GEC

Statement of Qualifications

CONTRACT NO. 4400026027
STATE PROJECT NO. H.003771.2

I-10 AT LA 74
ROUTES: I-10 AND LA 74
ASCENSION PARISH

Submitted: June 8, 2023

I- 10/LA 74 Alternative #2 TUDI with signal rendering to be analyzed (developed by GEC Team member)

DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1.	Contract Name as shown in the advertisement	**I-10 AT LA 74 ROUTES: I-10 AND LA 74 ASCENSION PARISH**
2.	Contract Number(s) as shown in the advertisement	4400026027
3.	State Project Number(s), if shown in the advertisement	H.003771.2
4.	Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	**G.E.C., Inc.**
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0001917
6.	Prime consultant mailing address	8282 Goodwood Blvd., Baton Rouge, LA 70806
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8282 Goodwood Blvd., Baton Rouge, LA 70806
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Bliss Bernard, PE, Vice President, (225) 612-4103, bbernard@gecinc.com
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Laura Carnes, Senior Vice President, (225) 612-4287, lcarnes@gecinc.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.	 Signature above shall be the same person listed in Section 9: June 8, 2023 Date:

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

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)' %
	Gulf South Research Corporation	**2%**
	Marmillion/Gray Media, Inc.	**2%**
	The Lakvold Group, LLC	**3%**

Sections 12-13

CURRENT CONDITION, I 10 AT LA 74

WHAT THEY'RE SAYING

Past LADOTD Environmental Project Managers have stated the following about GEC's proposed Project Manager:

"Bliss was continuously proactive in handling all issues that were uncovered throughout the process. Bliss was pre-emptive in identifying solutions. Deliverables were always on time pending DOTD or FHWA reviews. Communication with DOTD was above and beyond on a regular basis, relevant, and informative. Extremely cooperative with DOTD; adapts to changes in project issues through innovation; cooperates with all parties and creatively works within scope of services to resolve issues. Consultant was key in resolving sub-consultant issues throughout the NEPA process.

GEC

12. Past Performance Evaluation Discipline Table

Past Performance Evaluation Discipline	% of Overall Contract	G.E.C., Inc. (GEC) **(Prime)**	Arcadis	DBE FIRM Gulf South Research Corporation (GSRC)	DBE FIRM Marmillion/ Gray Media, Inc.	DBE FIRM The Lakvold Group, LLC	Each Discipline must total to 100%
Environmental	40.00%	85.00%	10.00%	5.00%			100%
Traffic	22.00%	10.00%	90.00%				100%
Road	15.00%	85.00%	15.00%				100%
Bridge	10.00%	85.00%	15.00%				100%
Planning	10.00%	80.00%			20.00%		100%
Appraiser	3.00%					100.00%	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%	65.450%	27.550%	2.000%	2.000%	3.000%	100%

13. Firm Size

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
G.E.C., Inc.	Supervisor - Eng	5	7
	Environmental Manager	2	2
	Principal	3	3
	Engineer	4	7
	Clerical	1	2
	Supervisor - Other	1	2
	Environmental Pro	2	3
	Biologist / Wetlands	2	4
	Senior Technician	1	2
	Economist	1	2
ARCADIS	CADD Technician	1	2
	Engineer	7	11
	Environmental Manager	1	2
	Environmental Professional	1	4
	GIS Analyst	1	4
	Principal	1	4
	Professional	1	3
	Supervisor-Engineer	3	8
Gulf South Research Corporation	Supervisor – Other	1	8
	Principal – Arch	1	3
	Archaeologist	2	8
	Archaeologist – Tech	1	4
	Historian	1	1
	GIS Analyst	1	2
	Clerical	1	2
The Lakvold Group, LLC	Real Estate Appraisal	1	1
Marmillion/Gray Media, Inc.	Principal	1	2
	Graphics	1	2
	Administrative	1	1

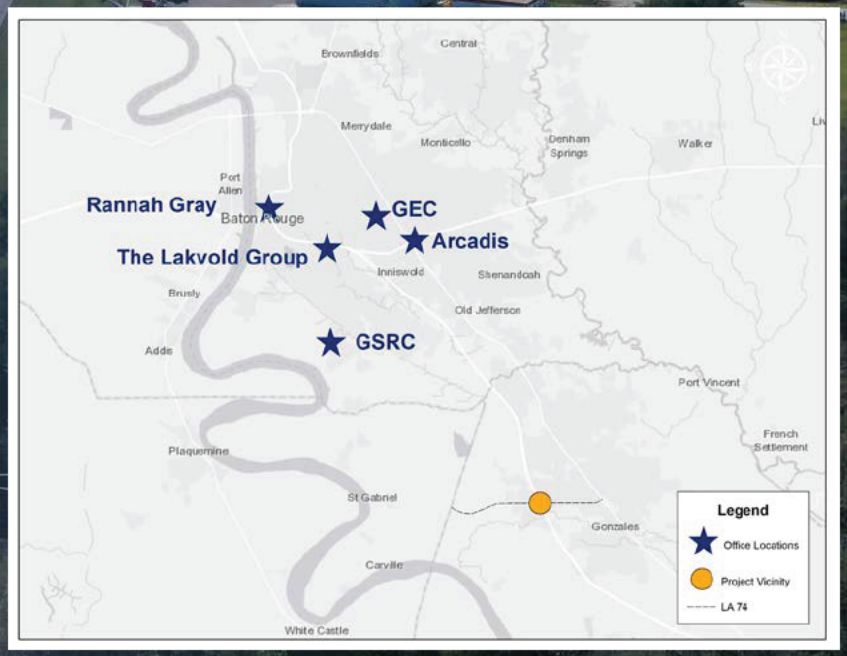
Sections 14-15

CURRENT CONDITION, I 10 AT LA 74

Our team is strategically located within the project vicinity, which allows us to be responsive and truly connected to the project.

It is vital to the success of the project that early and ongoing public and stakeholder coordination occurs, and having all team members located within a 15-mile radius allows the GEC Team to be readily available and on site within short notice.

Established relationships and familiarity with the project area will aid in obtaining data quickly and willingness to share, reducing the time spent on early data collection.



14. Organizational Chart

PRINCIPAL-IN-CHARGE
(MPR 1, 3) • Jeff Robinson, PE — GEC

PROJECT MANAGER
(MPR 1, 2, 3) •• Bliss Bernard, PE — GEC

DEPUTY PROJECT MANAGER
(MPR 1, 2) •• Laura Carnes — GEC

QA/QC & SUBJECT MATTER EXPERTS
(MPR 11) Cary Bourgeois, PE — GEC
Sherri LeBas, PE — GEC
Bijan Sharafkhani, PE — GEC

TECHNICAL LEAD, TRAFFIC
(MPR 12) • Skyler Waaso, PE, PTOE* — Arcadis

Traffic Engineering Services

Traffic & Safety Study

(MPR 12) • Ari Deitch, PE, PTOE, PTP*	Arcadis
(MPR 12) • Kester Hollier, PE, PTOE*	Arcadis
• Max Aguirre, PhD, PE, RSP*	Arcadis
• Jose M Rodriguez, RSP*	Arcadis
• Thomas Montz, PE*	Arcadis
• Thomas Swanson, PE, PTOE*	GEC
QA/QC	
•• Akhil Chauhan, PE, PTOE*	Arcadis

TECHNICAL LEAD, LINE & GRADE
(MPR 11) Jerome Lohmann, PE — GEC

Line & Grade

Line & Grade Study

• Christopher Nipper, PE	GEC
• Logan Michel, PE	GEC
(MPR 1,2,3) •• Bliss Bernard, PE	GEC
Keith Rebello, PhD, PE	GEC
Varaprasad Venkata, PE	GEC
Jose L Rodriguez, PE	Arcadis
David Fulks, PE	Arcadis
Garret Keller, PE	Arcadis
Gabriel Arias, PE	Arcadis
Constructability Review	
Brian Buckel, PE	GEC

TECHNICAL LEAD, ENVIRONMENTAL
(MPR 1, 3) • Jeff Robinson, PE GEC

Environmental Evaluation

Environmental

NEPA Planning/Environmental Assessment
(MPR 1,2,3) •• Bliss Bernard, PE GEC
(MPR 1, 2) •• Laura Carnes GEC
• Nicole Forsyth, EI GEC
Chelsea Crawford GEC
•• Jan Hughes Arcadis
•• Jason Morrell, PWS Arcadis

Environmental Justice / Socioeconomics
(MPR 1, 2) •• Laura Carnes GEC
Shelton Perry GEC
Kevin Horn GEC

Wetlands / Biological Resources
(MPR 6, 7) Barry McCoy GEC
Jason Avant GEC
(MPR 5) Will Grant GEC

Conceptual Stage Relocation Plan/ Right-of-Way
(MPR 10) Angela Lakvold, MAI, SRA, R/W-AC LG

Phase I ESAs/Superfund Sites
(MPR 5) Will Grant GEC
(MPR 1, 3) • Jeff Robinson, PE GEC
(MPR 1, 2) •• Laura Carnes GEC
• Nicole Forsyth, EI GEC

Air Quality/Noise Modeling
(MPR 4) Luis Velasquez, PE Arcadis
(MPR 4) • Justin Maderia, PE, PTOE Arcadis
• Nicole Forsyth, EI GEC

Cultural Resources
(MPR 8) • John Lindemuth GSRC
• Bretton Somers GSRC
• Elizabeth Hunt GSRC
• Suna Adam GSRC
(MPR 9) Alexis Thomas GSRC

Public/Stakeholder Outreach
Rannah Gray MGM
Sarah Powell MGM
Ashley Powell MGM
(MPR 1,2,3) •• Bliss Bernard, PE GEC
(MPR 1, 2) •• Laura Carnes GEC
• Nicole Forsyth, EI GEC
Carlos Perez GEC

Threatened / Endangered Species
(MPR 6, 7) Barry McCoy GEC
(MPR 7) Robert Hamilton, Jr. GEC

GIS / CADD
Carlos Perez GEC
Christy Guempel GSRC
Joshua Chatelain Arcadis
Sothon Men Arcadis

LEGEND

GEC	**G.E.C., Inc.**
Arcadis	**Arcadis U.S.**
MGM	**Marmillion/Gray Media, Inc.**
GSRC	**Gulf South Research Corporation**
LG	**The Lakvold Group, LLC**

(#) Fulfills MPR
* personnel performing traffic engineering analysis and/or QC of traffic engineering analysis
• LTRC Modules 1-3 Training (TEPR)
• Section 106 Course
• NHI Course No. 142005, NEPA and Transportation Decision Making

15. Minimum Personnel Requirements

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR / certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Laura Carnes	GEC	-	-	-
	Jeff Robinson, PE		PE No. 29322 (Civil)	LA	03-31-2025
	Bliss Bernard, PE		PE No. 42709 (Civil)	LA	09-30-2024
2	Laura Carnes	GEC	-	-	-
	Bliss Bernard, PE		PE No. 42709 (Civil)	LA	09-30-2024
3	Jeff Robinson, PE	GEC	PE No. 29322 (Civil)	LA	03-31-2025
	Bliss Bernard, PE		PE No. 42709 (Civil)	LA	09-30-2024
4	Justin Maderia, PE, PTOE, PTP	ARCADIS	PE No. 38492 (Civil)	LA	03-31-2024
	Luis Velasquez, PE		PE No. 86996 (Civil)	PA	09/2019
5	Will Grant	GEC	-	-	-
6	Barry McCoy	GEC	Degree in Wildlife Conservation	N/A	N/A
7	Robert Hamilton, Jr.	GEC	Degree in Biology	N/A	N/A
	Barry McCoy		Degree in Wildlife Conservation	N/A	N/A
8	John Lindemuth	GSRC	Section 106 Course	N/A	N/A
9	Alexis Thomas	GSRC	B.A. Art History; M.P.S. Preservation Studies; M.S. Urban Studies	N/A	N/A
10	Angela Lemoine-Lakvold	THE LAKVOLD GROUP	Appraisal - General	LA	12-31-2023
11	Jerome Lohmann, PE	GEC	PE No. 24673 (Civil)	LA	09-30-2024
	Cary Bourgeois, PE		PE No. 23414 (Civil)	LA	09-30-2023
12	Skyler Waaso, PE, PTOE	ARCADIS	PE No. 39070 (Civil) PTOE No. 4600	LA USA	09-30-2024 03/2025
	Ari Deitch, PE, PTOE, PTP, RSP		PE No. 41842 (Civil) PTOE No. 4346	LA USA	03-31-2024 11/2023
	Kester Hollier, PE, PTOE		PE No. 34304 (Civil) PTOE No. 3928	LA USA	03-31-2025 11/2024

Section 16

WHAT THEY'RE SAYING

LADOTD Environmental Project Manager stated the following regarding GEC's performance as a prime consultant for H.004987 US 190 Collins Blvd Environmental Assessment:

Overall NEPA Document and Project Management

NEPA document quality was very good and approved by FHWA without substantive comments or additions. Jeff Robinson and his group at GEC worked through numerous project changes and timeline starts and stops with a "can-do" attitude. Jeff handled and coordinated issues that arose, including changes in right-of-way requirements and additional landowner outreach. Excellent coordination with DOTD Environmental.

Wetlands, T&E, and Biological Assessment

Barry McCoy of GEC has exceptional knowledge of procedures for field surveys and needs little to no guidance from DOTD. Submittals required no major edits prior to submittal to regulatory agencies.

Public Outreach

The Public Meetings and Public Hearing held were very well attended. GEC used an innovative technique to reduce the noise overlap of the presentation and discussions at the exhibits. By providing multiple computer terminals with headphones, meeting attendees could watch and hear the PowerPoint presentation then move to the exhibit station for Q&A with the project team. An excellent solution for meetings in small rooms or rooms with no dividers.

CURRENT CONDITION, I 10 AT LA 74

16. Staff Experience

PERSONNEL RESUMES
Project Leadership

Firm employed by	G.E.C., Inc.		
Name	Bliss Bernard, PE	Years of relevant experience with this employer	1
Title	Vice President Environmental / Business Development	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	B.S. / 2014 / Civil Engineering		
Active registration number / state / expiration date	42709 / Louisiana / 03-31-2025		
Year registered	2018	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: **Project Manager, Environmental, Line & Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mrs. Bernard is a licensed Professional Engineer having over 9 years of experience in project management, engineering, environmental, water resources, transportation, public outreach, and planning. She has extensive knowledge,* ***having 9 years of experience*** *with* ***National Environmental Policy Act (NEPA) regulations****, and she has* ***served as the Project Manager on numerous Environmental Assessments and Environmental Impact Statements*** *for a variety of federal and state agencies, such as LADOTD, FHWA, USDA, NRCS, USACE, NPS, NRDA, LATIG, and CPRA. Her successful experience with various agencies and multi-disciplinary environmental studies brings a unique expertise, broader knowledge, and the ability to manage a range of NEPA Projects. She has completed the ATSSA Traffic Control Technician, Traffic Control Supervisor, and Certified Flagger training courses,* ***NHI Course 142005 NEPA & the Transportation Decision-Making Process****, the LADOTD Highway Safety Manual Course, and the* ***LADOTD TEPR Training Class Modules 1, 2, and 3.***
05/17-05/20	**H.001271 CANE RIVER BRIDGE CHURCH STREET ENVIRONMENTAL ASSESSMENT: Natchitoches Parish, LA.** *Project Manager* - Mrs. Bernard served as the Prime consultant's **Project Manager for the Environmental Assessment** of the Cane River Bridge in Natchitoches, LA. She provided the planning, public outreach, and engineering and environmental services necessary to gauge public support and document information necessary for LADOTD and FHWA to reach an environmental decision as required by NEPA. She analyzed project impacts by coordinating and developing various technical studies, including: line and grade study, GIS mapping, wetland delineation and threatened and endangered species study, phase 1 environmental site assessment, air and noise impact studies, and cultural resources surveys. She prepared numerous reports and presentations and directed all activities for numerous stakeholder meetings, solicitation of views, public meetings, and public hearings. Through the compilation of all studies required by NEPA and public and agency involvement, **Mrs. Bernard developed the Final EA, the FONSI and the first known LADOTD and FHWA "net benefit determination" for Section 4(f) properties in the State of Louisiana. FHWA indicated the FONSI document Mrs. Bernard developed will be used as a template for future FONSIs developed in partnership with LADOTD.** The Cane River Project received a LADOTD Environmental rating score of 4.8/5.0. Some of the comments as a part of the rating included, "Bliss was continuously proactive in handling all issues that were uncovered throughout the process. Bliss was pre-emptive in identifying solutions. Deliverables were always on time pending DOTD or FHWA reviews. Communication with DOTD was above and beyond on a regular basis, relevant, and informative. Extremely cooperative with DOTD; adapts to changes in project issues through innovation; cooperates with all parties and creatively works within scope of services to resolve issues. Consultant was key in resolving sub-consultant issues throughout the NEPA process."
05/17-03/22	**H.009932 US 80 WIDENING: VANCIL ROAD TO WELL ROAD ENVIRONMENTAL ASSESSMENT: Ouachita Parish, LA.** *Project Manager* - Mrs. Bernard served as the **Prime Consultant's Project Manager for the Environmental Assessment** of the US 80 Widening Project. **She led all efforts, assisting LADOTD and FHWA to formulate the EA in accordance with NEPA**. She analyzed project impacts by coordinating and assisting in developing various technical studies, including the line and grade study, prepared numerous reports, presentations, mailers, and other documents for stakeholder and community outreach, directed all activities for numerous stakeholder meetings, SOVs, public meetings, and hearings. Ms. Bernard hosted one of the first LADOTD virtual public meetings following the COVID-19 pandemic. Being one of the first public meetings held completely online, many of the standard procedures for the meeting had to be adapted for a social-distance-friendly platform. Through the compilation of all studies required by NEPA and public and agency involvement, Mrs. Bernard developed the Draft Environmental Assessment Report.
01/20-11/21	**H.002297 LA 37 (SULLIVAN ROAD TO LIBERTY ROAD): East Baton Rouge Parish, LA.** *Project Manager* - Mrs. Bernard served as the Project Manager and was the engineer of record for the LA 37 Stage 0 project. She was responsible for managing and providing all engineering, environmental, and

Firm employed by	G.E.C., Inc.
Name	**Bliss Bernard, PE** *continued resume*
	planning services required to determine necessary improvements along the LA 37 (Greenwell Springs Road) corridor from Sullivan Road to Liberty Road in East Baton Rouge Parish. Mrs. Bernard served as the prime consultant for this Stage 0 feasibility study and environmental inventory. Mrs. Bernard was responsible for performing project research, establishing design criteria in accordance with LADOTD, overseeing concept development and evaluation for roadway alternatives, based upon a traffic study and was the **engineer of record in preparing the Stage 0 Feasibility Study, NEPA Documents, and Environmental Inventory to examine the feasibility of improving mobility and operations of the corridor**. She developed the final signed and sealed Stage 0 Feasibility Report including the Stage 0 Checklist, Environmental Checklist, roadway engineering plans, and the opinion of probable cost.
06/14-08/15	**H.000758.2 WIDENING OF US 84 FROM HWY 772 TO JUST EAST OF HAIR CREEK BRIDGE EA: Lasalle Parish, LA.** *Project Manager* - Mrs. Bernard was responsible for various tasks, such as: public outreach, environmental documentation, and technical studies as required by the NEPA on this **Environmental Assessment** for the proposed widening of US 84 on behalf of LADOTD and FHWA.
06/14-05/16	**H.004985 I-12 TO BUSH ENVIRONMENTAL IMPACT STATEMENT: St Tammany Parish, LA.** *Project Manager* - Mrs. Bernard was responsible for various tasks such as public outreach, environmental documentation, line and grade report, section 4(f), technical studies, and developing the **draft and final EIS as required by NEPA in coordination with LADOTD, FHWA, and USACE.** Mrs. Bernard led the sub-consultant team to complete a 3rd party EIS for a proposed 4-lane highway from Bush, Louisiana to I-12.
06/22-01/23	**THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION PROJECT: Plaquemines Parish, LA.** *Project Manager* - Mrs. Bernard served as a Project Manager on the project management team for the Mid-Barataria Sediment Diversion (MBSD) project. She has assisted in the development of the cumulative impacts, water quality, and overall QC of the **Environmental Impact Statement**. The EIS was prepared under the direction of USACE to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the CWA, Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. The EIS is assessing the potential negative and beneficial impacts associated with the construction and operations of the project. This highly publicized and controversial project includes 7 cooperating and 10 commenting agencies, and 11 consulting tribes and was placed on the permitting dashboard under the FAST-41 process, receiving authorization in December 2022.
11/22-Present	**PORT OF NEW ORLEANS LOUISIANA INTERNATIONAL TERMINAL ENVIRONMENTAL ASSESSMENT: Violet, LA.** *Deputy Project Manager* - GEC is serving as the prime consultant in developing the **Environmental Assessment** for the new LIT Port in Violet, LA on behalf of the Port of New Orleans. GEC is responsible for the overall development of the EA to secure necessary permits and permissions to construct the proposed LIT in St. Bernard Parish. Mrs. Bernard is serving on the Project Management Team and is directly responsible for the oversight of the hydraulics/hydrology, transportation, and coastal resource sections of the report. She has assisted in the development of the data gap analysis and affected conditions and will be responsible for analyzing environmental impacts and authoring the respective sections.
02/18-12/21	**H.006459 / RODDY ROAD/CHURCHPOINT ROAD ROUNDABOUT: Ascension Parish, LA.** *Project Manager* - Mrs. Bernard served as the Project Manager on this project re-design. Due to funding restrictions, the project was not constructed in a timely manner, and the original submittals were updated to new standards. Mrs. Bernard developed the intersection study, **NEPA documents**, environmental categorical exclusion report, and hosted the public meeting. She assisted in updating all other prior plan documents in accordance with new LADOTD standards including geotechnical and pavement design, engineering and drainage plans, **cost estimates**, ROW maps, and bid and construction documents.
06/19-09/20	**STAGE 0 FEASIBILITY STUDY ROUNDABOUTS: Lafayette Parish, LA.** *Project Manager* - The project entailed developing Stage 0 Feasibility Studies for 30 roundabout locations throughout Lafayette Parish. Mrs. Bernard served as an engineer, and was responsible for data collection, feasibility, environmental inventory, **NEPA documents**, categorical exclusions, and conceptual design of numerous roundabouts. She developed environmental inventory reports in accordance with LADOTD **and FHWA**, and managed the sub-consultants, ensuring quality control.
01/16-04/17	**H.011014 LA 3002 U-TURN: Livingston Parish, LA.** *Project Manager* - Mrs. Bernard served as the Project Manager and assisted with the preliminary and final plans for the LA 3002 U-Turn. She was responsible for developing the **NEPA Documents, environmental categorical exclusion**, preliminary and final plans, which included the design of a new roadway, widening existing roadways, intersection improvements, signage and striping, and subsurface drainage.

