plans

The Michael Baker design team's main focus is meeting deadlines for DOTD funding requirements, and we also embrace the latest design technology to expedite project delivery. Our design team will continue to follow the DOTD Electronic Delivery Process and ensure plans have been approved through the CADConform process. Where applicable, and in coordination with the DOTD PM, we will apply our in-depth knowledge of ORD. By using ORD to expedite project delivery for other DOTs, we have firsthand experience with the benefits of developing plans using this platform. Designing 3D proposed surfaces with Inroads SS2 can be time-consuming; in contrast, ORD creates 3D surfaces on alignment intelligence that update instantaneously as changes are made. Having designed roundabouts/ intersection/roadways with both SS2 and ORD, our staff and our clients can speak to the benefits of seeing the 3D modeling of the project in real time as changes are made and templates are assigned. All surfaces created through ORD can be saved into a format compatible with Inroads SS2.

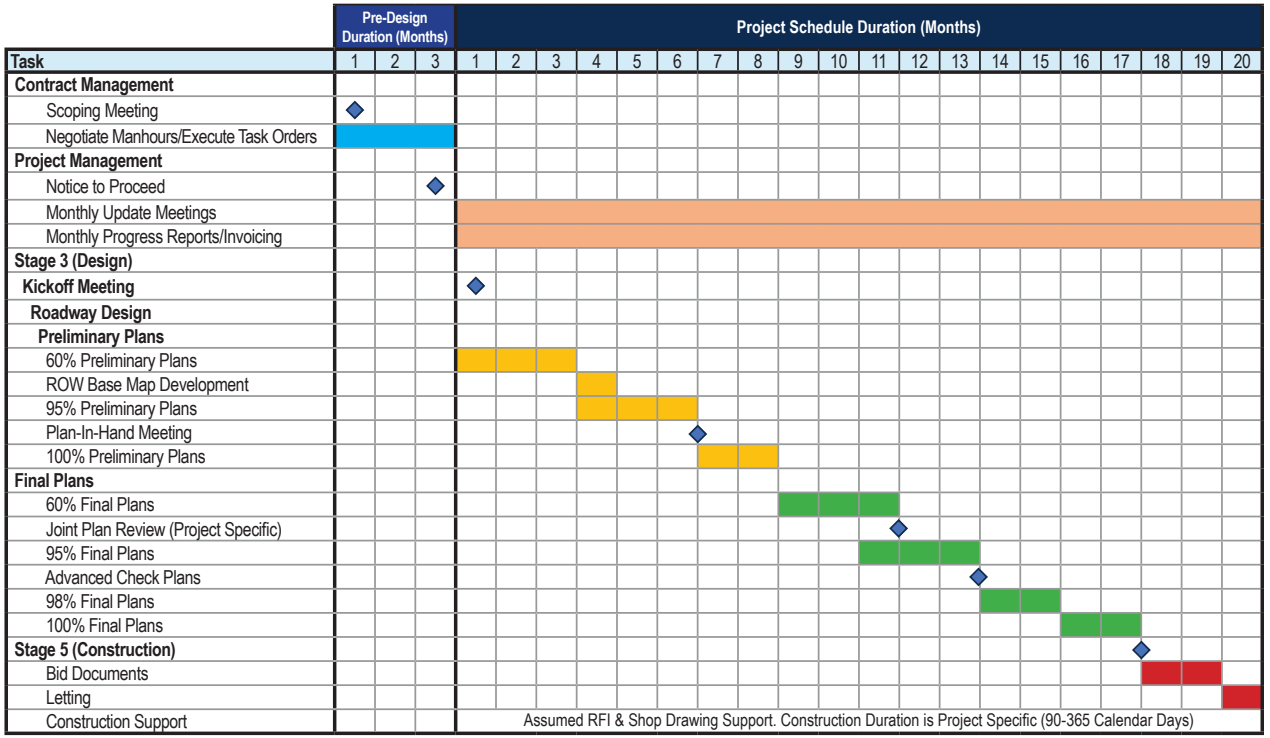
QA/QC | Michael Baker will provide our design teams with an a QA/QC manual. This manual will be the basis of our team's quality control and quality assurance for each submittal milestone; however, we will supplement this manual with all required DOTD checklists for the different milestones. Each task order will provide a QA/QC manual that aligns with scope of work (Roadway, Bridges, Hydraulics, etc.) Our team will also perform independent technical design reviews at all submittal milestones by team members who are not directly associated with the progression of the project. These reviewers will check the construction plans for accuracy and compare them to the roadway design calculations and design guidelines. Our team will coordinate these reviews with our company document control specialist personnel for record keeping of correspondence between the Michael Baker PM, Brandon Pitre, and the assigned DOTD PM, including DOTD review comments, Michael Baker design team's response to comments, design calculations, and analyses.