Firm employed by	G.E.C., Inc.		
Name	Laura Carnes	Years of relevant experience with this employer	13
Title	Senior Vice President, Coastal, Environmental & Water Resources	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization	B.S. / 1993 / Psychology; M.S. / 2002 / Geography		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Deputy Project Manager**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Ms. Carnes is an Environmental Professional with more than 16 years of experience preparing Phase I Environmental Site Assessments (ESAs), Environmental Impact Statements (EISs), and Environmental Assessments (EAs) for private and governmental clients including the Baton Rouge Area Chamber of Commerce (BRAC), Baton Rouge Parks and Recreation (BREC), CPRA, HUD, USACE, FERC, FEMA, US Forest Service, and FHWA-DOTD. Ms. Carnes' has completed the training course "ASTM International Environmental Site Assessments for Commercial Real Estate" and is also trained in HAZWOPER in accordance with 29 CFR 1910.120. She has performed numerous assessments to evaluate the presence of hazardous substances and petroleum products in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Her experience also includes preparing EAs and EISs in compliance with the National Environmental Policy Act (NEPA). Through the NEPA process, she has ensured project compliance with applicable laws, regulations, and executive orders for more than 30 projects, particularly as related to ESA, E.O. 12898, Section 106 of the NHPA, E.O. 11990, and USACE Section 10/404/and 408 permitting.* ***She has completed the NHI Course NEPA & the Transportation Decision-Making Process and the Section 106 Course & Practical Conflict Management in Environmental Issues (NHI Course #142060).***
01/14-05/17 **SECTION 17 PROJECT**	**H.004987 U.S. HIGHWAY 190/COLLINS BOULEVARD WIDENING (US-190B – LA 25) ENVIRONMENTAL ASSESSMENT: Covington, LA.** *NEPA Specialist* - Ms. Carnes prepared the Environmental Assessment (with FONSI) and Line, and Grade Study to widen approximately 3 miles of U.S. 190 in Covington, a project that included the construction of new bridges across the Bogue Falaya River. Notably, the project proposed the elimination of all signalized intersections within the project corridor and replacement with roundabouts. Ms. Carnes led the development of the EA, technical reports, and Solicitation of Views coordination with resource agencies to assess project impacts on wetlands, socioeconomics, navigation, floodplains, and other aspects of the environment.
01/14-05/16 **SECTION 17 PROJECT**	**H.004983 U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA.** *NEPA Specialist*- Ms. Carnes prepared an EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA NEPA requirements for the widening of US Highway 11 in Slidell, LA. Her tasks included preparation of the Environmental Assessment (with FONSI) and line and grade report, interagency coordination and analyses of project impacts on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and endangered or threatened species and their habitat. Required environmental studies included, among other tasks, wetlands, threatened and endangered species, floodplains, and a Phase I ESA.
01/11-06/14	**US 190 COLLINS BLVD. RIGHT TURN LANE AT LEE ROAD: Covington, LA.** *NEPA Specialist* - GEC designed the extension of the existing U.S. Hwy. 190 (Collins Blvd.) northbound right turn lane to the LA Hwy. 437 (Lee Road) intersection, from 200-ft. to approximately 2,300-ft. Ms. Carnes played a lead role in achieving NEPA compliance for the project in accordance with CEQ, FHWA, and LADOTD regulations. Ms. Carnes implemented Solicitation of Views coordination with agencies, assessed environmental and socioeconomic impacts for the EA, developed the report, facilitated public meetings, and responded to public comments.
02/14-12/15	**U.S. 190 BRIDGE OVER HIGHWAY 21 AND BOGUE FALAYA RIVER, ENVIRONMENTAL ASSESSMENT: St. Tammany Parish, LA**. *NEPA Specialist* - Ms. Carnes prepared the Environmental Assessment for this project aimed to improve traffic flow efficiency through the primary north-south roadway corridor in Covington, LA. Her tasks included development of the NEPA document, interagency coordination and analyses of project impacts

Firm employed by	G.E.C., Inc.
Name	**Laura Carnes** *continued resume*
	on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and endangered or threatened species and their habitat. The estimated $45 million, 2.5-mile long project replaces (or supplements) the existing two-land bridge and road with a divided four-lane.
03/11-03/13	**REVISED PROGRAMMATIC EIS FOR MORGANZA, LA, TO THE GULF OF MEXICO HURRICANE PROTECTION PROJECT: Terrebonne and Lafourche Parishes, LA.** *Project Manager* - Prepared the EIS for this CEMVN civil works project aimed to reduce the risk of flooding and coastal erosion due to storm surges. Coordinated closely with CEMVN staff to develop and clearly describe alternatives and assess the direct, indirect, and cumulative social and environmental impacts of the alternatives. Earned a Performance Rating of Exceptional.
09/16-01/17	**PORT CAMERON EA: Cameron Parish, LA.** *Project Manager* - Served as lead author and manager of this EA to construct a port along the Calcasieu Ship Channel in compliance with all applicable environmental statutes, including, but not limited to, NEPA, the Endangered Species Act, the Fish and Wildlife Coordination Act, the Federal Farmland Protection Act, and the Clean Water Act.
01/17-Present	**GNOEC, LAKE PONTCHARTRAIN CAUSEWAY: St Tammany and Jefferson Parishes, LA.** *NEPA Specialist* - Ms. Carnes serves as NEPA Specialist for improvements to the Causeway. She provides regulatory stakeholder solicitation, environmental field investigations and assessments, and NEPA documentation. Several projects have been documented as Categorical Exclusions (CE) since 2011. GEC documented these CE projects in accordance with the DOTD's Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes. GEC prepared preliminary Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using DOTD's Environmental Determination Checklist. GEC prepared and conducted regulatory Solicitations of Views, prepared responses to regulatory comments/guidance, prepared wetland/water body survey reports and prepared Coastal Use Permit applications.
02/17-Present	**THIRD PARTY ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD), CPRA: Plaquemines, LA.** *Project Manager* - Ms. Carnes serves as a project manager on the GEC Team leading development of a third-party Environmental Impact Statement for the MBSD Project being proposed by CPRA. Ms. Carnes is preparing the EIS on behalf of the U.S. Army Corps of Engineers to support its Section 10/40/408 permit decision. The Mid-Barataria Sediment Diversion is a cornerstone of Louisiana's Coastal Master Plan. Ms. Carnes is responsible for overall development of the EIS and supporting documentation, including agency coordination, development of alternatives, and analysis of environmental impacts.
01/20-02-20	**PHASE I ESA GREENWOOD COMMUNITY PARK & BATON ROUGE ZOO: East Baton Rouge Parish, LA.** *Environmental Professional* - GEC was responsible for investigating the property in order to identify recognized environmental conditions (RECs) within and adjacent to the property. Ms. Carnes completed the following investigation procedures in compliance with ASTM E 1527-13: research of available federal, state, and local environmental databases for potential REC sites on, or within a specified distance of, the property; reviews of historical aerial photographs, Sanborn® Fire Insurance Maps, USGS topographic maps, and/or published soils and geologic information; interviews with state and local government agency representatives and/or persons knowledgeable of the property regarding documented inspections, violations, incidents, spill response, or past uses of therein; and preparation of a written report that identifies whether the property contains potential RECs and whether or not conditions warrant further investigation.
04/12-09/12	**MULTIPLE PHASE I ESAs FOR BRAC: Pointe Coupee Parish, LA.** *Environmental Professional* - Ms. Carnes was responsible for investigating numerous properties to identify recognized environmental conditions (RECs) within and adjacent to the following properties: New Roads Industrial Park, Kent East Property, Kent West Property, NRD Industrial Park, Oline Property. Ms. Carnes completed the following investigation procedures for all properties in compliance with ASTM E 1527-05: research of available federal, state, and local environmental databases for potential REC sites on, or within a specified distance of, the property; reviews of historical aerial photographs, Sanborn® Fire Insurance Maps, United States Geologic Survey (USGS) topographic maps, and/or published soils and geologic information; interviews with state and local government agency representatives and/or persons knowledgeable of the property regarding documented inspections, violations, incidents, spill response, or past uses of therein; visual observations of accessible portions of the property to identify current and historical REC sites; and preparation of a written report that identifies whether the property contains potential RECs and whether or not conditions warrant further investigation.

Firm employed by	G.E.C., Inc.		
Name	Jeff Robinson, PE	Years of relevant experience with this employer	27
Title	Environmental Engineer	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	B.S. / 1995 / Civil Engineering		
Active registration number / state / expiration date	29322 / Louisiana / 03-31-2025		
Year registered	2001	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: **Principal-in-Charge**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Robinson has over 38 years of civil/environmental engineering project management experience and provides planning, coordination, and consulting services for Federal & state regulatory compliance issues for numerous governmental & private sector clients. He is widely respected for his thorough & highly objective approach to environmental and transportation, and geotechnical issues as they relate to permitting, design, federal & state compliance, wetlands, hazardous materials, & other critical issues surrounding major infrastructure projects. His experience includes 27 years of permitting & compliance with USACE, US Coast Guard, & Louisiana DEQ. As Environmental Program (and Public Involvement) Manager, has helped LADOTD complete 37 projects exceeding $5-Billion in construction costs with on-time lettings.* ***He has completed NHI Course No. 142005 – National Environmental Policy Act (NEPA) and Transportation Decision Making.***
01/14-05/17 **SECTION 17 PROJECT**	**H.004987 US 190/COLLINS BOULEVARD WIDENING (LA 25 TO US 190B) ENVIRONMENTAL ASSESSMENT: Covington, LA.** *Environmental Project Manager*- Mr. Robinson's responsibilities included project management for the preparation of an EA with FONSI for the widening of approximately 3 miles of U.S. Hwy 190, a project which included the construction of new bridges across the Bogue Falaya River, in accordance with DOTD, FWHA, and NEPA requirements. GEC's services included development of a Purpose and Need statement, agency coordination, Solicitation of Views, and preparation of environmental documentation. The EA addressed REC sites, wetlands mitigation and permitting, Sections 4(f) and 6(f) consultations, floodplains, and T&E species consultations. He was responsible for this NORPC-led effort to improve traffic flow efficiency through the primary north-south roadway corridor. ***"Jeff Robinson and his group at GEC worked through numerous project changes and timeline starts and stops with a "can-do" attitude. GEC handled and coordinated issues that arose, including changes in right-of-way requirements and additional landowner outreach. Excellent coordination with DOTD Environmental." - Feedback from LADOTD PM after completion of the project***
01/14-05/16 **SECTION 17 PROJECT**	**H.004983 U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN-SPARTAN DRIVE): Slidell, LA.** *Environmental Project Manager* - Mr. Robinson's responsibilities included project management for the preparation of an EA with FONSI for the widening of approximately 2.8 miles in accordance with DOTD, FHWA, and NEPA requirements, a project which also included plans to raise the highway at its intersection with a flood protection levee. GEC's services included the development of a Purpose and Need statement, agency coordination, Solicitation of Views, and the preparation of environmental documentation. Among other items, the EA addressed REC sites, wetlands mitigation and permitting, Sections 4(f) and 6(f) consultations, floodplains, and T&E species consultations. The highway was heavily developed to one side and bordered on the other by a waterway. Initial 4-lane build proposals would have negatively affected residential and commercial properties, and no cost-effective, additional right-of-way was available to construct additional lanes. Mr. Robinson expedited stakeholder and public input to identify alternatives that could be constructed within existing state ROW. The Preferred Alternative increased capacity and reduced congestion without the acquisition of additional ROW.
02/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Environmental Lead* - Mr. Robinson is Environmental Lead for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr Flyover Ramp Design-Build Project, including preparation of the project's Storm Water Pollution Prevention Plan (SWPPP). Mr. Robinson prepared the SWPPP in accordance with General Permit for Storm Water Discharges Related to the Louisiana Department of Transportation and Development's Statewide Construction and Maintenance Activities Resulting in Land Disturbance (Permit LAR600000).

Firm employed by	G.E.C., Inc.
Name	**Jeff Robinson, PE** *continued resume*
02/07-04/09	**HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA.** *Environmental Engineer* - Mr. Robinson oversaw production of the environmental and NEPA documentation including performing the Phase I ESA in accordance with the scope and limitations of ASTM E 1527. In order to characterize Recognized Environmental Conditions (REC) sites for the project GEC: (1) reviewed federal, state, and local environmental databases; (2) conducted historical research; (3) interviewed pertinent personnel; and (4) performed a site investigation. Assessment revealed no recognized environmental conditions (RECs) on or in project vicinity.
06/95-06/13 **SECTION 17 PROJECT**	**US 71/165 FORT BUHLOW BRIDGE AND APPROACHES ENVIRONMENTAL ASSESSMENT: Alexandria/Pineville, LA.** *Environmental Support* - For the feasibility study, line and grade study, traffic studies, and EA, Mr. Robinson provided hazardous materials mitigation for bridge materials containing lead. GEC prepared solicitation of views, purpose and need, performed all environmental surveys, developed the environmental inventory, conducted public and stakeholder meetings, conducted a wetlands delineation, produced a wetlands findings report, developed mitigation measures, and prepared all permit drawings and applications including for USACE, The Red River Waterway Commission, USCG, and railroads. GEC also was responsible for scenic rivers class B application, floral and faunal communities, threatened and endangered species surveys, Phase 1 ESA and coordination, archaeological and historical resources including 4(f) properties, and all other environmental resources. GEC conducted a public meeting and public hearing, published the Final EA Report, and received a FONSI.
06/02-06/12	**700-99-0266 / LADOTD, TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM, US 165, 167, 425, AND 171, AND LA 15: Louisiana.** *Environmental Project Manager* - The program addressed the construction of more than 260 miles of new highway including 74 new bridges on existing and new alignments throughout Louisiana on an aggressive 10-year schedule subsequently accelerated to eight years. Environmental program functions included regulatory coordination and environmental documentation, permitting, and mitigation with, among other agencies, the U.S. Coast Guard, three U.S. Army Corps of Engineers Districts, numerous parish floodplain administrators, and the LA Department of Wildlife and Fisheries (18 of the 74 bridges crossed LA Scenic Streams). Mr. Robinson hosted a stakeholder outreach meeting in Baton Rouge attended by representatives from LADOTD, USCG, the three Corps Districts, and LDWF to develop standard operating procedures to assess, document, permit, and mitigate the new bridges using a standardized, universal process. Mr. Robinson completed all NEPA environmental documentation and permitting in five years, and all projects let in 8 years (2 years early).
07/15-Present	**H.004273.5 I-49 CONNECTOR, LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE: Lafayette, LA.** *Environmental Engineer* - Mr. Robinson manages a process including environmental, legal, real estate, design, and planning representatives that develops effective screening, evaluation, design, and construction approaches for contaminated sites located within ROW required for the I-49 Connector in Lafayette. He works closely with LDEQ to expedite regulatory tasks and decision-making regarding contaminated sites, and manages retainer contracts for Phase II and Phase III Environmental Site Assessment (ESA) services. He ensures contaminated sites are not purchased unknowingly; discounts purchase prices for contaminated sites; encourages current owners to begin/complete remediation prior to LADOTD acquisition; develops performance measures and construction methods for sites having use limitations/restrictions; and ensures legal protections are properly addressed and included in purchase documents.
06/95-Present	**GREATER NEW ORLEANS EXPRESSWAY COMMISSION (GNOEC): New Orleans, LA.** *Environmental Engineer* - Mr. Robinson has provided environmental program management oversight. He has prepared Programmatic and Categorical Exclusions for maintenance, repair, & improvement projects requiring coordination & permitting by USCG. GEC documented these projects in accordance with LADOTD's Environmental of Standard Practice guidance. GEC prepared Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using LADOTD's Environmental Determination Checklist. GEC prepared regulatory SOVs, prepared responses to regulatory comments, conducted wetland delineations and T&E assessments; prepared findings reports; and prepared Section 10/404, LDEQ Water Quality Certification, Coastal Use Permit, & USCG Bridge Permit applications.

Firm employed by	G.E.C., Inc.		
Name	Cary Bourgeois, PE	Years of relevant experience with this employer	38
Title	Senior Vice President	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	B.S. / 1983 / Civil Engineering		
Active registration number / state / expiration date	23414 / Louisiana / 09-30-2023		
Year registered 1989	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **QA/QC & Subject Matter Expert**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Bourgeois is GEC's Senior Vice President, Engineering Division, and he is currently involved in supervising activities and performing design services on several large-scale projects. Mr. Bourgeois is experienced in the areas of Roadway, Bridge, Toll Collection Systems and Intelligent Transportation Systems (ITS) design. He has extensive experience in safety inspection of bridges. He has valuable experience in the design of prestressed concrete girders, curved steel plate girders, continuous slabs, inverted "T" cap column bents, pile bents, footings, retaining walls, as well as geometry associated with bridge structures and roadways. He is thoroughly familiar with AASHTO Standard Specifications for Highway Bridges, AASHTO Policy on Geometric Design of Highways and Streets, Manual on Uniform Traffic Control Devices, the Highway Capacity Manual and the Standard Specifications for Structural Support for Highway Signs, Luminaries and Traffic Signals.*
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Principal in Charge* - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Mr. Bourgeois oversaw an investigation of the existing bridge over Dawson Creek to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM. This investigation started with an NBIS bridge inspection to determine Condition Ratings for the bridge superstructure, substructure, and piles. A Bridge Load Rating was then carried out based on the AASHTO Manual of Bridge Evaluation and the LADOTD BDEM. Based on the load rating, GEC recommended that the existing bridge be replaced. He also oversaw the preliminary design for the replacement bridge as well as the design study for a six-lane, curb and gutter roadway with pedestrian facilities and subsurface drainage. (City-Parish Project No. 19-CP-HC-0034)
06/17-Present **SECTION 17 PROJECT**	**H.003074 / I-10 WIDENING, WILLIAMS TO VETERANS: Jefferson Parish, LA.** *Principal in Charge* - Mr. Bourgeois was responsible for road and bridge design, including the superstructure and substructure load rating for existing bridges and ramps for this highly congested 2.28 mile urban interstate along with **design of a diamond interchange (WB) and partial cloverleaf interchange (EB)**. The extensive load rating and documentation, allowed LADOTD to make an informed decision on widen or replace the existing bridges. The data supported the replacement of the bridges. GEC designed concrete slab spans, pre-stressed concrete girder spans and steel girder spans. All pre-stressed girders were Louisiana (LG) girders designed in accordance with AASHTO LRFD bridge specs. GEC completed 100% preliminary plans which included east and west on and off ramps to Veterans Blvd.
08/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Design Manager* - Mr. Bourgeois is responsible for the overall design and design quality control of this $53,000,000 project which will provide exit ramps that are separated from the merge of I-10 and I-12. To accomplish this, I-12 westbound will be re-routed under a rebuilt I-10 westbound bridge. He oversaw completion of a photometric report and lighting plans. The lighting design consists of both high mast and low mast lighting. GEC provided the roadway construction plans for this project and was responsible for the geometric layout for the entire project, ensuring conformance to DOTD and AASHTO standards. GEC provided hydraulic design which included the design of several subsurface drainage systems and cross drains. GEC also performed hydraulic channel analysis to ensure the project did not negatively impact the surrounding areas. During the proposal phase, Mr. Bourgeois and his team studied **several conceptual interchange layouts** before deciding on the one that provides the best outcome for both the travelling public and the surrounding neighborhoods.
10/19-11/20	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *Principal in Charge* - The project included the replacement of two slab span bridges. Mr. Bourgeois was Principal-in-Charge and oversaw the road and bridge design phase of the project.

Firm employed by	G.E.C., Inc.
Name	Cary Bourgeois, PE *continued resume*
1991-1997	**S.P. NO. 700-28-0004 / ROUTE I-12, I-10 FROM ACADIAN THRUWAY TO U.S. 61: Baton Rouge, LA.** *Project Manager* - This project consisted of the rebuilding and widening while under traffic of 2.2 miles of urban interstate highway with roadway and bridges. The bridges consist of AASHTO pre-stressed concrete girders (50' to 90' spans) and steel plate girders (135' to 180' spans). The project also required a bridge feasibility study and drainage study. Mr. Bourgeois was the project manager and was responsible for providing road and bridge design.
12/93-08/12 **SECTION 17 PROJECT**	**U.S. 71/U.S. 165, FORT BUHLOW BRIDGE AND APPROACHES OVER THE RED RIVER: Alexandria/Pineville, LA.** *Principal in Charge* - This 2.28-mile-long multi-phase project provides for the construction of approach roadways, a new six-lane bridge over the Red River, access ramps for I-49 and local traffic, and KCS railroad overpass. The project began with an Engineering Report consisting of a line and grade corridor study, traffic study and bridge feasibility study. An Environmental Assessment was developed concurrent with the engineering study. The project features a 1,000' three-span continuous steel plate girder unit over the Red River, supported on piers founded in the river. Mr. Bourgeois oversaw the line and grade study and the preliminary and final design of the roadway and bridges.
1997-2012	**S.P. NO. 454-01-0051 AND 258-32-0016 / ROUTE I-12, ESSEN LANE INTERCHANGE: Baton Rouge, LA.** *Project Manager* - This project consists of the installation of on and off ramps to complete the I 12/Essen Lane Interchange. The off ramp consists of a 1,200' long eight-span bridge with continuous curved steel girder units. The project would also involve the construction of sound barriers. Mr. Bourgeois was the project manager and was responsible for providing road and bridge design.
03/95-06/10	**450-15-0089 / ROUTE I-10, CAUSEWAY BLVD TO 17TH STREET CANAL: Metairie, LA.** *Project Manager/Engineer of Record/Structural Engineer* - Mr. Bourgeois performed Quality Assurance and project management on this project. He specifically acted as QA for all disciplines involved including surveying, structures/bridge design, electrical & controls design and civil engineering design. Project consisted of widening while under traffic of 1.64 miles of urban interstate highway from six to 10 lanes with roadway and bridges. He performed PPC girder layout and design and performed the design check of a two-span (425' total length) continuous steel girder with integral steel intermediate bent.
07/09-06/12	**U.S. ARMY CORPS OF ENGINEERS, LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY, HURRICANE PROTECTION PROJECT LPV 17.2, BRIDGE ABUTMENT AND FLOODWALL TIE-INS AT CAUSEWAY BRIDGE: Metairie, LA.** *Overall Project Manager* - This project was located in Jefferson Parish, Louisiana and was part of the Lake Pontchartrain and Vicinity, New Orleans, Louisiana, Hurricane Protection Project. This reach consisted of levees, floodwalls, crib walls, Causeway Boulevard and other miscellaneous access points. The designs were intended to bring the hurricane protection to the Phase II 100-year level. The professional services required of GEC included detailed engineering and design (E&D), preparation of a Design Report (DR), preparation of plans and specifications (P&S), and E&D support during advertisement.
1991-Present	**GREATER NEW ORLEANS EXPRESSWAY COMMISSION (GNOEC), LAKE PONTCHARTRAIN CAUSEWAY, CONSULTING ENGINEER: Metairie, LA.** *Overall Project Manager* - GEC has served as Consulting Engineer for GNOEC since 1991 performing Trust Indenture Services in accordance with the GNOEC General Bond Resolution. Mr. Bourgeois has been associated with the project since the selection of GEC as Consulting Engineer and has served as Project Manager for over 15 years. In this time GEC has designed and implemented over $125,000,000 in improvements to the GNOEC system. Mr. Bourgeois is the project manager and is responsible for all engineering services including roadway and bridge design.
2019-Present	**LA SAFE-AIRLINE AND MAIN COMPLETE STREETS: Laplace, LA.** *Principal in Charge* - This project consists of a 10' shared use path, 5' sidewalk along the north side of US 90, bike lanes on shoulders, and softening of the median. Existing ditches will have pipes added and be reshaped to provide detention ponds to reduce time of concentration. Along Main St., the design will provide parallel parking utilizing decorative brick and permeable base to reduce time of concentration. GEC oversaw the calculation of preliminary quantities and development of a preliminary estimated construction cost. GEC proposed the conceptual design to the Parish and received approval. GEC also oversaw development of the fee for all costs from surveying to construction. Mr. Bourgeois is responsible for the oversight of all road and bridge engineering services.

Firm employed by	G.E.C., Inc.		
Name	Sherri LeBas, PE	Years of relevant experience with this employer	7
Title	Senior Vice President	Years of relevant experience with other employer(s)	31
Degree(s) / Years / Specialization	B.S. / 1985 / Civil Engineering		
Active registration number / state / expiration date	23844 / Louisiana / 03-31-2025		
Year registered 1990	Discipline: Professional Engineer, Civil & Environmental		
Contract role(s) / brief description of responsibilities	Role on this Project: **QA/QC & Subject Matter Expert**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Ms. LeBas is a Senior Vice President of GEC. She is a professional civil engineer with 36 years of experience in designing and managing numerous projects and programs during her career in Louisiana state government and private industry. During her 24.5 years at the Louisiana Department of Transportation and Development (LADOTD), Ms. LeBas designed and managed projects for a combined 14 years in the Road Design Section, which led to serving as a facilitator for the Change Management Program, Assistant to the Secretary for Policy, Deputy Secretary and then Secretary for 6 years from 2010 to 2016. From 1998 to 2003, Ms. LeBas managed projects funded through Capital Outlay at the Louisiana State Division of Administration, Facility Planning and Control. In May of 2016, Ms. LeBas brought her skills and experience to GEC providing services for LADOTD, City of Kenner, City of New Orleans, East Baton Rouge Parish, and St. Tammany Parish. Ms. LeBas also meets with elected officials and other stakeholders discussing policy and resources required for infrastructure. Additionally, Ms. LeBas discusses opportunities for teaming with other consulting firms in order to present and provide a client with the best team possible to provide outstanding services and deliverables.*
09/20-Present	**H.004100 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: Baton Rouge, LA.** *Assistant Project Manager* - Ms. LeBas serves as Assistant Project Manager for this CMAR project, leading the development and annual updates of the Design Quality Manual, Project Management Plan, Initial Financial Plan, Project Implementation Plan and document control. Ms. LeBas is managing the Community Connections/ Context Sensitive Solutions process, which includes meetings with stakeholders and public outreach. In addition, Ms. LeBas provides management oversight of the design elements being designed by GEC engineers, which include lighting (roadway and enhancement), retaining wall, bridge, and noise walls and coordination with roadway and overall design elements.
08/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA.** *Quality Design Manager* - Ms. LeBas is providing management of the quality design reviews for the GEC/Boh Bros. team. GEC is responsible for engineering design and quality reviews for roadway, drainage, bridge, noise walls, traffic management plans, intelligent transportation systems, and lighting. During the proposal phase, GEC studied **several conceptual interchange layouts** before deciding on the one that provides the best outcome for both the travelling public and the surrounding neighborhoods.
09/91-01/98	**S.P. NO. 013-12-0039 / US 190 (LA 22 – BAYOU CASTINE) (STATE PROJECT NUMBER 013-12-0032) AND US 190 (BAYOU CASTINE – SOUTHEAST LA STATE HOSPITAL): St. Tammany Parish, LA.** *Project Manager LADOTD Road Design Section* - Ms. LeBas served as the project manager for the widening project of US 190 during the **environmental assessment and line and grade** and the preliminary plan phases of this project. The environmental assessment phase with line and grade involved reviewing several different alternatives and typical sections such as 4 lane with different median widths and five lane sections and the impacts of each alternative which were prepared in-house by the design squad. Ms. LeBas presented the various alternatives at the first public meeting in September 1992 for this project at the City of Mandeville City Hall. Once the preferred alternative was chosen and a FONSI obtained, Ms. LeBas managed the consultant design of the preliminary plan development coordinating the plan development with other design sections at LADOTD.
2016-Present	**ROAD TRANSFER PROGRAM MANAGEMENT: Statewide, LA.** *Principal*-in-Charge - Ms. LeBas serves as a resource to GEC's Program Manager of the LADOTD Road Transfer Program. Ms. LeBas provides feedback, is the direct link for communication and service between GEC's Project Manager who is stationed at LADOTD Headquarters and GEC's staff, and attends bi-monthly status meetings with the LADOTD Road Transfer Team.

Firm employed by	**G.E.C., Inc.**
Name	**Sherri LeBas, PE** *continued resume*
07/95-01/98	**H.004562 / AMBASSADOR DRIVE EXTENSION (LA 339-US 90) (STATE PROJECT NUMBER): Lafayette Parish, LA.** *Project Manager LADOTD Road Design Section* - Ms. LeBas served as the roadway project manager for the **line and grade study** of various alignments during the Environmental Assessment of this project. The alignments included an alignment along La Nouvelle Road as well as south of the golf course on new alignment and were developed in-house. Ms. LeBas's design squad developed the displays for the Public Meetings and Ms. LeBas lead the Public Meetings answering questions from the public and the media for this project during this line and grade and environmental phase of the project. Ms. LeBas worked with the DOTD Environmental Section as they performed the NEPA assessment for the Environmental document.
03/10 – 01/16	**LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (LADOTD): Baton Rouge, LA.** *Secretary* - Ms. LeBas set the vision and led LADOTD in the delivery of the $1.8 Billion annual transportation infrastructure capital and operating program. She developed and discussed transportation policy, issues, feedback, future planning with stakeholders, media, citizens and local, state and national public and elected officials. She pursued and obtained funding working with state and federal officials. She has the skills and credentials to provide design guidance, work with staff to develop solutions to some of the most complicated design policy issues. Some notable projects that required Ms. LeBas's leadership included the funding, design and construction of I-49 from I-220 to the Arkansas State line which included the 2019 ACEC Award Winning I-220/I-49 Interchange which included aesthetic features such as the locally designed column motifs and decorative lighting; LA 1 from Leeville to Fourchon TIFIA refinancing; Design Build projects on I-12 in Livingston Parish as well as two Design Build Interchange projects on US 90 (Future I-49).
09/03 – 05/05	**THE TRANSPORTATION MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA.** *Assistant to the TIMED Program Manager, LADOTD Road Design Section* - Ms. LeBas served as the Assistant TIMED Program Manager for the $5.2 Billion Program. She was responsible for the financials working with LADOTD administration, LADOTD staff and consultant. This included reviewing the program changes, change orders, and total program costs from design through construction. She assisted in the coordination and management of the consultant's plan delivery and construction schedule.
04/95 – 01/98	**US 165 (I-10 TO WOODWORTH)(STATE PROJECT NUMBER 014-02: 0020-0023|014-03: 0022, 0023, 0027, 0028|014-04: 0028, 0029, 0032|014-05: 0017, 0018, 0020, 0021, 0031): Jefferson Davis, Allen, and Rapides Parish, LA.** *Project Manager LADOTD Road Design Section* - Ms. LeBas served as the project manager for the consultant designed expanded line and grade plans for the addition of two lanes to the existing roadway which encompassed 16 roadway segments. She negotiated contracts, developed the plan development schedule, reviewed the plan in hand design plans and coordinated review comments with other LADOTD sections. She attended all of the plan in hand field visits for each segment, coordinating and addressing all comments for incorporation into the plans.
07/88 – 08/97	**I-49 SHREVEPORT URBAN INTERSTATE (INNER LOOP EXPRESSWAY (LA 3132) TO THE I-49/I-20 INTERCHANGE) (STATE PROJECT NUMBERS 455-08: -0013, 0015, 0016, 0017, 0018, 0019, 0020, 0021, 0022, 0023, 0024, 0025, 0028, 0030, 0033, 0034, & 0037): Caddo Parish, LA.** *Project Manager LADOTD Road Design* - Ms. LeBas served as Project Manager responsible for scope, schedule & budget, design plans, specifications, & estimate (PS&E) of new interstate (I-49) through Shreveport Urban area which at this time was the largest roadway program at LADOTD. During construction, Ms. LeBas worked closely with District Construction Engineers to resolve issues. She was responsible for checking roadway design plans & coordinating plan reviews with other LADOTD sections. Ms. LeBas prepared the summary of estimated quantities and assisted in the development of special specifications required. She designed & developed the sequence of construction for the I-49/I-20 interchange which included new concept to LA to use concrete barriers to separate lanes of interstate traffic during construction. She also met with property owners with the corridor to discuss driveway access, modifications and concerns.

Firm employed by	G.E.C., Inc.		
Name	Bijan Sharafkhani, PE	Years of relevant experience with this employer	<1
Title	Vice President, Environmental Industrial Division	Years of relevant experience with other employer(s)	41
Degree(s) / Years / Specialization	B.S. / 1982 / Civil Engineering; M.S. / 1988 / Civil Engineering		
Active registration number / state / expiration date	24202 / Louisiana / 09-30-2023		
Year registered 1991	Discipline: Professional Engineer, Civil, Environmental		
Contract role(s) / brief description of responsibilities	Role on this Project: **Subject Matter Expert**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Sharafkhani recently joined the GEC Team, having over 40 years of experience in civil and environmental engineering fields. He has served in various managerial and technical capacities in solid wastes, hazardous waste remediation, Small Business Assistance, Clean Water State Revolving Loan, and Nonpoint Source Pollution programs with Louisiana Department of Environmental Quality (LDEQ) for more than 33 years. While at LDEQ, Mr. Sharafkhani served as a Confidential Advisor to the Secretary of LDEQ and advises on policy decisions, permitting, enforcement, regulatory and technical issues, legislative matters, and on short- and long-term planning. He also worked as an Administrator in the Business, Community Outreach, and Incentive Division, and in the Waste Division, where he started as an engineer and was promoted to engineering supervisor, engineering manager, and division Administrator. Prior to LDEQ, he also held engineering positions with Woodward Clyde Consultants and the Sewerage and Water Board of New Orleans.* *Mr. Sharafkhani will serve as a Subject Matter Expert regarding the superfund site located in the northwest quadrant of this project, as he is a highly qualified expert due to his extensive experience in superfund sites and hazardous waste material. With a career spanning over four decades, Mr. Sharafkhani has established himself as a recognized authority in the field. His expertise encompasses the assessment, management, and remediation of contaminated sites, making him an ideal candidate to guide our efforts in addressing environmental challenges. Throughout his career, he has successfully overseen numerous projects involving the cleanup and restoration of superfund sites, demonstrating his ability to navigate complex regulatory frameworks and develop innovative solutions. Additionally, Mr. Sharafkhani's in-depth knowledge of hazardous waste materials enables him to identify potential risks, implement effective safety measures, and propose sustainable strategies for waste management, avoidance, and/or remediation. His proven track record, coupled with his dedication and passion for environmental preservation, positions him as an asset to our project.*
2016-02/2023	**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ): Louisiana.** *Confidential Advisor to the Secretary* - Mr. Sharafkhani advised the Secretary on policy decisions, permitting, enforcement, regulatory and technical issues, legislative matters, and on short- and long-term planning.
2008-2016	**LDEQ: Louisiana.** *Business, Community Outreach and Incentive Division, Administrator* - Mr. Sharafkhani was responsible for overall Division activities including: • Cleanwater State Revolving Loan Program that provides low interest loan to governmental entities for wastewater improvement projects. Once the loan is approved, the recipient is required to meet all engineering, financial, legal and construction requirements. • Nonpoint Source Pollution Program, its mission is to either fully or partially restore waterbodies that are impaired by non-point source pollution. • Small Business/Small Community Compliance Assistance Program that provides environmental regulatory/permitting assistance to small businesses and municipalities.
2006-2008	**LDEQ: Louisiana.** *Waste Division Administrator* - As Administrator, Mr. Sharafkhani was ultimately responsible for overall activities of the Division. These activities include: • Permitting decisions for all solid and hazardous facilities in the state. • Water Quality Certification. • Corrective measures for solid and hazardous facilities. • Trial burns for incinerators, boilers, and industrial furnaces

Firm employed by	**G.E.C., Inc.**
Name	**Bijan Sharafkhani, PE** *continued resume*
2000-2006	**LDEQ: Louisiana.** *Engineer Manager, Technology Division* - Mr. Sharafkhani was responsible for all engineering recommendations/decisions relating to design, construction and monitoring all solid waste facilities and hazardous waste landfills, and responsible for engineering recommendations associated with soil and groundwater remediation resulting from underground/above ground storage tanks and pipeline leaks.
1995-2000	**LDEQ: Louisiana.** *Engineer Manager, Permits Section, Solid Waste Division* - As Permits Section Manager, he was ultimately responsible for all decisions and recommendations made by this Section to the Division Administrator relating to permitting, construction, monitoring remediation of all solid waste facilities.
1992-1995	**LDEQ: Louisiana.** *Engineer Supervisor, Solid Waste Division* - Mr. Sharafkhani oversaw the engineering reviews associated with permitting, closure and design/construction of all solid waste facilities.
1990-1992	**WOODWARD CLYDE CONSULTING: Louisiana.** *Project Manager/Engineer* - As project manager, Mr. Sharafkhani directed a 10-million-dollar remediation and management of contaminated sediment at a major refinery in Louisiana, and directed technical staff in design, permitting & construction of solid and hazardous facilities.
1988-1990	**LDEQ: Louisiana.** *Engineer, Solid Waste Division* - Mr. Sharafkhani performed engineering reviews of permit applications and closure plans and performed construction inspections of solid waste facilities.
1982-1988	**SEWERAGE AND WATER BOARD OF NEW ORLEANS: New Orleans, LA.** *Environmental Specialist/Engineer* - Mr. Sharafkhani issued permits for industrial discharges, reviewed plans for pre-treatment systems, and designed gravity sewers and drains, sewer force mains, and water mains.

PERSONNEL RESUMES
Traffic

Firm employed by	Arcadis		
Name	Skyler Waaso, PE, PTOE	Years of relevant experience with this employer	2
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	B.S. / 2009 / Civil Engineering		
Active registration number / state / expiration date	39070 / Louisiana / 09-30-2024 4600 / USA / 03-2025		
Year registered: 2017	Discipline: Professional Engineer, Civil PTOE		
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering Lead**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Waaso is a Senior Traffic Engineer with 13 years of experience in traffic modeling and studies. He is experienced with a range of traffic modeling software including Highway Capacity Software, Vissim (microsimulation), Synchro, Vistro, and Sidra. Mr. Waaso has experience managing and delivering a wide range of traffic projects for LADOTD, and other DOTs across the country, pertaining to **interchange modification/justification reports, intersection and corridor studies, access management studies, signal warrant and timing studies, Stage 0 feasibility studies, NEPA studies, and safety studies**. Mr. Waaso meets MPR #12 and has completed the LADOTD Traffic Engineering Process and Report Training.*
02/17 – 06/19 **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY TRAFFIC STUDY AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Denham Springs, LA. Traffic Engineer. Responsible for traffic analysis of proposed alternatives using Vissim software. Work involves completing an **Environmental Assessment** and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange. Conducted **signal warrant analysis** and developed optimized timing plans for proposed improvements. An **Interchange Modification Report** was prepared to document results of the traffic study and proposed improvements.
04/16 – 02/17	**I-110 TO TERRACE AVENUE INTERCHANGE MODIFICATION REPORT, LADOTD:** East Baton Rouge Parish, LA. Traffic Engineer. Prepared an **Interchange Modification Report** for FHWA on a future connection along 1-110 SB in downtown Baton Rouge. Main tasks included modeling of the existing, no build, and build alternative in Vissim and completing the written Interchange Modification Report that was submitted to FHWA.
02/17 – 02/18	**SAFETY STUDIES IDIQ - I-49 INTERCHANGE STAGE 0 TRAFFIC AND SAFETY FEASIBILITY STUDY, LADOTD:** Lafayette Parish, LA. Traffic Engineer. Responsible for conducting traffic study and associated tasks including **data collection and analysis, traffic and safety analysis, and conceptual design drawings**. The purpose of the project was to identify feasible improvement alternatives to address historical safety issues along the I-49 corridor and at 3 interchanges. Participated in meetings with LADOTD HQ and District 03 team members to understand project needs and develop context sensitive solutions.
02/17 – 09/18	**TRAFFIC ENGINEERING IDIQ - US 71 CORRIDOR - PHASE III TRAFFIC AND SAFETY CORRIDOR STUDY, LADOTD:** Rapides Parish, LA. Traffic Engineer. Responsible for conducting traffic study tasks including traffic data collection, signal warrant analysis, traffic analysis, crash analysis, alternative and countermeasure development, predictive safety analysis, and conceptual drawings.
02/17 – 02/18	**TRAFFIC ENGINEERING IDIQ – US 165 TRAFFIC AND CORRIDOR STUDY, LADOTD:** Ouachita Parish, LA. Traffic Engineer. Responsible for traffic study tasks including traffic data collection and volume development, microsimulation modeling (Vissim) of existing and future conditions, developing capacity, access management and safety improvements, and study documentation.
09/19 – Present	**INNOVATE MOUND PROJECT, MDOT:** Macomb County, MI. Senior Traffic Engineer. Responsible for traffic engineering tasks including conducting a corridor traffic study of Mound Road from I-696 to M-59. Traffic modeling and analysis was performed to develop proposed improvements including capacity, access management, safety, multi-modal and traffic signal improvements. Developed traffic study documentation and provided transportation management during construction.