STAGE 5: CONSTRUCTION

Once a contractor is awarded the project, the Michael Baker construction support lead, Mary Flynn, and through Michael Baker PM, Brandon Pitre, will assist the DOTD PM in coordination of receiving and documenting Requests For Information (RFIs) and Shop Drawings from the CE&I Field Engineer. Once RFIs and Shop Drawings are logged, Mary Flynn's construction support team will submit the RFI and/or Shop Drawing to the Michael Baker PM, Brandon Pitre, to be distributed to our design team for review and approval in regard to conformance to the construction plans, 2016 DOTD Standard Specifications, and DOTD Roadway Design Guidelines. Michael Baker will assist in any RFIs if the contractor needs additional clarification of the intent of the construction plans before they are able to proceed. Responses to RFIs and Shop Drawings will be done in a timely manner as to not incur any additional delays for the contractor which can lead to requests for change orders for additional compensation.

WORK ZONE TRAINING REQUIREMENTS (WZTR) | As an ongoing commitment to work zone safety, it is required by DOTD that consultants providing services have personnel that deal with traffic control and flagging be certified as Flaggers, Traffic Control Technicians (TCT), Traffic Control Supervisor (TCS) and/or combination of all three. Michael Baker, Vectura, Gresham Smith and SJB key personnel have received this training. As designers, all three team members have personnel that have been trained in all three WZTR. Certificates can be provided at request from DOTD.

TYPICAL SCHEDULE



Schedule is independent of DOTD Reviews

19. WORKLOAD

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Michael Baker International, LLC	Road Bridge	Contract No. 4400021519 S.P. No. H.012030.5 F.A.P. No. H012030	US 371: KCS RR Overpasses HBI	$257,537
	Road Bridge	Contract No. 4400025026 S.P. No. H.015338 F.A.P. No. H015338	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program – District 07, Supplemental Agreement No. 1	$754,295
	Road Bridge Environmental	Contract No. 4400019379 S.P. No. H.013797 F.A.P. No. H013797	LA 30: EBR PL-I-10	$309,475
	Environmental	Contract No. 4400005484 S.P. No. H.005168 F.A.P. No. DE-9208 (500)	NORG EIS, New Orleans, Louisiana	$403,885
	Environmental	Contract No. 4400005484 S.P. No. H.005168	NORG – Avondale PEL Study, New Orleans, Louisiana Supplemental Agreement	$438.447
	Other (Water Resource)	Contract No. 4400017092 Task Order No. 4	Collection of Existing Watershed Datasets, Models, and Studies; and Proposition of Modeling Design Approach, Schedule and Costs, Region 6	$1,400,002
	Other (Water Resource)	Contract No. 4400023101 Task Order No. 1 S.P. No. H.015040.1& H.015041.1	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes	$10,000
	Other (Water Resource)	Contract No. 4400023101 Task Order No. 2 S.P. No. H.015044.1	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes	$6,500
	Other (Water Resource)	Contract No. 4400023101 Task Order No. 3 S.P. No. H.015047.1	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes	$37,800
	Other (Water Resource)	Contract No. 4400023101 Task Order No. 4 S.P. No. H.015042, H.015043, H.015045, H.015046, & H.015048	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes PEER REVIEW	$9,500

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Michael Baker International, LLC	Other (Aviation)	Contract No. 4400019130 Task Order No. 1	IDIQ Contract for Statewide Aviation Program Update – Phase II Statewide	N/A
	CE&I/OV	Contract No. 4400025536 Task Order No. 1 S.P. No. H.013997 F.A.P. No. H013997	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Loc Rd. over Borrow Pit (Blind RV BT LNCH), St. James Parish	$98,868
	CE&I/OV	Contract No. 4400025536 Task Order No. 2 S.P. No. H.012936 F.A.P. No. H012936	IDIQ Contract for Construction Engineering and Inspection Services in District 61, LA 78: US 190- LA 1	$2,787
	CE&I/OV	Contract No. 4400025536 Task Order No. 3 S.P. No. H.013458 F.A.P. No. H013458	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Manchac Acres & HH Wilson Rd Bridges	$9,911
	CE&I/OV	Contract No. 4400025536 Task Order No. 4 S.P. No. H.015604 F.A.P. No. H015604	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Pear St. at LA 1: Drainage	$162,004
	CE&I/OV	Contract No. 4400025536 Task Order No. 5 S.P. No. H.012057 F.A.P. No. H012057	IDIQ Contract for Construction Engineering and Inspection Services in District 61, LA 431: Villar Canal and Drainage Bridges	$734,079
	CE&I/OV	Contract No. 4400025536 Task Order No. 6 S.P. No. H.013956 F.A.P. No. H013956	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Beamon Rd over Bayou Maringouin	$20,821
	CE&I/OV	Contract No. 4400025536 Task Order No. 7 S.P. No. H.014319 F.A.P. No. H014319	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Ceadercrest Avenue over Wiener Creek	$141,738
	CE&I/OV	Contract No. 4400025536 Task Order No. 8 S.P. No. H.015944 F.A.P. No. H015944	IDIQ Contract for Construction Engineering and Inspection Services in District 61, LA 70 – LA 3213	$534,837
	CE&I/OV	Contract No. 4400025536 Task Order No. 9	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Grosse Tete Emergency Project	$380,720

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
		S.P. No. H.016026 F.A.P. No. H.016026		
Michael Baker International, LLC	CE&I/OV	Contract No. 4400024660 Task Order No. 1 H.013958.6 S.P. No. H.013958.6	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 Carpenter Bridge Rd over Whisky Chitto Creek	$244,374
	CE&I/OV	Contract No. 4400024660 Task Order No. 2 H.014415.6 S.P. No. H.014415.6	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 LA 352 Drainage Improvement	$189,157
	CE&I/OV	Contract No. 4400024660 Task Order No. 3 H.009629.6 S.P. No. H.009629.6	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 US 90 RR-Pinhook_ LA 92-LA 88	$462,165
	CE&I/OV	Contract No. 4400024660 Task Order No. 4 S.P. No. H.005967.6 F.A.P. H.005967	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 Nelson Rd Ext & Bridge	$523,709
	CE&I/OV	Contract No. 4400024660 Task Order No. 5 S.P. No. H.005967.6 F.A.P. H.005967	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 I-10: JEFF DAV PL-I-49(OGFC/SLAB REPAIR)	$492,896
Vectura Consulting Services, LLC	Traffic	Contract No. 4400017293 S.P. No. H.010616	I-20: LA 544 Overpass Replacement	$74,429
	Traffic	Contract No. 4400023075 S.P. No. H.013522	S. Lewis Street Widening	$7,499
	Traffic	Contract No. 4400005484 S.P. No. H.005168.2	New Orleans Rail Gateway Avondale EA	$71,398
	Traffic	S.P. No. H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$11,202
	Traffic	Contract No. 4400021519 S.P. No. H.012030.5	US 371 : KCS RR Overpasses HBI	$572
	Traffic	Contract No. 4400018271 S.P. No. H.014746.5	LA 383 Stage 0 Corridor Study	$20,146
	Traffic	Contract No. 4400025299 S.P. No. H.013421.5	Dist. 02H Flashing Yellow Arrow Part 2	$360,988
	Traffic	Contract No. 4400025299	LA 47 Hayne Blvd Safety Improvements	$57,042