Firm employed by **Arcadis**	
Name	**Skyler Waaso, PE, PTOE** *continued resume*
01/18 – 06/19	**TRAFFIC ENGINEERING IDIQ - I-20 MESOSCOPIC MODEL AND TMP USING DYNAMEQ, LADOTD:** Bossier Parish, LA. Traffic Engineer. Assisted with the development of mesoscopic traffic model using Dynameq to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project is anticipated to disrupt traffic in this critical portion of I-20. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, safety analysis, operational analysis, assistance with public outreach, development of a Level 4 TMP, and development of work zone mitigation strategies.
06/15 – 02/17	**LA 59 ROUNDABOUT CORRIDOR TRAFFIC STUDY, LADOTD:** St. Tammany Parish, LA. Traffic Engineer. Performed traffic analysis for a segment along the LA 59 corridor in Covington, Louisiana. Main tasks included analyzing the corridor's existing conditions and developing alternatives that would improve the safety and capacity needs of the corridor. Performed the traffic analysis in Synchro and Sidra as well as review crash reports and summary the crash history. Developed alternatives for the corridor and presented our concept to the DOTD district office and parish representatives. Completed a stamped and signed roundabout report.
04/19 – 06/19	**TRAFFIC SIGNAL DESIGN IDIQ - US 90 TRAFFIC SIGNAL TIMING UPGRADES/LADOTD:** Lafayette Parish, LA. Traffic Engineer. Project tasks involved traffic data collection and analysis, traffic signal warrants, traffic signal inventory, peak period determination and observations, warrant analysis, travel time runs, traffic signal timing analysis using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards
02/20 – Present	**U-23 FLEX ROUTE TRAFFIC STUDY, MDOT:** Livingston County, MI. Senior Traffic Engineer. Responsible for traffic modeling and alternative analysis for US-23 between M-36 and I-96. Work includes analysis of build alternatives, including developing and calibrating existing Vissim models to FHWA/ MDOT standards and using the models to compare the projected future traffic operations of build alternatives, including the extension of the existing US-23 Flex Route north of I-96. The US-23 Flex Route is a part-time dynamic hard shoulder use facility north of Ann Arbor. This study will evaluate if and how the Flex Route can be extended approximately five miles from 8 Mile Road to I-96. The study will include conducting traffic and geometric analyses, road and bridge scoping, conducting environmental surveys with appropriate reports and preparing National Environmental Policy Act (NEPA) documentation. The study will include traffic, road, bridge, ITS components, safety and drainage. There is also a public engagement aspect to the project that will involve two stakeholder meetings and two public meetings.
07/19 – Present	**I-375 CORRIDOR IMPROVEMENTS, MDOT:** Detroit, MI. Senior Traffic Engineer. Responsible for the operational analysis of build alternatives and competing the Interchange Access Change Request (IACR) document. The build alternatives modeled in Vissim converted an urban freeway into an urban boulevard. The build alternative also included a new traffic forecasting methodology, which was developed by working with SEMCOG and their dynamic traffic assignment model to consider potential traffic impacts outside of the study area using Synchro and HCS. HNTB is providing owner's representative services to MDOT. The project will promote and support walkability, increase transit access, and improve non-motorized connections and urban-friendly linkages between businesses, cultural, entertainment destinations, and neighborhoods. HNTB's scope of services include environmental clearance, early preliminary engineering, project management, project controls, federal compliance, public involvement, procurement, oversight of design, and construction inspection services.

Firm employed by	Arcadis		
Name	Ari Deitch, PE, PTOE, PTP, RSP	Years of relevant experience with this employer	9
Title	Traffic Engineer	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	B.S. / 2012 / Biological Engineering		
Active registration number / state / expiration date	41842 / Louisiana / 03-31-2024 PTOE #4346 / USA / Exp. 11/2023; PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 12/2024; ATSSA TCT / TCS		
Year registered	2017	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Deitch is a Senior Traffic Engineer specializing in traffic engineering and design, safety, transportation management, and conceptual roadway design. Mr. Deitch has experience managing and working on projects for LADOTD and the City of Baton Rouge, as well as other DOTs across the country, pertaining to* ***NEPA studies, interchange modification / justification reports, Stage 0 feasibility studies, transportation management plans, traffic, and safety studies pedestrian and bicycle improvements, access management, signal design, and signing and marking design****. He has experience and proficiency in IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS and MicroStation software. Mr. Deitch meets MPR #12 has completed LADOTD Traffic Engineering Process and Report Training.*
07/14 – 11/19 **SECTION 17 PROJECT**	**H.003771.2 I-10 (LA 73, LA 74, & LA 429) INTERCHANGE FEASIBILITY STUDIES, LADOTD:** Ascension Parish, LA. Senior Traffic Engineer. Responsible for traffic study and Vissim microsimulation modeling in accordance with LADOTD Traffic Engineering Process and Report Guidelines. Provided volume development, build alternatives, conceptual design drawings, construction cost estimates for the **Interchange Modification/Justification Report. Evaluated all interchange alternatives** for existing and proposed interchange locations and created and impacts analysis, matrix, and inventory of all potential environmental resources for identified alternatives.
07/14 – Ongoing **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY TRAFFIC STUDY AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Denham Springs, LA. Traffic Engineer. Responsible for traffic analysis of proposed alternatives using Vissim software. Played a key role in the development of preliminary roadway design drawings incorporate Complete Streets. Work involved completing an **Environmental Assessment** and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange. Developed an **Interchange Modification Report** including traffic study results and responses to FHWA Policy Points.
07/14 – Ongoing **SECTION 17 PROJECT**	**H.000688.2 US 11 ENVIRONMENTAL ASSESSMENT, LADOTD:** St. Tammany Parish, LA. Senior Traffic Engineer. Responsible for traffic studies, crash analysis, operating speed tabulations, intersection and corridor analysis, line and grade, and public outreach for the **Environmental Assessment** for the proposed bridge replacement and upgrade of existing undivided highway to a four-lane superstreet. Critically, this project includes analysis of several innovative alternatives for the proposed corridor, including "superstreets" and J-turn concepts.
04/22 – Ongoing	**LA 30 (I-10 TO EBR PARISH LINE) ENVIRONMENTAL ASSESSMENT, LADOTD:** Ascension Parish, LA. Senior Traffic Engineer. Responsible for technical advisory of traffic engineering tasks including traffic data collection, peak period observations, volume projections and Highway Capacity Analysis (multi-period analysis using Highway Capacity Software) and ensuring conformance with LADOTD TEPR Requirements.
03/17 – Ongoing	**I-49 SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT, LADOTD:** St. Mary Parish, LA. Senior Traffic Engineer. Responsible for traffic engineering tasks including data collection, volume development, Vissim microsimulation model calibration, and alternative development and analysis. The purpose of the project is to conduct a **Supplemental Environmental Impact Statement (SEIS)** study to quantify the impacts of converting US-90, which has numerous existing access connections, to a control of access interstate (future I-49) facility. Because the study area is not included within an MPO area, Arcadis developed a unique volume development methodology to estimate the redistribution of traffic that would result from the conversion of US-90 to I-49.

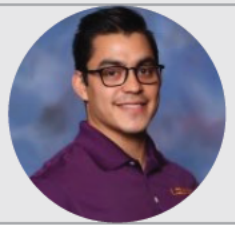
Firm employed by **Arcadis**	
Name	**Ari Deitch, PE, PTOE, PTP, RSP** *continued resume*
05/19 – 11/22	**I-20 / I-220 INTERCHANGE IMP. AND BAFB ACCESS TMP AND IMR, LADOTD:** Bossier Parish, LA. Traffic Engineer. Responsible for development of addendum to **Interchange Modification Report**, Transportation Management Plan, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20 / I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.
08/14 – 10/18	**US 71 CORRIDOR TRAFFIC AND SAFETY STUDY – PHASE 1-3, LADOTD:** Rapides Parish, LA. Traffic Engineer. Responsible for providing **traffic data collection, warrant studies, traffic analysis, safety data analysis, and development of conceptual layouts**. Data collection effort included automated one-week counts, manual turning movement counts and spot speed studies. Collected crash data for the most recent three years from LADOTD crash database, analyzed crash summaries and identified historical high-crash locations and over-representative crashes, determined crash types, frequencies and crash rates, reviewed individual crash reports to determine type and location of each crash, identified crash "hot-spot" locations, contributing factors for high-crash rates, and determined potential improvements.
11/20 – Ongoing	**I-10 CMAR:** LADOTD East Baton Rouge Parish, LA. Traffic Engineer. Responsible for wide range of traffic engineering tasks including development of permanent signing plans, **Interchange Modification Reports**, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment.
10/19 – Ongoing	**I-10 NEW ORLEANS TO SLIDELL HARD SHOULDER RUNNING, LADOTD:** Orleans Parish, LA. Traffic Engineer. Responsible for the development of conceptual drawings and typical sections for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell. Purpose of the project is to evaluate the feasibility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and congestion along critical segments of the corridor.
08/19 – 02/20	**TRAFFIC ENGINEERING IDIQ - US 61 ACCESS MANAGEMENT AND CORRIDOR STUDY, LADOTD:** East Baton Rouge Parish, LA. Senior Traffic Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternatives to maximize operational and safety benefits. Provided technical oversight for **traffic analysis using Highway Capacity Software 7, signal warrant analysis, and predictive safety analysis**. Assisted with the development of construction cost estimates and benefit-cost analysis.
02/15-01/18	**TRAFFIC ENGINEERING IDIQ - LA 3105 (GREEN ACRES TO LA 72) CORRIDOR STUDY, LADOTD:** Bossier Parish, LA. Traffic Engineer. Responsible for development/evaluation of existing and future year conditions using a calibrated microsimulation model (Vissim). Designed alternatives for phased implementation based on identified needs and input from local stakeholders including medians, restricted intersections, roundabouts, roadway widening, and signal timing enhancements.
08/14 – 06/15	**LA 3235 STAGE 0 FEASIBILITY STUDY, LADOTD:** Lafourche Parish, LA. Traffic Engineer. Responsible for review of existing crash data and traffic operations analysis, development of safety countermeasures, conceptual drawings, and Stage 0 documentation. LADOTD Stage 0 Safety Study to develop access management strategies and roadway improvements that will maintain and improve mobility, improve safety, support existing and future development along the LA 3235 corridor. The LA 3235 corridor was initially constructed as a high-speed roadway to facilitate truck traffic to and from Port Fourchon. Since its construction, numerous commercial and residential developments have created unsafe conditions along the corridor.

Firm employed by	Arcadis		
Name	Kester Hollier, PE, PTOE	Years of relevant experience with this employer	1
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization	B.S. / 2004 / Civil Engineering		
Active registration number / state / expiration date	34304 / Louisiana / 03-31-2025; PTOE #3928 / USA / Exp. 11/2024		
Year registered 2009	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Hollier possesses a wide breadth of experience in the field of transportation engineering including feasibility studies,* ***traffic engineering, signal timing and design, roadway design, complete street improvement projects, roadway safety analysis and design****, and construction management and inspection. Working on a wide variety of projects from the planning and conceptual phases to the design and construction phases, has given him the experience to help identify the needs and requirements for projects. This experience allows him to understand stakeholders ranging from local public agencies to state DOTs and helps provide expertise in achieving successful solutions for a variety of projects. Mr. Hollier meets MPR #12 and has completed LADOTD Traffic Engineering Process and Report Training.*
05/14 – 08/20	**CAUSEWAY BLVD. AT EARHART EXPWY. INTERCHANGE, LADOTD:** Jefferson Parish, LA. Traffic/Civil Engineer. Responsible for the design of traffic control and construction sequencing, pavement marking layout, quantity analysis, cost estimates, and quality control for a new interchange at LA 3139 (Earhart Expwy.) and LA 3046 (Causeway Blvd.) in Jefferson Parish, LA. Provided review for the interchange traffic sign and traffic signal timings and design. Identified all necessary design waivers and design exceptions required for LADOTD approval. Provided geometric layout design, typical section design and review, and joint layout design for several interchange ramps and underpasses.
09/12 – 02/16	**STAGE 0 FEASIBILITY STUDY AND STAGE 1 EA FOR REPLACING BELLE CHASSE TUNNEL AND BRIDGE, LADOTD:** Plaquemines Parish, LA. Traffic Engineer. Responsible for the feasibility study and traffic analysis along LA 23 (Belle Chasse Highway) between LA 428 (Behrman Highway) and LA 406 (Woodland Highway) for multiple 6-lane bridge alternatives proposed to replace the existing Belle Chasse Tunnel and lift bridge over the Intercoastal Waterway. These alternatives included 3%, 4%, and 5% bridge grades that modified roadway geometry and intersection location. Responsible for the review of roadway design and costs for the Line and Grade Study along with the review of the construction sequencing and traffic maintenance of the constructability review.
11/20 – Present	**I-10 CMAR, LADOTD:** East Baton Rouge Parish, LA. Project Manager. Responsible for traffic engineering tasks including development of permanent signing plans, traffic signal plans, interchange modification reports, and transportation management plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive historical crash and safety analysis is being performed in support of the IMR and TMP. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.
06/13– 04/14	**US 190 STAGE 0 FEASIBILITY STUDY, LADOTD:** St. Tammany, LA. Traffic Engineer. Responsible for roundabout geometric design and pedestrian and bike path design along the US 190 corridor in the City of Slidell and St. Tammany Parish to improve safety for motorized and non-motorized roadway users.
12/17 – 11/19	**CAUSEWAY BOULEVARD WIDENING TRAFFIC STUDY:** Jefferson Parish, LA. Project Manager / Traffic Engineer. Responsible for the traffic and safety study for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in Jefferson Parish, LA. Tasks included data collection, traffic volume redistribution, left-turn placement and turn bay storage length, and existing traffic analysis and future traffic analysis of a preferred alternative.

Firm employed by **Arcadis**	
Name	**Kester Hollier, PE, PTOE** *continued resume*
11/17 – 07/20	**LA 466 (5TH STREET) IMPROVEMENTS TRAFFIC STUDY, CITY OF GRETNA:** Jefferson Parish, LA. Project Manager / Traffic Engineer. Responsible for the traffic study and impacts for the proposed improvements along the LA 466 corridor between LA 23 and Richard St. in Gretna, Louisiana. Tasks included data collection along the corridor and at designated intersections, safety and crash analysis along the corridor, trip generation/land use and performing existing traffic analysis and future traffic analysis for proposed final alternative. The traffic study was prepared to follow the LADOTD Traffic Engineering Process and Report Guidelines. The project also included a stand-alone pedestrian study along the corridor at designated intersection and the design of accessible pedestrian signals at signalized intersections.
10/18 – 01/19	**LA 22 TRAFFIC CIRCULATION AND CORRIDOR ANALYSIS, NORPC:** St. Tammany Parish, LA. Traffic Engineer. Responsible for the development of three alternatives along Northshore Boulevard between I-12 and US 190 in Slidell, LA. Managed the data collection process and peak period observations to determine existing traffic patterns, as well as the safety analysis along the corridor. Developed three alternatives that used a combination of traffic signal retiming, J-turns, and roundabouts to provide better access management along Northshore Boulevard as well as improve traffic flow in the corridor for current and proposed future conditions with consideration given to proposed future developments using trip generation and land use analysis.
01/10 – 04/11 07/13 – 01/14	**STUMBERG LANE EXTENSION, CITY OF BATON ROUGE GREEN LIGHT PLAN:** East Baton Rouge Parish, LA. Traffic Engineer. Responsible for the design of new traffic signals at US 61 (Airline Highway) and LA 73 (Jefferson Highway) for the extension of Stumberg Lane in Baton Rouge, LA. Also responsible for the design and layout of the fiber optic interconnect along the proposed extension.
05/09 – 07/13	**LA 23 WIDENING (LAPALCO BLVD. – ENGINEERS RD.), LADOTD:** Jefferson and Plaquemines Parishes, LA. Traffic/Civil Engineer. Responsible for the roadway design and geometrics for the widening of LA 23 in Jefferson and Plaquemines Parishes between Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed traffic analysis for the traffic signal timing and required turn bay lengths at intersections. Developed traffic signing plans, pavement marking layouts and temporary traffic control plans.
10/10 – 7/15	**BARRIERE ROAD FEASIBILITY STUDY/TRAFFIC STUDY, US DEPARTMENT OF DEFENSE:** Plaquemines Parish, LA. Civil/Traffic Engineer. Responsible for the geometric layout and design of the realignment alternatives of Barriere Rd. between LA 23 to the US Naval Air Station. Developed and reviewed traffic analysis for arrival and departure patterns for the South US Naval Air Station entrance gates.

Firm employed by	Arcadis		
Name	Max Aguirre, PhD, PE, RSP	Years of relevant experience with this employer	3
Title	Traffic and Safety Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	Ph.D. / 2018 / Engineering Science; M.S. / 2015 / Construction Management; B.S. / 2013 / Civil Engineering		
Active registration number / state / expiration date	47579 / Louisiana / 09-30-2023 636 / USA / 08/2024		
Year registered: 2021	Discipline: Professional Engineer, Civil RSP		
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Dr. Aguirre has experience working on projects for Louisiana Department of Transportation and Development (LADOTD) pertaining to traffic and safety studies, feasibility studies, pedestrian and bicycle improvements, permanent signing design, signal design, and NEPA studies. He is also familiar with the Highway Capacity Manual, Highway Safety Manual, MUTCD, and AASHTO "Green Book". Dr. Aguirre is also knowledgeable in the application of several software programs including IHSDM, Synchro, GuidSIGN, HCS and MicroStation software. Dr. Aguirre has completed LADOTD Traffic Engineering Process and Report Training.*
11/20-Present	**I-10 CMAR TRAFFIC ENGINEERING SERVICES, LADOTD:** East Baton Rouge Parish, LA. Traffic and Safety Engineer. Assisting in traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Assisted in the development of existing condition safety analysis including tasks such as crash data analysis, collision diagrams, and crash report documentation.
08/19 – 02/20	**TRAFFIC ENGINEERING IDIQ - US 61 ACCESS MANAGEMENT AND CORRIDOR IMPROVEMENTS (AIRLINE HWY) FEASIBILITY STUDY, LADOTD:** East Baton Rouge Parish, LA. Traffic Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternatives to maximize operational and safety benefits. Evaluated the need for pedestrian and bicycle accommodations based on historical crash data and adjacent land use. Assisted in conducting traffic and safety analyses and the development of benefit-cost analysis to compare the effectiveness of the proposed alternatives.
09/19 – 06/21	**SAFETY STUDIES IDIQ - BATON ROUGE PEDESTRIAN AND BICYCLE SAFETY ACTION PLAN AND ROAD SAFETY ASSESSMENTS, LADOTD:** East Baton Rouge Parish, LA. Traffic and Safety Engineer. Assisted with the assessment of existing and future safety deficiencies related to pedestrian and bicycle modes at identified high-risk intersections and segments in East Baton Rouge Parish. Assisted with the development of screening criteria to identify high priority locations with a history of pedestrian and/or bicycle crashes. Conducted Road Safety Assessments (RSAs) at 10 priority locations to identify and evaluate safety deficiencies and develop safety countermeasures to improve safety for pedestrians and bicyclists.
10/19 – 07/21	**I-10 NEW ORLEANS TO SLIDELL HARD SHOULDER RUNNING TRAFFIC AND SAFETY FEASIBILITY STUDY, LADOTD:** Orleans Parish, LA. Traffic and Safety Engineer. Purpose of the project was to evaluate the feasibility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and congestion along critical segments of the corridor. Assisted in safety analysis and development of conceptual drawings and typical sections for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell.