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Vectura Consulting Services, LLC		S.P. No. H.01564.5		
	CE&I/OV	Contract No. 4400020018 S.P. No. H.007160	EBR Computerized Traffic Signal, Ph VB	$66,032
	ITS	Contract No. 4400016364 S.P. No. H.015136.1	Lake Charles Regional ITS Architecture Update	$12,643
	ITS	Contract No. 4400017922 S.P. No. H.012845.1	C/AV Team and Working Group Support	$6,820
	ITS	Contract No. 4400017922 S.P. No. H.014515.5	SEA ATMS and 511 System	$11,652
	ITS	Contract No. 44000020058 S.P. No. H.011507.1	Monroe Phase 3 SEA	$29,217
	ITS	Contract No. 4400016364 S.P. No. H.015136.1	Shreveport-Bossier Regional ITS Architecture Update	$11,260
	ITS	Contract No. 4400016364 S.P. No. H.014511.1	Houma Regional ITS Architecture Update	$10,746
SJB Group, L.L.C.	Survey	Contract No: 4400017597 S.P. No. H.013982 & H.013984 F.A.P. No. H.013982 & H.013984	IDIQ Surveying Services Rural Bridge Replacement Initiative	$38,340
	Survey	Contract No: 4400017711 Task Order 5 S.P. No. H.005121.5 F.A.P. No. H.005121.5	LA 1 – LA 415	$20,078
	CPM	Contract No. 4400017485	IDIQ CPM Analysis	N/A
	CPM	Contract No: 4400017485 S.P. No. H.002375 F.A.P. No. H.002375	LA 16 Amite River Bridge near French Settlement	$7,090
	CPM	Contract No: 4400017485 S.P. No. H.003184.6 F.A.P. No. H.003184.6	I-10 Texas S/L - Coone Guillory	$93,645
	CPM	Contract No: 4400017485 S.P. No. H.001234.6 F.A.P. No. H.001234.6	LA 1: Port Allen Canal BR Replacement (PH1) (HBI)	$31,385
	CPM	Contract No: 4400017485 S.P. No. H.002980.6 F.A.P. No. H.002980.6	I-10 Overpass Over US 165 & Missouri Pacific Railroad – Calcasieu and Jefferson Davis Parish	$28,256
	CPM	Contract No: 4400017485	US 190: LA 437 - US 190 Bus – St. Tammany Parish	$19,779

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
		S.P. No. H.001344.6 F.A.P. No. H.001820.6		
SJB Group, L.L.C.	CPM	Contract No: 4400017485 S.P. No. H.002424 F.A.P. No. H.002424	LA 70 Sunshine Bridge - LA 22 - District 61, Ascension/St. James Parish	$28,109
	CPM	Contract No: 4400017485 S.P. No. H.003047.6 F.A.P. No. H.003047.6	Pecue Lane/I-10 Interchange Phase III - District 61, East Baton Rouge Parish	$31,807
	CPM	Contract No: 44-17485 S.P. No. H.011137 F.A.P. No. H.011137	I-12 (LA1077)	$54,587
	CPM	Contract No: 4400017485 S.P. No. H.012174.6 F.A.P. No. H.012174.6	I-10 Jeff Davis	$35,731
	CPM	Contract No: 4400017485 S.P. No. H.013203.6 F.A.P. No. H.013203.6	US90: LA 318 – LA 83	$36,514
	CPM	Contract No: 44-10586 S.P. No. H.010652 F.A.P. No. H.010652	LA 73 (US 61 Airline)	$56,922
	CPM	Contract No: 44-19184 S.P. No. H.001820.6 F.A.P. No. H.001820.6	LA 485: Bridges Near Allen Construction Inspection – Allen Parish15,125	$15,125
	CPM	Contract No: 4400014659	IDIQ Contract - SUE Services	N/A
	Other (SUE)	Contract No: 4400017485 S.P. No. H.001820.6 F.A.P. No. H.001820.6	LA 485 Bridges Near Allen CI	$73,492
	Other (SUE)	Contract No: 4400017485 S.P. No. H.001820 F.A.P. No. H.001820	LA485: Bridges Near Allen Water	$15,505
	Other (SUE)	Contract No: 4400019379 S.P. No. H.013797	EBR PL – I-10 – Part I	$600
	Right-of-Way	Contract No: 4400028371 S.P. No. H.004100.5 | Directive 1	I-10 LA 415 Acadian	$20,078
	Right-of-Way	Contract No: 4400028371 S.P. No. H.004100.5| Directive 2	I-10 LA 415 Dir 2	$1,536

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Gresham Smith	CE&I/OV	Contract No. 4400024424 S.P. No. H.013256.6	I-10 Scott to Lake Charles ITS CEI	$6
	Other (Program Management)	Contract No. 4400027186 S.P. No. H.015959.1	Discretionary Grant Administration	$1,552,944
	Road	Contract No. 4400019871 S.P. No. H.013714.5	LRSP/STRPPP Valhi Boulevard Shared Use Path Signing and Striping	$19,352
	Road	Contract No. 4400019871 S.P. No. H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	$9,344
	Road	Contract No. 4400027181 S.P. No. H.016012	Transportation Alternative Program TO #1	$45,861
	Road	Contract No. 4400026912 S.P. No. H.014640	LRSP TO #1 St. Mary Parish	$45,333
	Traffic	Contract No. 4400019871 S.P. No. H.015086.5	LRSP/STRPPP LA 14	$6,650
	Traffic	S.P. No. H.015201	LRSP/STRPPP Richwood Traffic Study	$136,020
	Traffic	S.P. No. H.013388.5	LaFourche Flashing Yellow Arrow Traffic Signal Upgrade	$368,730
	Traffic	S.P. No. H.014629.5	LaFourche Design	$112,000

20. CERTIFICATIONS/LICENSES

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Brandon Pitre, PE, PTOE, RSP1	**Michael Baker International, Inc.**	107
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Rebecca Murray, PE, PTOE, RSP1		110
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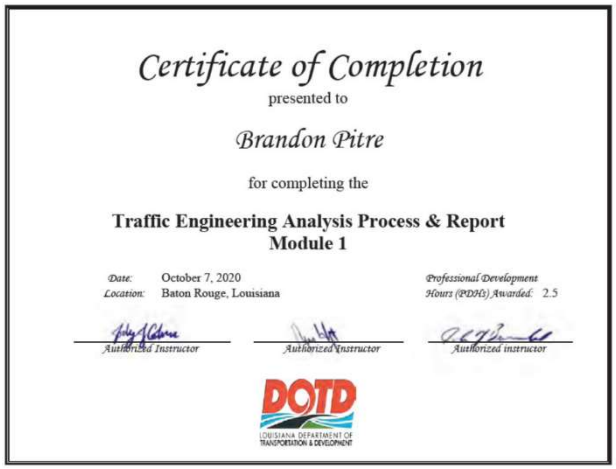
Brandon Pitre — Michael Baker International, LLC



Certificate of Completion

presented to

Brandon Pitre

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 7, 2020
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD — Louisiana Department of Transportation & Development

Certificate of Completion

presented to

Brandon Pitre

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 7, 2020
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD — Louisiana Department of Transportation & Development

Certificate of Completion

presented to

Brandon Pitre

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 8, 2020
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD — Louisiana Department of Transportation & Development

Brooks Miller — Michael Baker International, LLC

Certificate of Completion

presented to

Brooks Miller

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: March 10, 2021
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD — Louisiana Department of Transportation & Development

Certificate of Completion

presented to

Brooks Miller

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: March 10, 2021
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD — Louisiana Department of Transportation & Development

Certificate of Completion

presented to

Brooks Miller

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 11, 2021
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD — Louisiana Department of Transportation & Development