Firm employed by	**Arcadis**		
Name	**Jose M. Rodriguez, RSP**	Years of relevant experience with this employer	6
Title	**Senior Safety Analyst**	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization	B.S. / 2006 / Civil Engineering; M.S. / 2014 / Civil Engineering		
Active registration number / state / expiration date	RSP #12 / USA / 05/2022		
Year registered 2019	Discipline: RSP		
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Rodriguez's experience includes safety & traffic analysis for corridor feasibility studies on major highways and interstates, as well as intersection feasibility studies including pedestrian and bicycle considerations. Mr. Rodriguez has extensive experience in crash analysis and highway safety analysis using the Highway Safety Manual, Crash Modification Factors, and Safety Performance Functions for local and nonlocal conditions. He has summarized crash and safety analysis results in dynamic web dashboards using the latest data visualization technology, including Power BI.*
02/19-11/19 **SECTION 17 PROJECT**	**H.003771.2 I-10 (LA 73, LA 74, & LA 429) INTERCHANGE FEASIBILITY STUDIES, LADOTD:** Ascension Parish, LA. Safety Analyst. Responsible for traffic safety analysis in accordance with LADOTD Traffic Engineering Process and Report Guidelines for the Interchange Modification/Justification Report. Evaluated all interchange alternatives for existing and proposed interchange locations and created and impacts analysis, matrix, and inventory of all potential environmental resources for identified alternatives.
04/16 – 06/18 **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY INTERCHANGE EA/IMR, LADOTD:** Denham Springs, Louisiana. Traffic and Safety Analyst. Responsible for methodology development and overview of traffic analyses for a high-priority project. Work involves completing an EA and providing traffic engineering services related to improving congestion and operations along Range Avenue at the I-12 interchange. Design alternatives included two split diamond interchange options with roundabout, cloverleafs, and collector distributor road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA 16); and a diverging diamond interchange alternative at Range Avenue.
08/14 – 02/17	**LADOTD, TRAFFIC ENGINEERING RETAINER - US 71 CORRIDOR TRAFFIC & SAFETY STUDY - PHASE 1:** Rapides Parish, Louisiana. Safety Analyst. Assisted in the prediction of future safety performance along the corridor. Responsible for development of conceptual design of intersection and corridor build alternatives. Specific duties included determining applicability of various intersection and corridor mitigation, ensuring design features accommodate roadway attributes, and identifying extent of ROW impacts.
02/17 – 02/18	**LADOTD, I-49 INTERCHANGE SAFETY IMPROVEMENT STUDIES:** Lafayette Parish, Louisiana. Safety Analyst. Responsible for the collection and evaluation of historical crash data, screening and selection of available safety improvement strategies that typically include alternative intersection configuration, roundabouts, corridor geometry and lane configuration, and driver awareness improvements. Safety analysis using HSM, IHSDM. Conceptual design of corridor/intersection safety improvements.
04/16 – Ongoing	**LADOTD, 1-12 HARD SHOULDER RUNNING (HSR) SAFETY STUDY - SAFETY STUDIES RETAINER:** East Baton Rouge, Livingston Parishes, Louisiana. Safety Analyst. Reviewed and summarized the current best practices and safety research information on hard shoulder running experience in the U.S. and Europe. Research included shoulder/median width and impacts to safety, desirable lengths for effective hard shoulder running, and CMFs to predict impacts to safety by reducing lane and/or shoulder widths. Produce a high-level technical memorandum that will assess various options of utilizing existing I-12 shoulders, researching the best practices, analyzing the safety and operational benefits, and determining the likely costs. Evaluated safety based on crash analysis, the HSM predictive methods and the ISATe tool for Freeways. Estimated costs and benefits of operational and safety analysis for proposed alternatives.

Firm employed by	Arcadis		
Name	Thomas Montz, PE	Years of relevant experience with this employer	9
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization	M.S. / 2011 / Civil Engineering; B.S. / 2009 / Civil Engineering		
Active registration number / state / expiration date	39128 / Louisiana / 09-30-2024		
Year registered 2014	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Montz is a Project Manager and Senior Transportation Engineer specializing in transportation planning / feasibility, modeling, safety, and design. He has over 12 years of experience leading a multitude of planning and engineering projects including Stage 0 feasibility studies, safety studies, NEPA studies, traffic signal timing and design, and transportation management during construction. He specializes in traffic analysis and operations including signal timing, signal design, ITS design, HCM analysis, and microsimulation analysis. Mr. Montz has completed LADOTD Traffic Engineering Process and Report Training.*
07/14 – 11/19 **SECTION 17 PROJECT**	**H.003771.2 I-10 (LA 73, LA 74, & LA 429) INTERCHANGE FEASIBILITY STUDIES, LADOTD:** Ascension Parish, LA. Senior Traffic Engineer. Responsible for traffic study and Vissim microsimulation modeling in accordance with LADOTD Traffic Engineering Process and Report Guidelines. Provided volume development, build alternatives, conceptual design drawings, construction cost estimates for the Interchange Modification/Justification Report. Evaluated all interchange alternatives for existing and proposed interchange locations and created and impacts analysis, matrix, and inventory of all potential environmental resources for identified alternatives.
04/16 – Ongoing **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY INTERCHANGE ALTERNATIVES AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Denham Springs, LA. Traffic Engineer. Responsible for assisting with traffic signal timing analysis tasks including volume development / projections, origin-destination study, VISSIM model development and calibration, and noise analysis. Work involves completing an Environmental Assessment and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange.
04/13 – Ongoing **SECTION 17 PROJECT**	**H.000688.2 US 11 ENVIRONMENTAL ASSESSMENT, LADOTD:** St. Tammany Parish, LA. Traffic Engineer. Responsible for crash analysis, operating speed tabulations, intersection and corridor analysis, alternative development, and noise modeling for the proposed widening of US 11 between US 190 (Gause Blvd) and I-12 in Slidell, LA. The proposed improvements include replacing a bridge crossing the Norfolk Southern Railroad. This project includes analyzing several innovative alternatives for the proposed corridor, including "superstreets" and J-turn concepts.
04/19 – 12/19	**US 90 TRAFFIC SIGNAL TIMING UPGRADES/LADOTD:** Lafayette Parish, LA. Technical Lead of project tasks involving traffic data collection and analysis, signal inventory, peak period determination and observations, warrant analysis, travel time runs, traffic signal timing analysis using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards
02/15 – 08/17	**US 71 CORRIDOR - PHASE II STAGE 0 FEASIBILITY STUDY, LADOTD:** Rapides Parish, LA. Project Manager. Responsible for the preparation of a corridor feasibility study for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included traffic data collection, signal warrant studies, traffic analysis, safety data analysis, alternative development, and public/stakeholder involvement. Completed Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists.
02/18 – 06/21	**BATON ROUGE PEDESTRIAN AND BICYCLE SAFETY ACTION PLAN AND ROAD SAFETY ASSESSMENTS LADOTD:** East Baton Rouge Parish, LA. Traffic Engineer. Responsible for assessing existing and future safety deficiencies related to pedestrian and bicycle modes at identified high-risk intersections and segments in East Baton Rouge Parish. Assisted with the development of screening criteria to identify high priority locations with a history of pedestrian and/or bicycle crashes.

Firm employed by	G.E.C., Inc.		
Name	Thomas Swanson, PE, PTOE	Years of relevant experience with this employer	16
Title	ITS Section Manager	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	B.S. / 1992 / Civil Engineering		
Active registration number / state / expiration date	30139 / Louisiana / 09-30-2024 1016 / US / 04-10-2024		
Year registered	2002 2006	Discipline	Professional Engineer, Civil Professional Traffic Operations Engineer (PTOE)
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Coordination & QA/QC**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Swanson's career began over 40 years ago when he worked as an electrician for the U.S. Navy. He later graduated in Civil Engineering and has focused much of his career on traffic, ITS, & electrical engineering projects since 1992. While in GEC's Electrical Department, Mr. Swanson has provided professional engineering services associated with Stage 0 Feasibility Studies, Stage 1 Environmental Assessments, traffic studies & traffic signal design, traffic data collection & analysis, traffic signal warrant analysis, traffic signal timing & optimization, design of isolated traffic signal intersections, development of traffic control devices plans and computerized signal system design and engineering projects. Mr. Swanson has working knowledge of LADOTD's Sign Manual, Pavement Marking Manual, Traffic Signal Manual, Traffic Engineering Process and Report, and Traffic Engineering Manual. He has completed Modules 1-3 of the Traffic Engineering Process and Report Course offered by LTRC. Mr. Swanson has completed a number of Level 1-4 Transportation Management Plans (TMP), both for ITS and lighting projects. He supports GEC's engineering group by providing traffic engineering analysis and design in support of the production of preliminary plans for the design and development of construction plans for roadway improvement projects.*
09/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Traffic Engineer* - Mr. Swanson's responsibilities included the ITS system relocation design, and construction signage and striping (Maintenance of Traffic) and permanent signage and pavement markings. Mr. Swanson completed the construction signing/striping layout as well as permanent signing/striping.
2011-2015	**LA 3152, CLEARVIEW PARKWAY CAPACITY IMPROVEMENTS: Jefferson Parish, LA.** *Traffic Engineer* - Mr. Swanson provided a study of existing alignment and recommended geometric improvements, specifically improvement of the Clearview/Airline Highway and Clearview/Mounes Ave. Intersections. Mr. Swanson performed the Stage 0 and was involved in the Transportation Management Plan.
05/14-12/15	**GNOEC, COLD MILL AND OVERLAY THE EAST AND WEST CAUSEWAY BLVD APPROACHES: Mandeville, LA.** *Traffic Engineer* - Mr. Swanson provided traffic engineering services for numerous extended-term data collection of 24-hour counts to mill and overlay the Causeway Blvd. approaches in conjunction with GEC's ongoing contract.
09/19-Present	**LASAFE AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA.** *Traffic Engineer* - Mr. Swanson performed design of ADA-compliant pedestrian crossings at Airline Highway (US 61) and Main St (LA 44) for this ongoing project. He also completed a pedestrian/traffic study for the Main Street (LA 44) corridor analyzing and observing vehicular and pedestrian traffic, to assess the need to add crosswalks.
2018	**FLEUR DE LIS BLVD IMPROVEMENTS: New Orleans, LA.** *Traffic Engineer* - Mr. Swanson performed a Highway Safety Analysis and designed the striping and signage for the roadway, which included crosswalks and roadside parking.
2013	**ESSEN LANE WIDENING, DISTRICT 61: Baton Rouge, LA.** *Traffic Engineer* - Project included widening and improvements of Essen Lane in Baton Rouge between Jefferson Highway and I-10, by adding additional lane in the southbound direction. Mr. Swanson designed modifications and enhancement of existing signals, and the development of a Transportation Management Plan.

Firm employed by	Arcadis		
Name	Akhil Chauhan, PE, PTOE, PTP, PMP	Years of relevant experience with this employer	14
Title	Principal Engineer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	M.S. / 2003 / Transportation Engineering; B.S. / 2001 / Civil Engineering		
Active registration number / state / expiration date	33703 / Louisiana / 09-30-2024 PTOE #2544 / USA / Exp. 11/2023; PTP #246 / USA / Exp. 12/2024; PMP #1444676 / PA / Exp. 08/2023		
Year registered	2008	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: **Traffic Engineering & QA/QC**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Chauhan is a principal traffic engineer with 20 years of applied research and industry experience in the fields of traffic engineering, traffic modeling and simulation, transportation planning, demand modeling/forecasting, intersection/corridor analysis, safety studies, and access management. Akhil has successfully led, managed, and mentored numerous projects and personnel related to transportation modeling, simulation, and planning for public agency clients located across the nation including several state Departments of Transportation. He is proficient in the use of many macro-, meso-, and microscopic traffic simulation software programs such as HCS, Vistro, Synchro, SIDRA, Vissim, MITSIM, Dynameq, DynaMIT, TransCAD, Visum, and OREMS. Mr. Chauhan has completed LADOTD Traffic Engineering Process and Report Training.*
04/13 – 11/19 **SECTION 17 PROJECT**	**H.003771.2 I-10 (LA 73, LA 74, & LA 429) INTERCHANGE FEASIBILITY STUDIES, LADOTD:** Ascension Parish, LA. Principal Traffic Engineer. Responsible for oversight and QA/QC of the traffic study and Vissim microsimulation modeling in accordance with LADOTD Traffic Engineering Process and Report Guidelines. Responsible for coordinating and overseeing volume development, build alternatives, conceptual design drawings, construction cost estimates for the Interchange Modification/Justification Report, evaluating all interchange alternatives, impacts analysis, matrix, and inventory of all potential environmental resources for identified alternatives.
01/14 – Present **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY TRAFFIC STUDY AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Denham Springs, LA. Principal Traffic Engineer. Responsible for oversight and QA/QC of the traffic analysis of proposed alternatives using Vissim software. Work involved completing an Environmental Assessment and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange. Developed an Interchange Modification Report including traffic study results and responses to FHWA Policy Points.
04/13 – 10/20 **SECTION 17 PROJECT**	**H.000688.2 US 11 ENVIRONMENTAL ASSESSMENT, LADOTD:** St. Tammany Parish, LA. Principal Engineer. Responsible for crash analysis, operating speed tabulations, intersection and corridor analysis, line and grade and public outreach for the proposed widening of US 11 between US 190 (Gause Boulevard) and I-12 in Slidell. Proposed improvements include the replacement of a bridge crossing the Norfolk Southern Railroad. Critically, this project includes analysis of several innovative alternatives for the proposed corridor, including "superstreets" and J-turn concepts.
07/12 – 11/14	**LADOTD, CHEF MENTEUR BRIDGE AND APPROACHES ENVIRONMENTAL ASSESSMENT:** Orleans Parish, LA. Principal Traffic Engineer. Responsible for the high-priority bridge replacement EA and Line and Grade Study, responsible for coordinating traffic impact study. Traffic Impact Study coordination included reviewing available data with DOTD traffic engineer to identify gaps and propose additional data needs, investigating planned transportation improvement projects and traffic generators with DOTD and New Orleans RPC, reviewing design hour volumes (DHVs), average daily traffic (ADTs), and peak hour, and 24-hour truck percentages, and reviewing intersection and road segment capacity analyses.
11/20 – Present	**LADOTD, I-10 CMAR:** East Baton Rouge Parish, LA. Principal Engineer. Responsible for technical advisory and QAQC of all traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.

16. Staff Experience

PERSONNEL RESUMES
Line & Grade

Firm employed by	G.E.C., Inc.		
Name	Jerome Lohmann, PE	Years of relevant experience with this employer	7
Title	Senior Project Manager	Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization	B.S. / 1984 / Civil Engineering; A.A.S / 1977 / Surveying		
Active registration number / state / expiration date	24673 / Louisiana / 09-30-2024		
Year registered 1992	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Technical Lead, Line & Grade, Roadway**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*For nearly 40 years, Mr. Lohmann has completed and/or managed preliminary plans and cost estimates for the design and development of construction plans for roadway improvement projects. He has experience with reviewing existing data, as-built plans, improvement studies, boring information, traffic data, and field reconnaissance. He also has experience designing plans in accordance with the latest Louisiana Standard Specifications for Highways and Bridges and in the current editions of DOTD's Roadway Design Procedures and Details Manual, Bridge Design Manual, Hydraulics Manual, EDSM I.1.1.11, Guidance for PRR Projects, 3R Minimum Design Guidelines and DOTD Pavement PRR Minimum Design Guidelines, and DOTD Minimum Design Guidelines. Mr. Lohmann reviews Design Reports, Design Exceptions, and Design Waivers as needed for road design projects. He has also developed Level 2 Transportation Management Plans for roadway construction projects after a stage 0 has been completed.*
11/15-Present **SECTION 17 PROJECT**	**H.003074 / I-10 WIDENING, WILLIAMS BLVD. TO VETERANS BLVD.: Jefferson Parish, LA.** *Project Manager* - GEC is currently designing the widening of I-10 between Williams Boulevard and Veterans Boulevard interchanges in Jefferson Parish. Final design plans are over 95% complete. The total project length is 2.58 miles and consists of the construction of one 12' additional lane with a 10' shoulder inside along the I-10 eastbound and westbound roadways. Mr. Lohmann provided design in the preliminary plans phase and design review of the roadway during the final plans phase. Mr. Lohmann managed the completion of 100% preliminary plans which included east and west on and off ramps to Veterans Blvd. along with the design of a **diamond interchange (WB) and partial cloverleaf interchange (EB).**
02/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Roadway Task Lead* - Mr. Lohmann is Roadway Task Lead for the GEC/Boh Bros. team. Mr. Lohmann provided the roadway construction plans for this project and was responsible for the geometric layout for the entire project, ensuring conformance to LADOTD and AASHTO standards. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr Flyover Ramp Design-Build Project. He also participated in the Level 4 TMP. During the proposal phase, Mr. Lohmann studied **several conceptual interchange layouts** before deciding on the one that provides the best outcome for both the travelling public and the surrounding neighborhoods.
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Project Manager* - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Mr. Lohmann is Project Manager, overseeing design of a six-lane, curb and gutter roadway with subsurface drainage, bridge replacement, green infrastructure and pedestrian facilities. GEC's design is in accordance with MOVEBR Design Guidelines and Consultant Services Manual. Mr. Lohmann supervised a study of the existing bridge over Dawson Creek to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM. This study started with an NBIS bridge inspection to determine Condition Ratings for the bridge superstructure, substructure, and piles. A Bridge Load Rating was then carried out based on the AASHTO Manual of Bridge Evaluation and the LADOTD BDEM. Based on the load rating, GEC recommended that the existing bridge be replaced. Includes a level 2 TMP.
12/21-Present	**SHARP ROAD: Mandeville, LA.** *Project Manager* - Mr. Lohmann is managing the preparation of preliminary and final construction plans for roadway improvements, subsurface drainage installation, and sidewalk construction. Design increases safety for this heavily trafficked roadway by improving pavement conditions and drainage, along with providing a safe place for pedestrians and bicyclists.
09/19-present	**LASAFE-AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA.** *Project Manager* - Mr. Lohmann managed the development of typical sections and preliminary layout for the project in accordance with LADOTD's Roadway Design Procedures and Details Manual, which consists of a 10' and 5' sidewalk

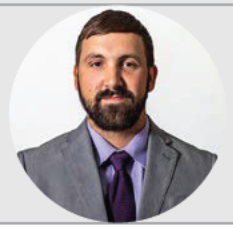
Firm employed by	G.E.C., Inc.
Name	**Jerome Lohmann, PE** *continued resume*
	along the north side of US 61 for improved accessibility & mobility and curb bump outs to reduce the crosswalk distances and eliminate parking within the vicinity of the crosswalks to improve sight distance of pedestrians at the crossings. Existing ditches will have pipes added & be reshaped to provide detention ponds to reduce time of concentration. Along Main St., design will provide parallel parking utilizing decorative brick & permeable base to reduce time of concentration. He oversaw calculation of preliminary quantities & development of preliminary estimated construction cost. He proposed the conceptual design to the Parish & received approval. He oversaw development of the fee for all costs. The project is under construction.
02/17-10/17	**H.008046 / LA 3152, CLEARVIEW OPERATIONAL IMPROVEMENTS: Jefferson Parish, LA.** *Project Manager* - This project involved the milling and overlaying of LA 3152 and new pavement marking and signage. Along with the milling and overlaying, turns lanes were being added, extended, etc.; therefore, new pavement sections were designed. Responsibilities included Scope, Fee project management and QA/QC associated with this project.
04/19-12/21	**CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA.** *Project Manager* - Mr. Lohmann was Project Manager performing a Design Study including hydraulics, environmental, and geotechnical considerations, overseeing topographic survey and right-of-way (ROW) mapping as required; and developing preliminary and final construction plans and cost estimates. The project included the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek & existing Sarasota Drive bridge over Engineers Depot Canal.
11/15-08/16	**H.011435 / US 11 IMPROVEMENTS AT SCHNEIDER CANAL: Slidell, LA.** *Project Manager* - The project elevated US 11 at the levee so that ongoing construction of the levee (in separate projects by the Parish) could continue beyond this point without a break in flood protection at the highway. The road section is a divided two-lane raised median with full-width shoulders and curb & gutter drainage to reduce the risk of road flooding and water hazards for motorists. Safety modifications include signage and striping improvements and intersection safety modifications. The highway remained on-grade on embankment and was raised approximately 10 feet at the levee. Approximately 2,300 feet of the highway was affected. GEC accomplished all aspects of design with its own in-house personnel, excluding geotechnical services. GEC completed the construction plans for this project in the summer of 2016. It incorporates an improved curbed road section including a raised median and a bike path. This project was the first project ever designed with LADOTD specifications that included a levee. Mr. Lohmann designed approximately 2,700' of divided two lane and multi-lane roadway to raise the roadway over the levee on Schneider Canal. This project included a level 2 Transportation Management Plan (TMP).
2002-2013	**LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA.** *Design Segment Manager* - For the two years Mr. Lohmann served as a Design Segment Manager (DSM), he was responsible for taking over 8 LADOTD TIMED projects at different stages of completion and coordinated all the preconstruction activities through letting, including all roadway and bridge services required to reach construction. His innovative design skills resulted in the reduction of right-of-way required for construction.
07/95-11/03	**817-09-0028 / OLD HAMMOND HIGHWAY (US 61 TO BLVD. DE PROVINCE), ROUTE LA 426 ENVIRONMENTAL ASSESSMENT: East Baton Rouge Parish, LA.** *Project Engineer* - This project consisted of an Environmental Assessment (EA) or Finding of No Significant Impact (FONSI), right-of-way acquisition, preliminary plans, final plans, and utility relocation for the widening of LA 426 to a 5-lane urban section for approximately 3.9 km (2.4 miles) and a complete topographic survey using total station and data collectors along with right-of-way maps. The Urban Roadway consisted of four travel lanes and one continuous turn lane with curb and gutter and subsurface drainage. The project also included design of several major and minor intersections. Mr. Lohmann was responsible for EA management, survey management, line and grade study, design of preliminary and final plans and management of the right of way acquisition and relocation. This project included a level 2 Transportation Management Plan (TMP). **Mr. Lohmann's innovative idea of providing the first composite utility plan for the LADOTD Old Hammond Highway was a success. He took all of the utility company's plans and created a composite utility plan to ensure all of the utilities would fit within the ROW to reduce the number of conflicts during construction. In the past, each utility company submitted their plans and moved them without verifying other utilities. We will utilize this method on this project. Our sub consultant TBS can perform SUE and provide us with even more information that we can use in the L&G study to minimize the impact and thus the cost of utility modification and relocation.**
02/02-11/05	**BURBANK DRIVE (LA 42), SEGMENT I (W. LEE DR. TO BLUEBONNET BLVD.): East Baton Rouge Parish, LA.** *Project Manager* - For 3.5 miles at Burbank Road, Mr. Lohmann designed the widening from two to 4 lanes divided urban roadway, including geometric design, drainage design, sequence of construction, and quantity calculations. (City/Parish Project No. 06-CS-HC-0008)

Firm employed by	G.E.C., Inc.		
Name	Christopher Nipper, PE	Years of relevant experience with this employer	6
Title	Road Design	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	B.S. / 2014 / Civil Engineering		
Active registration number / state / expiration date	43281 / Louisiana / 09-31-2023		
Year registered 2019	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Line & Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Nipper has 8 years of experience with civil design projects, including roadway widening and realignment, including those requiring drainage systems. In addition, he has designed projects requiring milling and overlay. He has experience performing hydraulic analyses and preparing associated hydraulics reports for bridge and roadway design projects. Prior to joining GEC, Mr. Nipper worked with LADOTD for over two years, affording him knowledge of their standards and guidelines required for roadway projects. He is also very familiar with AASHTO standards and guidelines.* ***Mr. Nipper has completed the following training: FHWA-NHI-380096 Modern Roundabouts: Intersections Designed for Safety hosted by LADOTD/LTRC and Modules 1-3 of the Traffic Engineering Process and Report Course offered by LTRC.***
04/19-Present **SECTION 17 PROJECT**	**H.003074 / I-10 WIDENING, WILLIAMS BLVD. TO VETERANS BLVD.: Jefferson Parish, LA.** *Road Design Engineer* - This project included the addition of a lane to the existing interstate and the widening/replacement of bridges to accommodate the additional lane. Mr. Nipper was responsible for the hydraulic design of the proposed bridge decks, the westbound proposed bridge vertical curve, and for calculating elevations along the bridge bents and girders. Mr. Nipper participated in the completion of 100% preliminary plans which included east and west on and off ramps to Veterans Blvd. along with the **design of a diamond interchange (WB) and partial cloverleaf interchange (EB).**
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Road Design Engineer* - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. The project includes replacement of existing bridges at Dawson Creek. Mr. Nipper assisted in preparing the drainage map depicting existing conditions for the 9,730-acre drainage area. Mr. Nipper also developed the soil map for the drainage area, computed the curve number, and associated flow through Dawson Creek. (City-Parish Project No. 19-CP-HC-0034)
09/19-Present	**LA SAFE AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA.** *Road Design Engineer* - The project involved the design of a shared use path along Airline highway that would connect to Main St. This path would accommodate pedestrians and bicyclists. The corridor utilizes landscaped bioswales to capture and slow runoff while simultaneously providing beautification of the area. Main St. was redesigned to accommodate on street parking, sidewalks were added down the entire project corridor on both sides, and bicycle lanes were added as well. Mr. Nipper provided the vertical and horizontal alignments for the project, as well as the design for Main St. He provided the hydraulic analysis needed to convert existing open ditches along the project into subsurface drainage systems to capture and slow runoff. Mr. Nipper also provided the estimated quantities and cost estimate. The project is currently under construction.
02/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Roadway Design* - This project involved the redesign of the I-10 WB/I-12 WB merger, and the College Dr. Off Ramp. The existing I-12 WB was realigned to run alongside the existing I-12 EB lanes, and the existing I-10 WB bridge over I-12 EB was raised, widened, and lengthened to provide room for the realigned I-12 WB lanes. Separate dedicated off ramps to College Dr. were provided from I-10 WB and I-12 WB. Mr. Nipper performed all of the geometric design for the project, and developed all of the roadway construction plans. He was responsible for the hydraulic analysis and design for the entire project, and developed the hydraulic calculations and report. Mr. Nipper was also responsible for calculating quantities for all of the roadway and hydraulic portions of the project. During the proposal phase, Mr. Nipper studied **several conceptual interchange layouts** before deciding on the one that provides the best outcome for both the travelling public and the surrounding neighborhoods.

Firm employed by	G.E.C., Inc.
Name	**Christopher Nipper, PE** *continued resume*
2018-Present	**GREENWOOD MULTI-USE TRAIL: East Baton Rouge Parish, LA.** *QA/QC* - This project involved the design of a multi-use path in a BREC park. Mr. Nipper was involved in the QA/QC of this project and reviewed plans and quantities. The project is currently under construction.
02/19-05/19	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *Road Design Engineer* - The project included the replacement of two (2) slab span bridges. Mr. Nipper was responsible for the vertical alignment, proposed length of the bridges, placement of the new bridges, and guardrail design. Mr. Nipper designed the new roadway approaches to the new bridge, calculated all of the quantities, and estimated construction costs for the project.
04/19-05/20	**CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA.** *Design Engineer* - Mr. Nipper provided all investigations, preliminary plans, and preparation of final construction contract plans for the replacement of the Chevelle Drive and Sarasota Drive Bridges in East Baton Rouge Parish. Mr. Nipper provided horizontal and vertical alignment and a hydraulic analysis. (City Parish Project No. 18-BR-US-0016)
2017	**LA 3152, CLEARVIEW OPERATIONAL IMPROVEMENTS: Jefferson Parish, LA.** *Designer* - This project involved the milling and overlaying of LA 3152. Along with the milling and overlaying, turn lanes were being added, extended, etc., so new pavement sections were designed. Mr. Nipper was involved in checking and correcting the plans. He checked and calculated quantities and the estimated costs associated with this project.
09/17-12/18	**CAMP COUSHATTA ROAD IMPROVEMENTS: Allen Parish, LA.** *Designer* - This project involved the design of a new road for the Coushatta Tribe of Louisiana. Mr. Nipper was the designer of the road, drainage structures/systems, and all associated quantities, and the creator of the construction plan set. The road consisted of two eleven foot lanes, with 3 foot outside aggregate shoulders, and ditches on both sides. A subsurface drainage system was designed that tied into an existing subsurface system. Two reinforced concrete box culverts were designed to facilitate the flow of local canals through the new roadway, and one of the canals was realigned. Mr. Nipper calculated the quantities and estimated costs associated with the road and drainage systems.
2016-Present	**POWER BLVD. MEDIAN IMPROVEMENTS: Kenner, LA.** *Road Design Engineer* - This project is a shared-use path beginning at W. Esplanade Avenue and ending at Vintage Drive. A 12'-wide concrete shared use path will replace an existing 6'-width path. The wider section allows for a greater level of service that comfortably accommodates bi-directional pedestrian and bicycle use. In addition to the completed concrete path, the project will feature improved pedestrian lighting, a new steel bridge for pedestrians and bicyclists, seating, landscaping, irrigation, donated art, striping, signage, and more. This project connects to the recently completed Erlanger shared use path. Mr. Nipper's responsibilities included completion of construction plans for the shared use path including QA/QC of horizontal and vertical geometry, typical sections, construction phasing, signing and striping and estimated quantities.
2018	**US 90 (FUTURE I-49 SOUTH), LA 318 INTERCHANGE, ROUTE US 90: St Mary Parish, LA.** *QA/QC* - GEC was the Owner Verification Firm (OVF) for this Design-Build Project, which includes the CE&I, right-of-way acquisition, and utility relocation. Mr. Nipper was involved in the QA/QC of the construction plans. He checked quantities, and verified that elements of the design met LADOTD standards.
2016-2017	**LA 990: 6TH-ED LEJEUNE (OVERLAY-DRAINAGE): West Baton Rouge Parish, LA.** *Designer* - This project involved the milling and overlaying of the existing road, replacing the existing subsurface drainage system to bring it up to current standards, and extending the existing subsurface drainage system. This project required the analysis of the local drainage areas. Mr. Nipper assisted in designing a subsurface drainage system using the collected data from the drainage areas. He computed quantities for the milling/overlaying and the drainage system. The drainage system was designed according to the current LADOTD standards and guidelines.

Firm employed by	**G.E.C., Inc.**		
Name	**Logan Michel, PE**	Years of relevant experience with this employer	<1
Title	**Civil Engineer**	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		B.S. / 2015 / Civil Engineering	
Active registration number / state / expiration date		43970 / Louisiana / 03-31-2024	
Year registered	2019	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Line & Grade**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Logan Michel, PE has joined GEC's Engineering group with 7 years of experience focused on road design. He was involved in developing all aspects of roadway planning for LADOTD state projects, including bridge spot replacement, roundabouts, overlay projects, and new roadway development. His expertise includes planning and design, project and construction management, and preparation and review of construction data and reports, including cost estimates, specifications, test results and schedules. He provided oversight for major projects and conducted project meetings on design modifications, work progress and safety measures.* ***Mr. Michel has completed the Traffic Engineering Analysis Process and Report Modules 1-3 training.***
08/22-Present **SECTION 17 PROJECT**	**H.013897 I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA.** *Engineer* - Mr. Michel is providing maintenance of traffic plans and other roadway design engineering tasks for this CMAR project.
08/22-Present **SECTION 17 PROJECT**	**H.003074 I-10 WIDENING: WILLIAMS TO VETERANS: Jefferson Parish, LA.** *Road Design Engineer* - Mr. Michel is providing road design and plan development for the addition of one lane to the existing interstate and the widening/replacement of bridges to accommodate the additional lane. He is reviewing GEC's final plans which are more than 90% complete in accordance with LADOTD's Roadway Design Procedures and Details Manual.
08/22-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Project Engineer* - GEC completed a line and grade study (design study), preliminary plans, and is currently 95% complete with the final design for the widening of Bluebonnet Blvd. and bridge replacements over Dawson Creek. Bluebonnet Blvd. is currently a four-lane roadway and GEC is developing plans to widen the corridor to a six-lane boulevard, curb and gutter roadway, with, green infrastructure, subsurface drainage, and pedestrian facilities, including a 10-ft. wide shared-use path on the west side and a 5-ft. wide sidewalk on the east side. GEC's design is in accordance with LADOTD and MOVEBR Design Guidelines. Mr. Michel is assisting in the development of plan documents, performing design calculations, and plan review services for the roadway, sidewalk, and subsurface drainage features for the preliminary and final plans. (City-Parish Project No. 19-CP-HC-0034)
08/22-Present	**MID-CITY RR126 GROUP C, RR127 GROUP D, AND RR128 GROUP E: New Orleans, LA.** *Project Engineer* - Mr. Michel is preparing plans, specifications, and cost estimates for the removal and replacement of existing asphalt and concrete pavement, drainage structures, waterlines, and sewer main. He is overseeing the design of the horizontal and vertical geometry, subsurface drainage design, cross section development, and he is providing project management services.
07/17-11/19	**LA 532 OVER I-20 BRIDGE REPLACEMENT: Webster Parish, LA.** *Project Engineer* - This project consisted of replacing a deficient bridge on LA 532 over Interstate 20 onto a new horizontal alignment using phase construction so traffic flow can be maintained throughout the project including all necessary widening and interchange modifications. Portions of the side roads and the ramps connecting LA 532 to I-20 had to be re-designed because LA 532's geometrics changed. Mr. Michel's responsibilities included plan production; the design of vertical and horizontal geometry; ramp and overlay design; superelevation design; urban drainage design; signage and detour layout; and cost estimation.
10/18-10/21	**H.010815.6 LA 124 EXTENSION (SEGMENT 1): Catahoula Parish, LA.** *Project Engineer* - Project consisted of constructing a private drive into a new state road (LA 124). Mr. Michel's responsibilities included plan production, designing new vertical and horizontal alignments based on design guidelines and hydraulic analysis, geometric design, drainage design for multiple culvert locations (RCB culverts & cross drains), cost analysis and estimation.

Firm employed by	Arcadis		
Name	Jose L. Rodriguez, PE	Years of relevant experience with this employer	1
Title	Senior Civil Engineer	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization	B.S. / 1992 / Civil Engineering		
Active registration number / state / expiration date	30492 / Louisiana / 03-31-2025		
Year registered 2003	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Line and Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Rodriguez has more than 25 years of experience with roles of progressive responsibility as a civil engineer performing roadway design, bridge design, project management, hydraulic analysis, utility coordination, construction supervision, estimating, and project implementation for various clients in Louisiana, Texas, Georgia, and North Carolina. Jose has worked in close relationship with the Federal Highway Administration (FHWA), U.S. Army Corps of Engineers, Louisiana Department of Transportation (LADOTD), local parish governments, and regional planning commissions. He has extensive experience with Bentley Inroads, Autodesk Civil 3d, and Leap Bridge for Concrete Bridge Design. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010 and remains active in the organization.*
05/12 – 12/15	**LADOTD, EARHART BOULEVARD-CAUSEWAY INTERCHANGE:** New Orleans, LA. Project Designer. Responsible for the geometric design and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow of traffic for the New Orleans Metro Area. It consisted of the development of roadway and bridge ramps for the creation of an elevated signal-controlled interchange. Responsible for development of all horizontal and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage design, utility conflict resolution and cost estimating for the project.
06/04 – 01/11	**LADOTD, CAUSEWAY BOULEVARD INTERCHANGE IMPROVEMENTS PHASES I AND II:** Metairie, LA. Project Designer. This project consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at-grade and elevated ramps to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders and the roadway and bridge plan preparation for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations.
4/21-4/22	**LEE DRIVE (HIGHLAND ROAD TO PERKINS) FINAL DESIGN STUDY REPORT, MOVEBR:** Baton Rouge, LA. Project Designer. Responsible for coordinating and developing line and grade conceptual alternatives and drawings to evaluate the geometric feasibility of different roadway alternatives, proposed improvements, and anticipated right-of-way needs. Provided technical guidance to help identify green infrastructure opportunities along the project. Also assisted in the implementation of Complete Street regulations for the corridor. During the alternative's selection process, conducted cost estimates to evaluate and select the preferred alternative.
02/07 – 10/09	**LADOTD, JOHN JAMES AUDUBON BRIDGE APPROACH (DESIGN-BUILD):** New Roads, LA. Project Designer. Responsible for the geometric horizontal and vertical alignment for five approach bridges to the John James Audubon Cable Stay Bridge. The longest cable-stayed bridge in the Western Hemisphere consisting of 1,583' main span. Jose was also in charge of the quality control for all bridge approaches and the design of all precast concrete girders for the project.
01/06 – 09/09	**LADOTD / NEW ORLEANS REGIONAL PLANNING COMMISSION, NEW ORLEANS SUBMERGED ROADWAY PROGRAM MANAGEMENT:** New Orleans, LA. Project Designer and Quality Control Reviewer. For this multi-million dollar program management team for the DOTD and the FHWA. Jose helped develop design guidelines and processes for the standardization of engineering work for the repair of roadways damaged by Hurricane Katrina in the City of New Orleans and other parishes. Responsible for conducting quality control reviews on roadway plans prepared by other engineering firms for compliance with DOTD and FHWA design standards.

Firm employed by	Arcadis		
Name	David Fulks, PE	Years of relevant experience with this employer	15
Title	Roadway Design Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	B.S. / 1997 / Civil Engineering; M.S. / 2020 / Engineering Management		
Active registration number / state / expiration date	30151 / Louisiana / 09-30-2024		
Year registered 2002	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Line and Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Fulks has more than 27 years of experience in the design of roadways, flood protection systems, and airports. His experience encompasses analysis and design of geometric and pavement design of highways, streets, sidewalks, restrictive intersections, roundabouts, and interchanges; site hydrology and hydraulics; and traffic impact analysis. His responsibilities have included preparing engineering designs, reports, plans, and specifications; preparing and managing project schedules and cost estimates; and providing construction administration.*
01/14 – 03/17 **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY ENVIRONMENTAL ASSESSMENT, LADOTD:** Livingston Parish, LA. Lead Roadway/Bridge Geometrics and Cost Engineer. High-priority project completing an Environmental Assessment and engineering services related to improving congestion and operations along Range Avenue in the vicinity of the I-12 interchange. Lead the line and grade study, analyzing numerous design alternatives. Design alternatives included two split diamond interchange options with roundabout, partial clover leaves, and collector-distributor road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA 16) and a diverging diamond interchange alternative at Range Avenue.
04/13 – 07/14 **SECTION 17 PROJECT**	**H.000688.2 US 11 RAILROAD BRIDGE REPLACEMENT AND CORRIDOR IMPROVEMENTS ENVIRONMENTAL ASSESSMENT, LADOTD:** St. Tammany Parish, LA. Lead Engineer. Geometry, roadway, and bridge design, line and grade study development, and cost estimates for the replacement of an historic railroad overpass bridge and upgrading an existing two-lane rural highway to a four-lane divided highway with access control.
09/09 – 03/12	**LADOTD, I-20 – KANSAS LANE/GARRETT ROAD CONNECTOR INTERCHANGE IMPROVEMENTS:** Ouachita Parish, LA. Lead Engineer. Geometry and roadway design of the new KCS Railroad overpass and connector between Kansas Lane and Garrett Road, including interstate interchange modifications to include two-lane roundabouts at ramp intersections, and three two-lane roundabouts along the corridor outside of the interchange. Improvements to the pedestrian and bicycle facilities were included in accordance with the LADOTD Complete Streets Policy. The compact project area required a detailed layout to confirm feasibility.
08/11 – 09/13	**LADOTD, CHEF MENTEUR BRIDGE AND APPROACHES REPLACEMENT ENVIRONMENTAL ASSESSMENT AND LINE AND GRADE STUDY:** Orleans Parish, LA. Lead Roadway/Bridge Geometrics and Cost Engineer. Responsible for preparing the proposed geometric configurations of a bridge replacement at Chef Menteur Pass. Developed the line and grade study, which investigated four alignments as well as both low-level moveable and high-level fixed span bridge configurations. Performed detailed geometric layouts of both the mainline highway, bridge, and adjacent collector roadways to mitigate impacts to environmentally sensitive resources and local residential, commercial, and historical interests.
09/12 – 09/13	**LADOTD, US 165 CONNECTOR AND OUACHITA RIVER BRIDGE ENVIRONMENTAL IMPACT STATEMENT:** Ouachita Parish, LA. Roadway Design Engineer. Responsible for preparing roadway and bridge general plan designs, line and grade report development, and cost estimates for a new five-mile elevated highway through Chauvin Swamp north of Monroe, LA. An in-town corridor was also developed which entailed upgrading Louisville Avenue and Hudson Lane in Monroe, the Lea Joyner Bridge over the Ouachita River, and Stella Street in West Monroe to function as a one-way couplet.
07/15 – 06/17	**LADOTD, US 190B AT JEFFERSON AVE ROUNDABOUT DESIGN:** St. Tammany Parish, LA. Roadway Engineer. Geometric and roadway design, preliminary plans preparation, and cost estimate for replacing an existing four-way signalized intersection with a single-lane elliptical roundabout.