Brin Ferlito — Vectura Consulting Services, LLC

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: June 4, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: June 11, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: September 10, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Laurence Lambert — Vectura Consulting Services, LLC

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July 25, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 15, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Reece Rodrique — Vectura Consulting Services, LLC

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: November 5, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: November 26, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Reece Rodrigue

for completing the

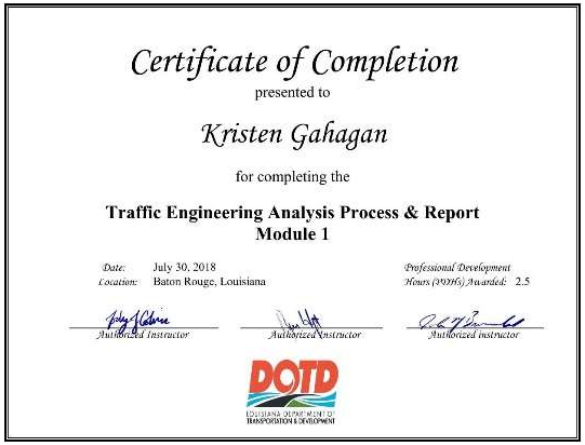
Traffic Engineering Analysis Process & Report
Module 3

Date: December 3, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Kristen Farrington — Vectura Consulting Services, LLC



Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Herbert "Bert" Moore — Gresham Smith

Certificate of Completion
presented to
Bert Moore
for completing the
Traffic Engineering Analysis Process & Report
Module 1
Date: June 4, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 4
Authorized Instructor
Authorized Instructor
Authorized Instructor
DOTD

Certificate of Completion
presented to
Bert Moore
for completing the
Traffic Engineering Analysis Process & Report
Module 2
Date: June 11, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 4
Authorized Instructor
Authorized Instructor
Authorized Instructor
DOTD

Certificate of Completion
presented to
Bert Moore
for completing the
Traffic Engineering Analysis Process & Report
Module 3
Date: October 18, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized Instructor
DOTD

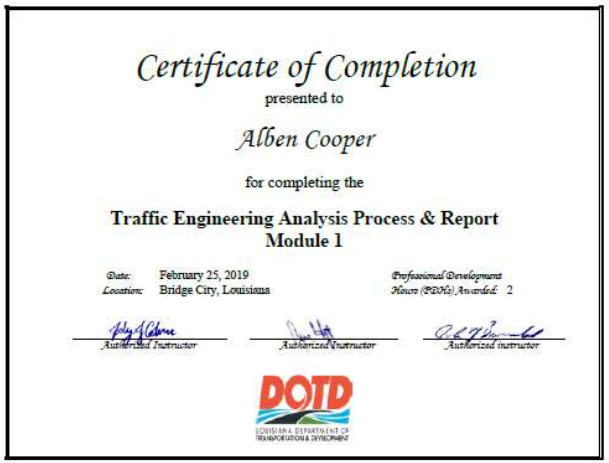
Rebecca Murray — Gresham Smith

Certificate of Completion
presented to
Rebecca LaPorte
for completing the
Traffic Engineering Analysis Process & Report
Module 1
Date: July 16, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2
Authorized Instructor
Authorized Instructor
Authorized Instructor
DOTD

Certificate of Completion
presented to
Rebecca LaPorte
for completing the
Traffic Engineering Analysis Process & Report
Module 2
Date: July 23, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized Instructor
DOTD

Certificate of Completion
presented to
Rebecca LaPorte Murray
for completing the
Traffic Engineering Analysis Process & Report
Module 3
Date: October 15, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized Instructor
DOTD