Firm employed by	Arcadis		
Name	Garret Keller, PE	Years of relevant experience with this employer	12
Title	Roadway Design Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	B.S. / 2011 / Civil Engineering		
Active registration number / state / expiration date	40977 / Louisiana / 03-31-2025		
Year registered 2012	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Line & Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Keller is a Civil Engineer with 12 years of experience working on a wide range of roadway and structural design projects including roadway improvement design, drainage design, feasibility studies, and flood protection system projects. His responsibilities include structural detailing, structural design, civil design, geometrics, and cost estimating. He also oversees implementation of CAD systems and standards for Louisiana including MicroStation, InRoads, and CAD conform for LADOTD work.*
01/14 – 03/17 **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY TRAFFIC STUDY AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Denham Springs, LA. Roadway Engineer. High-priority project completing an environmental assessment, traffic engineering, and line and grade study related to improving congestion and operations along Range Avenue in the vicinity of the I-12 interchange. Assisted in the development of roadway geometry, line and grade, construction sequencing strategies, and construction cost estimate. Alternatives included two split diamond interchange options with roundabout, partial clover leafs, collector-distributor roads at Range Avenue and Pete's Highway (LA 16), and a diverging diamond interchange (DDI) at Range Avenue. Arcadis developed geometric design drawings for the DDI alternative including line and grade in accordance with LADOTD roadway and minimum design guidelines.
11/12 – 04/13	**LA 594 (MILLHAVEN RD.) ALTERNATIVES, I-20 ECONOMIC DEVELOPMENT CORPORATION:** Ouachita Parish, LA. Roadway Engineer. Roadway intersection and roundabout improvement alternatives for a LADOTD Stage 0 Study. Two roundabouts were evaluated in compliance with LADOTD EDSM V.1.1.5 (Analysis) and EDSM V.1.1.6 (Design). Performed geometric and roadway design of intersection and roadway alternatives and developed construction cost estimates.
07/15 – 06/17	**US 190B AT JEFFERSON AVENUE ROUNDABOUT DESIGN, LADOTD:** St. Tammany Parish, LA. Roadway Engineer. Responsible for geometric and roadway design for replacing an existing four-lane signalized intersection with a single-lane roundabout. The project also included a Context Sensitive Solutions study to optimize benefit to the adjacent real estate and community needs.
09/12 – 04/14	**US 165 CONNECTOR AND OUACHITA RIVER BRIDGE EIS, LADOTD:** Ouachita Parish LA. Roadway Engineer. Responsible for roadway design support for this project that provides needed transportation system linkage in the north Monroe region.
03/17 – 06/21	**SAFETY STUDIES IDIQ - BATON ROUGE PEDESTRIAN AND BICYCLE SAFETY ACTION PLAN AND FEASIBILITY STUDY, LADOTD:** East Baton Rouge Parish, LA. Roadway Engineer. Responsible for assisting with Road Safety Audits (RSAs) at 10 high priority intersections identified through the Baton Rouge Pedestrian and Bicycle Safety Action Plan. Evaluated safety deficiencies and identified feasible alternatives from the roadway design perspective.
08/11 – 09/13	**CHEF MENTEUR BRIDGE AND APPROACHES EA, LADOTD:** Orleans Parish, LA. Roadway Engineer. Responsible for geometric and roadway design for a high-priority bridge replacement. Key issues included minimizing impacts to Bayou Sauvage National Wildlife Refuge, Fort McComb, the existing bridge that is eligible for the NRHP, and compliance with Complete Streets Policy.

Firm employed by	Arcadis		
Name	Gabriel Arias, PE	Years of relevant experience with this employer	<1
Title	Roadway Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		B.S. / 2013 / Civil Engineering	
Active registration number / state / expiration date		42599 / Louisiana / 09-30-2023	
Year registered	2018	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Line & Grade**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Arias has more than eight years' experience performing complex geometric design on roadway including horizontal and vertical (H&V) alignment, hydraulic design cross drain pipes (CDPs) and open ditches, turn lane design, striping/signage, structural design analysis and QC, traffic management plans, and roadway plan production.*
06/16 – 02/17	**LA 435 TO LA 40/LA 41, LADOTD:** St. Tammany Parish, LA. Project Engineer. The project entailed new four-lane highway connecting I-12 to Bush, Louisiana, in St. Tammany Parish. The new roadway is approximately 19.8 miles in length and begins at LA 434, north of the existing LA 434 interchange with I-12, and traverses in a northeasterly direction until encountering an abandoned rail corridor. It then follows the rail corridor terminating at the LA 21/LA 41 intersections near Bush, Louisiana. Mr. Arias performed roadway geometric design including H&V alignment, hydraulic design for storm drains, CDP's and open ditches, structural design analysis and QC, Traffic management plans and roadway plan production for the new RA-3 roadway from LA 435 to Bush, LA.
07/13 – 02/17	**DERRICK ROAD BRIDGE, LADOTD:** Iberville Parish, LA. Project Engineer. Performed topographic field surveying, bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
07/13 – 10/16	**CITY OF THIBODAUX OVERLAY PROJECTS, LADOTD:** Lafourche Parish, LA. Project Engineer. Project required chip sealing, joint & crack sealing, resurfacing and complete pavement replacement for four separate locations in the city of Thibodaux, LA. The goal was to prolong the life of the existing pavements by preventing future deterioration and/or rehabilitating the existing pavements. Assisted with roadway geometric design including horizontal alignments, selection of treatment type for pavements, hydraulic design for storm drains, CDP's and open ditches and roadway plan production.
09/13 – 02/17	**PECAN ISLAND ROAD BRIDGE OVER THE CHENAL, LADOTD:** Pointe Coupee Parish, LA. Project Engineer. Performed topographic field surveying, bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a customized slab span, concrete structure.
07/13 – 02/17	**GRACIE LANE BRIDGE, LADOTD:** Iberville Parish, LA. Project Engineer. Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
04/14 – 02/17	**LAJAUNIE RD/LATERAL 1 BAYOU ST. LADOTD:** Clair, Lafayette Parish, LA. Project Engineer. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
11/15 – 02/17	**BABIN RD./BAYOU NARCISSE, LADOTD:** Ascension Parish, LA. Project Engineer. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.

Firm employed by	G.E.C., Inc.		
Name	Keith Rebello, PhD, PE	Years of relevant experience with this employer	24
Title	Structural Engineer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 1983 / Civil Engineering; MS / 1986 / Civil Engineering; PhD / 1990 / Civil Engineering		
Active registration number / state / expiration date	24937 / Louisiana / 03-31-2025		
Year registered 1992	Discipline	Professional Engineer, Civil	
Contract role(s) / brief description of responsibilities	Role on this Project: **Line & Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Dr. Rebello has 30 years of structural engineering experience following his research work on non-linear deformation behavior of pre-stressed concrete bridges. He has designed and managed a variety of structural projects involving complex interstate and highway bridges (new, replacement, rehabilitation and widening), retaining walls, noise walls, buildings, water and wastewater treatment facilities, hurricane protection systems & hydraulic structures. He has experience in rating of bridges in accordance with LADOTD and AASHTO MBE requirements and performed ratings using AASHTOWare Bridge Rating (Virtis) software and finite element analysis where required.*
08/05-07/13 **SECTION 17 PROJECT**	**S.P. NO. 840-43-0001, FORT BUHLOW BRIDGE: Alexandria, LA.** *Structural Engineer* - Dr. Rebello performed preliminary design of a new 0.6-mile bridge. He developed alternative designs employing pre-stressed concrete & steel girder spans & segmental concrete box girders spans. He prepared preliminary plan alternative layouts for curved steel girder ramps & bridge plans for an overpass over a railroad, using conventional precast pre-stressed concrete girders. The bridge was designed with AASHTO 72" Type BT girder spans & a 1000', 3-span steel girder unit over the channel
02/20-Present **SECTION 17 PROJECT**	**I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA.** *Bridge Task Lead* - Dr. Rebello is Bridge Task Lead for the GEC/Boh Bros. team. He has been responsible for engineering and design quality services necessary to complete design and construction. The Flyover was designed and construction plans were developed to permit a two-phase construction in order to maintain at least two lanes of traffic at all times. Dr. Rebello designed the two-span continuous (180 feet per span) steel superstructure for the flyover as well as rolled steel girder spans for widening the existing I-10 westbound bridge over Ward Creek. He has additionally designed and developed plans for Retaining Walls for the entire project and is currently working on the design of the required Sound Barriers. During the proposal phase, Dr. Rebello studied **several conceptual interchange layouts** before deciding on the one that provides the best outcome for both the travelling public and the surrounding neighborhoods.
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Bridge Design* - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Dr. Rebello performed an investigation of the existing bridge over Dawson Creek to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM. This investigation will start with an in-depth investigation of the bridge superstructure and substructure. The inspection report will provide Condition Ratings for the superstructure, substructure, and piles. The Condition Ratings will be used in the performance of a bridge load rating based on the AASHTO Manual of Bridge Evaluation and the LADOTD BDEM. Dr. Rebello's design of the new bridges will provide five lanes of traffic (three through and two turn lanes) in the southbound direction and three lanes of through traffic in the northbound direction. Pedestrian facilities will continue across the bridges and will feature barriers to separate pedestrians/ bicyclists from vehicular traffic. (City-Parish Project No. 19-CP-HC-0034)
07/12-Present **SECTION 17 PROJECT**	**H.003074 / I-10 WIDENING, WILLIAMS TO VETERANS: Jefferson Parish, LA.** *Structural Engineer* - This project includes the replacement of a 5-span 100 feet long concrete slab span bridge over Reine Canal and 5 span 100 feet long slab span bridge with 30-degree skew over French Branch Canal. Dr. Rebello is the Project Manager for this project and oversaw the structural design, plan preparation and Q.C.
04/13-Present	**LA 1 BRIDGE, LEEVILLE TO GOLDEN MEADOW: Lafourche Parish, LA.** *Structural Engineer* - Dr. Rebello serves as a Structural Engineer as part of a team involved in the design of the widening of an existing bridge and the construction of a new bridge totaling 6,500 feet in length. The variably widened portion of the bridge consists of prestressed concrete Type III girder spans. The new bridge portions will be supported on special new

Firm employed by	G.E.C., Inc.		
Name	Varaprasad Venkata, PE	Years of relevant experience with this employer	16
Title	Senior Civil / Structural Engineer	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	B.S. / 1992 / Civil Engineering; M.S. / 1995 / Structural Engineering		
Active registration number / state / expiration date	40594 / Louisiana / 09-30-2024		
Year registered 2016	Discipline: Professional Engineer, Structural		
Contract role(s) / brief description of responsibilities	Role on this Project: **Line & Grade**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Venkata has 22 years of structural engineering experience involving highway bridges, low & high mast light pole supports, highway sign supports, hurricane protection systems, water treatment and distribution facilities, and industrial structures. He has provided design services for state agencies inclusive of FHWA funding, tolling commissions, as well as non-state entities and private industry. His design experience includes AASHTO structural sign supports for highway signs, traffic signal supports, camera pole platforms and supports, DMS sign supports and main platforms, and low and high mast light pole attachments and foundations. His bridge design experience includes the widening of existing structures and new structures for highly congested interstates and major highways, which includes, but not limited to, the design of pile bents, column bents, PSC girders, concrete deck, pre-stressed Type III girder spans, and steel girders.*
02/20-Present **SECTION 17 PROJECT**	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Primary Bridge Engineer* - Mr. Venkata is the Primary Bridge Engineer for the I-10 & I-12 College Dr. Flyover Design-Build Project. He designed and supervised the design of concrete girder spans for the Flyover and concrete decks for both the Flyover and Ward Creek Bridge. Additionally, Mr. Venkata designed and supervised plan development for all Substructures, Median Barriers, and Moment Slabs on the project. Currently, he is working on developing plans for the phased replacement of deck joints on the Ward Creek Bridge, to ensure maintenance of 5 lanes of traffic on I-10 westbound. Mr. Venkata also analyzed and designed the median barriers to support structure mount low mast poles. He designed foundations for ground mount high and low mast pole support foundations and reviewed shop drawings and pole design calculations submittals. During the proposal phase, Mr. Venkata studied **several conceptual interchange layouts** before deciding on the one that provides the best outcome for both the travelling public and the surrounding neighborhoods.
07/12-Present **SECTION 17 PROJECT**	**H.003074 / I-10 WIDENING, WILLIAMS TO VETERANS: New Orleans, LA.** *Structural Engineer* - Mr. Venkata performed superstructure and substructure load rating for existing bridges and ramps for this highly congested 2.28-mile urban interstate. The extensive load rating and documentation provided to LADOTD allowed an informed decision to be made on whether to widen or replace the existing bridges at Veterans crossing. Mr. Venkata performed structural design of Pile bents, column bents, LG type PSC Girders, steel plate girders, bearing pads, deck slabs, curtain walls for new Southbound bridge, Northbound bridge and off Ramp to Veterans Blvd. in accordance with AASHTO LRFD Bridge design specifications and LADOTD BDEM. He also assisted in the development of plans and specs. Mr. Venkata worked on design and as designed rating for both bridges in accordance with AASHTO LRFD Bridge Design Specifications and LADOTD Bridge design standards. In addition, Mr. Venkata provided design of two structure-mounted trusses (overhead and cantilever) for relocated signs.
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Bridge Design* - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Mr. Venkata performed QC checks on bridge rating calculations to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM and AASHTO Manual of Bridge Evaluation. Based on the load rating, it was recommended that the existing bridge be replaced. Mr. Venkata performed the feasibility review of phased construction of the new replacement bridge, maintaining two lanes of traffic in each direction during all phases of construction. He developed a new widened bridge layout plan with 3-phases of construction. Pedestrian facilities will continue across the bridges and will feature barriers to separate pedestrians/bicyclists from vehicular traffic. (City-Parish Project No. 19-CP-HC-0034)

Firm employed by	G.E.C., Inc.		
Name	Brian Buckel, PE	Years of relevant experience with this employer	10
Title	Senior Vice President	Years of relevant experience with other employer(s)	31
Degree(s) / Years / Specialization	B.S. / 1981 / Civil Engineering		
Active registration number / state / expiration date	21816 / Louisiana / 09-30-2023		
Year registered	1985	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: **Constructibility Review**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Buckel joined GEC as Senior Vice President of Construction after 31 years of service with LADOTD, where he served as Chief Construction Engineer from 2006 to 2012, managing the Construction Section as well as policy setting of construction projects including implementation for several Alternative Delivery projects. He served as Area Engineer throughout the State of Louisiana for seven years and as District Construction Engineer for seven years, managing the seven parishes under District 02 where he led the state into Superpave, warm mix, and other significant asphalt pavement innovations. Mr. Buckel's portfolio of projects at LADOTD include the most complex construction projects in Louisiana with much of his work being performed in the high density populated and traveled Greater New Orleans area. He leads GEC's Construction Division through the most complicated projects in Louisiana, managing OV for LADOTD DB projects and CEI on DBB projects for major highway and interstate projects, urban and rural, with complex sequence of construction and constructability. He has the following certifications: ATSSA TCT/TCS, ATSSA Flagger*
05/17-11/21	**H.003014 / I-10, LA 347 TO ATCHAFALAYA FLOODWAY BRIDGE ROUTE: St Martin Parish, LA.** *Principal-in-Charge* - Mr. Buckel served as Project Engineer until October 2018 and was Principal-in-Charge of this project which included full-depth replacement of the pavement within the existing lanes, widening the westbound pavement surface, widening the LA 347 WB overpass, construction of 2 roundabouts on LA 347, and installing concrete median protection. Pavement striping, raised markers, and rumble strips will also be installed. Eastbound I-10 is striped with two 12-foot travel lanes, a 12-foot outside shoulder, and a 6-foot inside shoulder. The westbound pavement is striped for three 12-foot travel lanes, a 12-foot outside shoulder, and a 16-foot inside shoulder. A 54-inch tall concrete median barrier was installed in portions of the project corridor. Openings in the barrier are at the LA 347 interchange, the Bayou Portage bridge crossing, in forested areas of the median, and at approved median crossings.
08/17-07/18	**H.004932 / US 90 (FUTURE I-49 SOUTH), LA 318 INTERCHANGE, ROUTE US 90: St Mary Parish, LA.** *Principal-in-Charge* - GEC was the Owner Verification Firm (OVF) for this Design-Build Project which included CE&I, Right-of-Way Acquisition and Utility Relocation. As LADOTD's OVF representative, Mr. Buckel served as Principal-in-Charge. GEC provided CE&I oversight of the Contractor's QA firm for compliance with base course, embankment, asphalt paving, and Portland cement concrete paving.
2016	**007232 LAFAYETTE MPO NON STATE PAVEMENT MARKING: Lafayette Parish, LA.** *Project Engineer* - Mr. Buckel served as the PE for DOTD and City of Lafayette on this staff augmentation striping project parish wide. He oversaw the construction and contact administration of the City of Lafayette.
03/17-present	**H.003003 / I-10, LA 328 TO I-49 JCT.: Lafayette and St. Martin Parishes, LA.** *Project Engineer/Principal-in-Charge* - Mr. Buckel served as Project Engineer until October 2018 and is currently Principal-in-Charge of this project that includes full-depth replacement of the pavement within the existing lanes, widening the westbound and eastbound pavement surface, and installing concrete median protection. The project replaces the LA 328 overpass and widens the overpasses and structures on Bayou Teche, Vermillion River, Louisiana Ave, Francis Coulee, and LA 176 (Moss St). Pavement striping, raised markers, and rumble strips would also be installed.
07/19-Present	**H.011670 / I-10/LOYOLA INTERCHANGE IMPROVEMENTS: Jefferson Parish, Louisiana.** *Principal-in-Charge* - GEC, selected as the Owner Verification firm, is providing all necessary engineering & related services for Design-Build Construction Support Services for the administration of the Design-Build contract on behalf of LADOTD, along with managing the implementation of the Project's Construction Quality Assurance Program (CQAP). Mr. Buckel is providing assistance, support, and constructability review to the LADOTD Project Manager to verify requirements of the contract documents are met.

Firm employed by	G.E.C., Inc.
Name	**Brian Buckel, PE** *continued resume*
09/20-06/21	**I-10 SERVICE ROAD BRIDGE REPLACEMENT: Slidell, Louisiana.** *Construction Engineer* - This project included the replacement of a 5-span 100 feet long concrete slab span bridge over Reine Canal and 5-span 100 feet long slab span bridge with 30-degree skew over French Branch Canal. Mr. Buckel oversaw the construction engineering and inspection for this project.
05/15-09/21	**H.009479 / WEST LAROSE VERTICAL LIFT SPAN BRIDGE REHABILITATION: Larose, LA.** *Principal-in-Charge* - Mr. Buckel is providing project management and oversight for the GEC Project Engineer and inspectors for the rehabilitation of the West Larose Bridge. The project includes a new fender system construction, removal of the existing paint system and repainting, structural repairs and bolt replacement, and rehabilitation of the electrical and mechanical systems.
09/12-Present	**EAST BATON ROUGE CITY PARISH STREET AND ROAD REHABILITATION PROGRAM (DPW PROJECT NO. 15-CEST-0001): East Baton Rouge Parish, LA.** *Principal-in-Charge* - This project began in 1990 and GEC has been the prime consulting engineer, responsible for construction inspection for all City of Baton Rouge Street Improvements since 1991. In this role, GEC provides one project engineer, one senior chief inspector, and two chief inspectors. These inspectors must be certified by LADOTD in both asphalt and concrete construction. In addition, GEC provides between 5 and 6 inspectors certified by LADOTD in Asphaltic Concrete Paving, Portland Cement Concrete Paving or Embankment and Base Course construction.
06/08-07/12	**H.005361 / I-10 AND I-12 WIDENING DESIGN-BUILD PROJECTS: East Baton Rouge, LA.** *LADOTD Chief Construction Engineer* - Mr. Buckel, while serving as Chief Construction Engineer for LADOTD, was heavily involved in developing LADOTD's Design-Build specifications and worked on 3 D-B projects: I-12 Widening O'Neal Lane to the Amite River (James Construction), I-12 Widening Amite River to Denham Springs (Gilchrist Construction), and I-10 Widening Siegen to Highland Road (Boh Bros. Construction). He attended weekly and monthly meetings concerning QA and Contract Administration, along with providing administration of the D-B contracts and specifications.
2021	**COVINGTON COUNTRY CLUB SEWER REHAB: Covington, LA.** *Construction Manager* - GEC serves as the Consulting Engineer for the St. Tammany Parish Sewerage District No. 1 (District). The project was located in Covington Country Club Estates and consisted of CCTV existing sewer lines, performing CCIP lining in several lines, sewer point repairs, smoke testing, manhole rehabilitation, installation of two sewer force mains and the installation of a new sewer lift station. GEC completed the design and Mr. Buckel provided construction observation of the work.
12/14-Present	**PARTNERING FACILITATOR:** Mr. Buckel has participated in several partnering projects while with LADOTD and, since in 2014, he performs partnering as a facilitator. He has been a Partnering Facilitator on several LADOTD projects, including one with the Corps and Texas DOT. LADOTD projects included: I-12 Walker to Satsuma, LA 1 Widening Mansura-Marksville, Harrisonburg Bridge, I-49 North Segment K Phase 2, and Essen Lane Widening, and Belle Chase Bridge Replacement.
05/06-Present	**DISPUTE RESOLUTION EXPERIENCE:** While serving with LADOTD as Chief Construction Engineer, Mr. Buckel held a large number of meetings working on dispute resolution for the Department and he continues to work at dispute resolution with GEC and as a Partnering Facilitator. Mr. Buckel has taken courses in Partnering, Leadership and Resolving Conflicts. He has also provided testimony on several cases for the Department and served as an Expert Witness for MDOT as a Construction Engineer and Scheduler.
1993-1999, 2006-2012	**BIDDABILITY AND CONSTRUCTABILITY REVIEWS:** Mr. Buckel, while working at DOTD HQ from 1993-1999 as a Construction Engineer and again from 2006-2012 as Chief Construction Engineer, performed several biddability and constructability reviews. He served on several Value Engineer Committees for the Department, including projects such as I-10 Widening in Metairie from the 17th Street Canal to Causeway, I-10 Widening from Causeway to Clearview, and other projects in and around the State.