Alben Cooper — Gresham Smith



Certificate of Completion

presented to

Alben Cooper

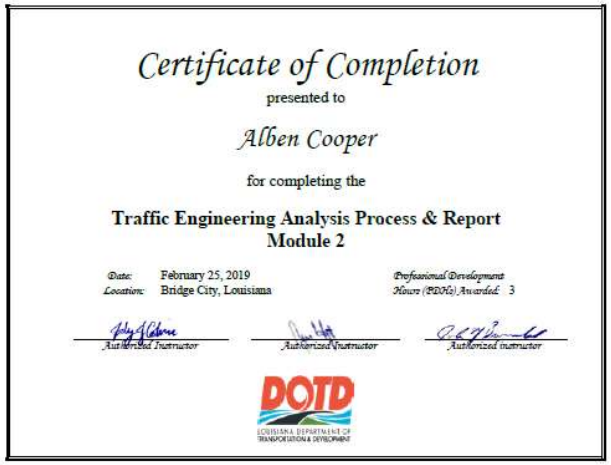
for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: February 25, 2019
Location: Bridge City, Louisiana
Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Alben Cooper

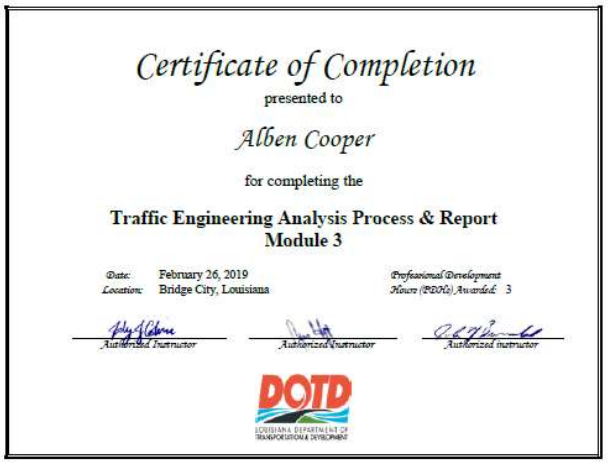
for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: February 25, 2019
Location: Bridge City, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Alben Cooper

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: February 26, 2019
Location: Bridge City, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Louisiana Business Filing Record — Michael Baker International, Inc.

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Name	Type	City	Status
MICHAEL BAKER INTERNATIONAL, INC.	Business Corporation (Non-Louisiana)	PITTSBURGH	Active

21. QA/QC PLAN AND/OR WORK PLAN – N/A

22. SUBCONSULTANT INFORMATION

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Vectura Consulting Services, LLC	8000 Innovation Park Drive, Baton Rouge, LA 70820	Brin Ferlito, bferlito@vecturacs.com	225-223-6685
SJB Group, L.L.C.	8377 Picardy Avenue Baton Rouge, LA 70809	Matthew Estopinal Matt.Estopinal@SJBGroup.com	225-706-5752
Gresham Smith	10000 Perkins Rowe, Suite 280 Baton Rouge, LA 70810	Herbert "Bert" Moore II bert.moore@greshamsmith.com	225-757-5849

Louisiana Business Filing Record Vectura Consulting Services, LLC

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Name	Type	City	Status
VECTURA CONSULTING SERVICES, LLC	Limited Liability Company	BATON ROUGE	Active

Louisiana Business Filing Record SJB Group, L.L.C.

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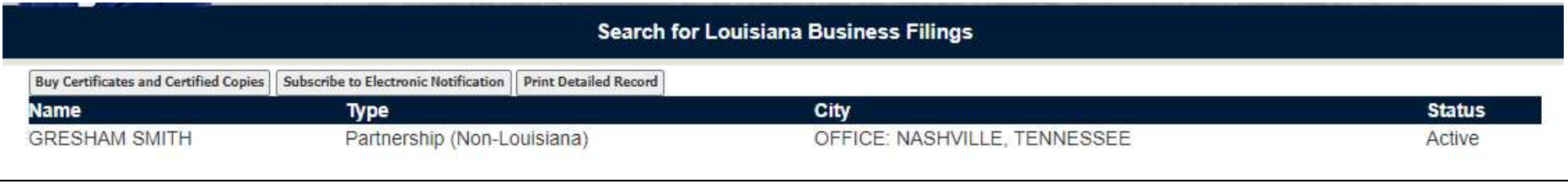
Name	Type	City	Status
SJB GROUP, L.L.C.	Limited Liability Company	BATON ROUGE	Active

Louisiana Business Filing Record Gresham Smith



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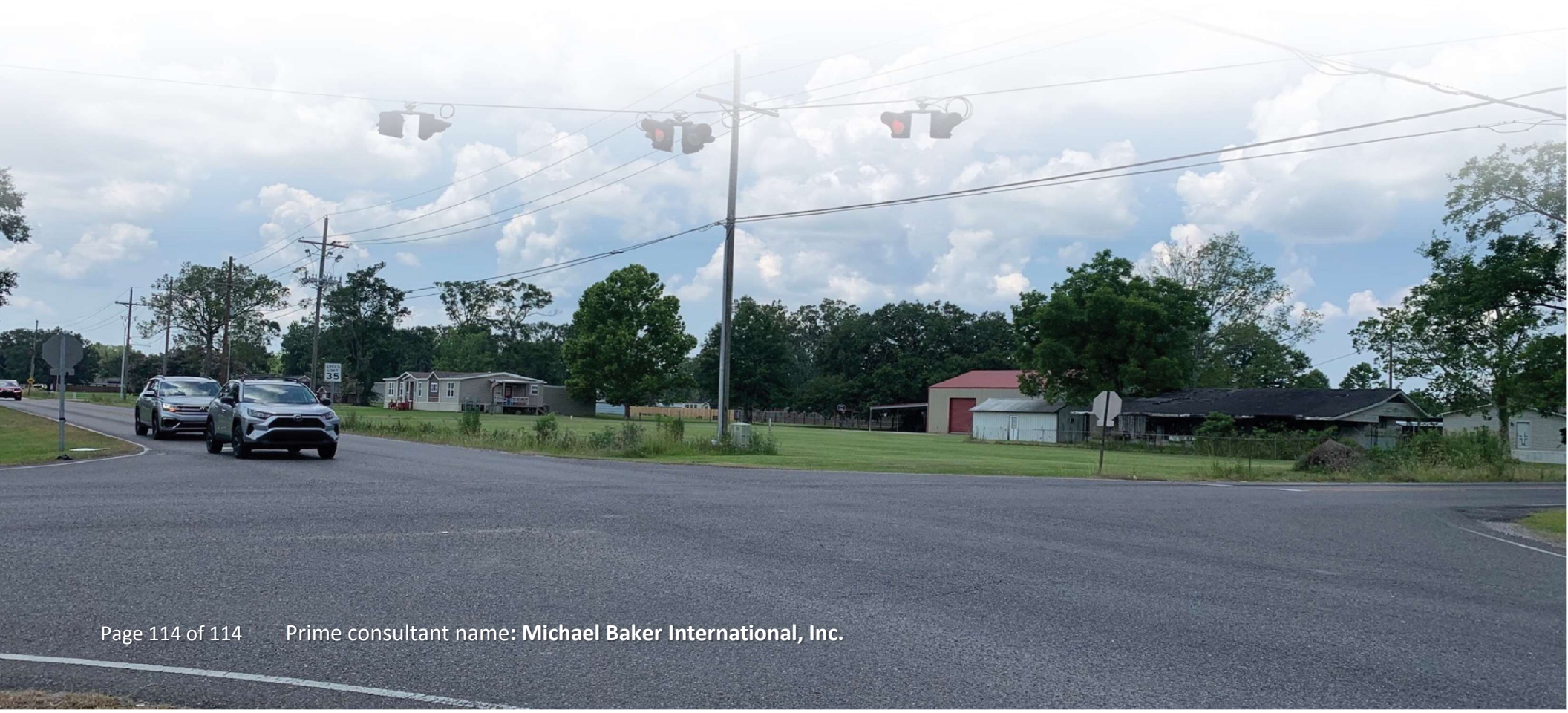
Name	Type	City	Status
GRESHAM SMITH	Partnership (Non-Louisiana)	OFFICE: NASHVILLE, TENNESSEE	Active

23. LOCATION – N/A



 Prime consultant name**: Michael Baker International, Inc.**