16. Staff Experience

PERSONNEL RESUMES
Environmental

Firm employed by	G.E.C., Inc.		
Name	Nicole Forsyth, EI	Years of relevant experience with this employer	6
Title	Environmental Engineer	Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization		B.S. / 2001 / Civil Engineering	
Active registration number / state / expiration date		19841 / Louisiana / 09-30-2023	
Year registered	2001	Discipline	Engineer Intern
Contract role(s) / brief description of responsibilities		Role on this Project: **Technical Lead, Environmental**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Ms. Forsyth has over 20 years of experience in managing NEPA projects for various types of projects including transportation, DOD facilities, civil works, levees and dams, and regulatory projects. Her expertise is in the overall project management, and preparation and review of NEPA documents (EISs, EAs, CEs). Her expertise also lies in multi-agency permitting, noise/air studies, and Section 10/404/408 compliance. She served as an EI in LADOTD's Environmental Section for approximately 6 years, where she managed the environmental phase of numerous transportation projects. She has completed the NHI Course NEPA & the Transportation Decision-Making Process.*
10/15-05/17 **SECTION 17 PROJECT**	**H.004987 / US 190/COLLINS BOULEVARD WIDENING (LA 25-US 190B) ENVIRONMENTAL ASSESSMENT: Covington, LA.** *NEPA Specialist* - Ms. Forsyth participated in the preparation of an Environmental Assessment (with Finding of No Significant Impact) and Line and Grade Study to widen approximately three miles of U.S. 190 in Covington. She assisted with the overall development of the EA report, technical reports, FONSI, and interagency coordination and analyses of project impacts on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and T&E species and their habitat.
10/15-05/16 **SECTION 17 PROJECT**	**H.004983 / US HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA.** *NEPA Specialist*- Ms. Forsyth prepared an EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA NEPA requirements for the widening of US Highway 11 in Slidell, LA. Her tasks included interagency coordination and analyses of project impacts on wetlands, land use and community character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, and endangered or threatened species and their habitat. Required environmental studies included, among other tasks, wetlands, threatened and endangered species, floodplains, and a Phase I ESA.
01/17-Present	**GNOEC, LAKE PONTCHARTRAIN CAUSEWAY: St Tammany and Jefferson Parishes, LA.** *NEPA Specialist* - Ms. Forsyth serves as NEPA Specialist for improvements to the Causeway. She provides regulatory stakeholder solicitation, environmental field investigations and assessments, and NEPA documentation. Several projects have been documented as Categorical Exclusions (CE) since 2011. GEC documented these CE projects in accordance with the DOTD's Environmental of Standard Practice guidance regarding Stage 0 – Feasibility and Stage 1 – Planning/Environmental processes. GEC prepared preliminary Purpose and Need Statements, assessed alternatives, and identified potential environmental constraints using DOTD's Environmental Determination Checklist. GEC prepared and conducted regulatory Solicitations of Views, prepared responses to regulatory comments/ guidance, prepared wetland/water body survey reports and prepared Coastal Use Permit applications.
08/06-03/07	**LA 1/I-10 CONNECTOR ENVIRONMENTAL ASSESSMENT (FEDERAL HIGHWAY ADMINISTRATION/LOUISIANA DEPARTMENT OF TRANSPORTATION): West Baton Rouge Parish, LA.** *Project Manager* - The LADOTD and FHWA proposed to develop a connector route between LA 1 and I-10 west of the Mississippi River in West Baton Rouge Parish. The connector would also include an additional crossing over the Intracoastal Waterway (ICWW). The EA analyzed the potential environmental impacts due to the proposed project. Ms. Forsyth managed day-to-day operations for this EA for the LADOTD and FHWA. She supervised contracted employees and reviewed all NEPA documents prepared by the contractors, co-hosted a public scoping meeting and hearing for the project, and ensured that the project was kept on time and within budget.

Firm employed by	G.E.C., Inc.
Name	**Nicole Forsyth, EI** *continued resume*
02/17-Present	**THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD): Plaquemines Parish, LA.** *Project Manager* - Ms. Forsyth serves as project manager on the GEC Team leading development of a Third-Party EIS for the MBSD Project proposed by CPRA. The EIS is being prepared under the direction of USACE, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the CWA and Section 10 of the RHA and permissions under 33 U.S.C. Section 408. The Third-Party EIS assesses the potential adverse and beneficial impacts associated with the construction and operation of the project, which involves the potential diversion of 75,000 cfs of sediment, freshwater, and nutrients from the Mississippi River to the Barataria Basin. She is managing the overall EIS process, developing the EIS report, and associated technical reports, as well as all public and stakeholder outreach. Additionally, she prepared a Phase I ESA, which was performed in accordance with the ASTM E 1527-13 and ASTM E 2247-16 standards. Services provided included reviewing Federal, state, and local environmental databases, researching historical records, interviewing pertinent persons, and performing site reconnaissance. The investigation consisted of windshield surveys, pedestrian surveys, and airboat surveys. The identification of RECs were presented in a Phase I ESA report.
04/07-02/08	**NOISE STUDY AND AIR QUALITY ANALYSIS, LA 22 ROAD WIDENING: St. Tammany Parish, LA.** *Project Manager* - LADOTD and Greater New Orleans Expressway Commission proposed to widen LA 22 in St. Tammany Parish, Louisiana. Ms. Forsyth managed and prepared the noise study and air quality analysis for this proposed project. The noise study addressed the potential noise impacts from the proposed project. Ms. Forsyth used the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM) to model the noise impacts and possible noise barriers for the proposed project. She performed a field noise survey and all related data collection for the noise analysis including site visits, traffic counts and field measurements of actual noise levels. Ms. Forsyth also performed an air quality analysis to determine the conformity of the project and addressed the Section 4(f) issues associated with this project.
2015-2016	**H.004273.5 I-49 CONNECTOR: Lafayette, LA.** *Environmental Professional* - Ms. Forsyth prepared a Phase I ESA for the I-49 Connector. The Phase I ESA was performed in accordance with the ASTM E 1527-13 standard. Federal, state, and local environmental databases were reviewed, historical records were researched, pertinent persons were interviewed, and a site reconnaissance was performed. Recognized environmental conditions were determined during assessment and were provided in a Phase I ESA report.
09/08-01/09	**SUPPLEMENTAL EIS FOR THE INNER HARBOR NAVIGATION CANAL (IHNC) LOCK REPLACEMENT PROJECT (U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT): New Orleans, LA.** *Project Technical Assistant* - This project required preparation of a supplemental EIS to describe changes in existing conditions after Hurricane Katrina and to analyze impacts from the recommended plan and alternatives on these existing conditions. Ms. Forsyth prepared the PowerPoint Presentation for the public hearing. Ms. Forsyth was also part of a team that addressed over 415 public and agency comments. The accelerated project schedule required a two-week turnaround of responses following closing of the public comment period.
2019	**LIVINGSTON PARISH AIRPORT DISTRICT (LPAD)/LIVINGSTON EXECUTIVE AIRPORT EA PUBLIC OUTREACH: Livingston, LA.** *Public Outreach Coordinator* - Ms. Forsyth assisted LPAD with conducting the public outreach in accordance with FAA for the proposed project. This included all activities associated with preparing for and conducting a Public Information Open House (PIOH) in the project area.
2019	**U.S. FOREST SERVICE SOCIA BRANCH TRAIL ENVIRONMENTAL ASSESSMENT: Grant Parish, LA.** *NEPA Specialist* - Ms. Forsyth assisted the USFS in preparing for and facilitating public scoping meeting open houses within the project area. This included preparing graphics, handouts, venue coordination, and greeting the public. She also prepared a scoping analysis that categorized and analyzed over 100 public scoping comments that were received during the public outreach period.

Firm employed by	G.E.C., Inc.		
Name	Chelsea Crawford	Years of relevant experience with this employer	3
Title	Marketing/Production Assistant	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	B.A. / 2008 / English		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **NEPA Planning/Environmental Assessment**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Ms. Crawford joined GEC in 2019 in the environmental department assists with NEPA and environmental planning projects. In this role, she has become familiar with a variety of research methods and disciplines, including engineering, land use/recreation, water resources planning, flood damage estimation and mitigation, port and facilities planning, environmental impact assessments, specifications and planning documents, and finance and management. Ms. Crawford has performed these duties for projects related to environmental impact assessment, environmental assessments, categorical exclusions, economic and port development, water resources planning, flood damage assessment, archeology, land use/recreation, and public involvement programs. Her involvement in these studies has given her in depth experience in public and stakeholder outreach and coordination, particularly for large reports requiring the extensive coordination of many types of data from several individuals. These reports range in size from small, site-specific documents of less than 50 pages to broad-scale investigations requiring over 20 volumes of narrative presentation and accompanying map and photographic appendices. She has acquired experience at all levels of NEPA studies and familiarity with methodology and terminology in a wide array of disciplines. In addition, Ms. Crawford has assisted in data collection and related research activities on several projects within the economics and environmental programs.*
2018-Present	**THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION PROJECT: Plaquemines Parish, LA.** *Coordination* - Mrs. Crawford is providing vital role in this Third Party EIS, as she is providing coordination across multiple environmental disciplines, having 7 cooperating and 10 commenting agencies, and 11 consulting tribes and has been placed on the permitting dashboard under the FAST-41 process. She has authored sections of the EIS report and coordinates all public and stakeholder outreach, including management of public comments, assignments, and responses. The Draft EIS alone recorded over 40,000 public comments. Mrs. Crawford also provides document control.
09/20-Present	**H.004100 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: Baton Rouge, LA.** *Document Control* - Ms. Crawford is providing scheduling, quality control, and document control for this CMAR project, including the development and annual updates of the Design Quality Manual, Project Management Plan, Initial Financial Plan, Project Implementation Plan and document control. Ms. Crawford is assisting with the Community Connections/ Context Sensitive Solutions process, which includes meetings with stakeholders and public outreach.
01/23-Present	**PORT OF NEW ORLEANS LOUISIANA INTERNATIONAL TERMINAL (LIT) ENVIRONMENTAL ASSESSMENT: Violet, LA.** *Coordination* - GEC is serving as the prime consultant in developing the Environmental Assessment for the new Louisiana International Terminal Port in Violet, LA on behalf of the Port of New Orleans. GEC is responsible for the overall development of the EA in order to secure necessary permits and permissions to construct the proposed LIT in St. Bernard Parish. Ms. Crawford is responsible for preparing the Land Use section of the EA, as well as organizing and updating the administrative record for this project.
02/23	**H.011358.1 US 190 (VINE STREET) RECONSTRUCTION RAISE GRANT: Opelousas, LA.** *Coordination* - GEC was the prime consultant in developing a RAISE Grant on behalf of LADOTD and the City of Opelousas for the reconstruction of US 190 (Vine Street). Ms. Crawford performed compliance review and formatting of the application.

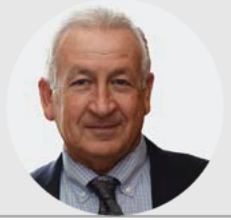
Firm employed by	Arcadis		
Name	Jan Hughes	Years of relevant experience with this employer	<1
Title	Senior NEPA Specialist	Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization	B.A. / 1984 / Anthropology		
Active registration number / state / expiration date	N/A		
Year registered N/A	Discipline N/A		
Contract role(s) / brief description of responsibilities	Role on this Project: **Subject Matter Expert, NEPA/Environmental**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Jan brings 25 years of experience with the LADOTD Environmental Section overseeing the National Environmental Policy Act (NEPA) process for proposed transportation projects, as well as preparing NEPA, Section 106 of the National Historic Preservation Act, and Section 4(f) of the U.S. DOT Act documentation for FHWA and U.S. Coast Guard. She has taken NHI Course No. 142055, NEPA and Transportation Decision Making. Jan has primary responsibility for authoring NEPA documents, including the Airline Highway Environmental Assessment for FHWA for which a FONSI was issued, and the Oaklawn Bridge Categorical Exclusion Reevaluation approved by FHWA. In addition to the projects listed below, throughout her career Jan has provided oversight for numerous staff and consultant prepared NEPA documents for LADOTD and local entities. She has also coordinated with federal, state, and local agencies on other environmental issues. She has conducted public involvement activities, including meetings and hearings. Jan was a project team member in the development of the 2015 Louisiana Historic Bridge Inventory and Section 106 Programmatic Agreement for Treatment of Louisiana Historic Bridges.*
10/22 – 05/23 **SECTION 17 PROJECT**	**H.002397.2 LA 16 (PETE'S HIGHWAY)/I-12 INTERCHANGE, ROUTE LA 16, ENVIRONMENTAL ASSESSMENT, LADOTD:** Livingston Parish, LA. NEPA/Environmental. Providing NEPA expertise in coordination with LADOTD to revise the Environmental Assessment to incorporate the rewritten construction phasing section of the document.
11/22 – present **SECTION 17 PROJECT**	**H.000688.2 US 11 ENVIRONMENTAL ASSESSMENT/FONSI, LADOTD:** St. Tammany Parish, LA. NEPA/Environmental SME. Providing environmental and NEPA support in coordination with LADOTD regarding the reevaluation of the Environmental Assessment and FONSI.
4/23 – 4/23	**AIRLINE HIGHWAY NORTH (FLORIDA BLVD TO I-110), ROUTE US 61, CITY OF BATON ROUGE AND EAST BATON ROUGE PARISH:** East Baton Rouge Parish, LA. Environmental Lead. Preparing the Stage 0 Feasibility Study and environmental checklists to determine the feasibility of the project. Assisted with preparation of the Stage 0 checklist.
10/22 – 05/23	**RURAL BRIDGES INITIATIVE II, DISTRICTS 02, 03, 07, 61, AND 62, LADOTD:** NEPA/Environmental SME. Reviewed and provided comments on draft Programmatic Categorical Exclusion documents for multiple projects.
02/94 - 08/98	**AIRLINE HIGHWAY (US 61), FLORIDA BOULEVARD TO JUST NORTH OF JEFFERSON HWY., ENVIRONMENTAL ASSESSMENT/FONSI, LADOTD:** East Baton Rouge Parish, LA. LADOTD NEPA Lead. Widening of this approximately 3.5-mile portion of Airline Highway from four lanes to six lanes. Responsible for handling the NEPA process and primary responsibility for authoring the Environmental Assessment with Programmatic 4(f) Statement for an adjacent park for FHWA for which a FONSI was issued.
01/11 – 05/15	**BAYOU TECHE BRIDGE AT OAKLAWN, ROUTE LA 323, CATEGORICAL EXCLUSION RE-EVALUATION, LADOTD:** St. Mary Parish, LA. LADOTD NEPA Lead. Replacement of this historic, one lane, swing span bridge built in 1942 with a two-lane bridge on existing alignment. Responsible for handling the NEPA process and primary responsibility for authoring the NEPA document approved by FHWA. Also handled the Section 106 Consulting Parties process, preparation of the Section 106 Memorandum of Agreement and Programmatic Section 4(f) Statement for adverse impact to the bridge, and the historic bridge marketing and draft agreement for LADOTD's first ownership transfer of a historic bridge to another entity for alternate use.
01/15 - 12/01	**INNER LOOP EXTENSION (LA 3132), ELLERBE ROAD TO FLOURNOY LUCAS ROAD, ENVIRONMENTAL ASSESSMENT/FONSI, LADOTD AND CITY OF SHREVEPORT, LA:** Caddo Parish. LADOTD NEPA Lead. Extension of the Inner Loop on new alignment as a four-lane control of access facility with interchanges and upgrade of adjacent roadways. Responsible for oversight of the NEPA process and consultant preparation of the Environmental Assessment for FHWA for which a FONSI was issued.

Firm employed by	Arcadis		
Name	Jason Morrell, PWS	Years of relevant experience with this employer	10
Title	Principal NEPA Planner	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		B.S. / 1999 / Agriculture	
Active registration number / state / expiration date		2319 / USA / 04/2028	
Year registered	2013	Discipline	Professional Wetland Scientist
Contract role(s) / brief description of responsibilities		Role on this Project: **NEPA Planning / Environmental Assessments**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Morrell has over 20 years of experience in environmental planning and ecology in the southeastern U.S. Prior to joining Arcadis, he served as a NEPA Planner and Ecologist with the Georgia Department of Transportation (GDOT) evaluating environmental effects and completing permitting and environmental documentation for transportation projects. His area of expertise includes wetland studies, biological assessment, and environmental permitting, with a focus on Clean Water Act Section 404 permitting and Section 7 Endangered Species Act (ESA) consultation. He is experienced working with the Federal Highway Administration (FHWA), US Army Corps of Engineers (USACE), US Fish & Wildlife Service (USFWS), and state resource agencies. Since 2011, Mr. Morrell has worked almost exclusively on transportation projects and is an active member of the Transportation Research Board Committee on Environmental Analysis and Ecology (AEP70). He has completed TEPR Modules 1-3 Training and the NHI Course No. 142005, NEPA and the Transportation Decision making Process.*
04/16 – Ongoing **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY INTERCHANGE ALTERNATIVE AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Livingston Parish, LA. Ecology Lead for wetland delineation and protected species habitat assessment along Range Road in the vicinity of the I-12 interchange for the proposed interchange improvement project. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, in support of the NEPA Environmental Assessment.
04/13 – Ongoing **SECTION 17 PROJECT**	**H.000688.2 US 11 ENVIRONMENTAL ASSESSMENT, LADOTD:** St. Tammany Parish, LA. LADOTD contracted Arcadis and its sub-consultants to prepare an Environmental Assessment for the replacement of an historic railroad overpass and the upgrade of the existing undivided highway to a four-lane superstreet in Slidell, LA. The project goal was to promote mobility and safety along the corridor. Jason lead technical studies to support the Environmental Assessment including wetlands and biological resource identification, Phase I Environmental Site Assessment, traffic noise and air quality analysis, socio-economic and community impact evaluation, and secondary and cumulative effects analysis. The results of technical studies and public involvement were summarized in the Environmental Assessment to support a Finding of No Significant Impacts (FONSI). FHWA approved the Finding of No Significant Impacts (FONSI) for the project in August 2022 and Arcadis is working with DOTD to prepare the Final EA and re-evaluation for FHWA approval.
02/17 – Ongoing	**I-49 SOUTH (RICOHOC TO BERWICK) SEIS, LADOTD:** St. Mary Parish, LA. Project Manager and Ecology Lead for a Supplemental Environmental Impact Statement for the conversion of a 10-mile segment of US 90 to I-49 from Ricohoc to Berwick in St. Mary Parish. Responsibilities include scope and labor hour negotiations during initial project setup, as well as managing the schedule and budget for multiple phases of project delivery including the traffic, line and grade, and environmental studies.
04/21 – Ongoing	**RURAL BRIDGE REPLACEMENT INITIATIVE PHASE II – DISTRICTS 02, 03, 07, 61, AND 62, LADOTD:** Multiple Parishes, LA. Project Manager and Environmental Lead for 16 state projects involving replacement of 29 state highway bridges. The environmental scope of services for the projects consists of Solicitation of Views, Wetland Studies, Programmatic Categorical Exclusion Checklists, and permitting including USACE Nationwide Permits (NWPs) and Louisiana Department of Natural Resources Coastal Use permits.
10/15 – 04/18	**NORTH BAYOU BLACK DRIVE/HANSON CANAL BRIDGE (OSBP) – LADOTD:** Terrebonne Parish, LA. Ecologist. Completed a technical review of the Biological Resources and Wetland Findings Report, including required exhibits, prepared for replacement of an off-system highway bridge. Findings from the wetland delineation report were used for a USACE Jurisdictional Determination and Section 404 permit application.

Firm employed by	G.E.C., Inc.		
Name	Shelton Perry	Years of relevant experience with this employer	35
Title	Vice President/Senior Water Resources Economist	Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization	B.S. / 1971 / Economics		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Environmental Justice / Socioeconomics**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Perry has over 44 years of experience in the application of the Economic Principles toward the feasibility and impact study of water resources issues. Mr. Perry serves as an overall project manager on many of the large regional navigation, water supply, natural resources and economic impact studies conducted for the State of Louisiana, Corps of Engineers, EPA, and Navigation districts. He is also an experienced economist and has directed economic impact and market feasibility studies for a variety of projects. Mr. Perry has completed the Corps of Engineers' Planner Orientation Course. He also has extensive experience in quantification of the economic value of natural resources such as water supply and recreation outdoor opportunities.*
2017-2021	**THIRD PARTY EIS FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD): Plaquemines Parish, LA.** *Economist/Socioeconomic Specialist* - The Mid-Barataria Sediment Diversion will be the first major controlled sediment diversion reconnecting the Mississippi River with its delta. It is a cornerstone of Louisiana's Coast Master Plan and will provide sediment, water, and nutrients to the Barataria Basin in order to build land and to maintain and sustain wetlands. Mr. Perry serves as an Economist/Socioeconomic Specialist for the development of the Environmental Impact Statement (EIS).
04/19	**HOUMA NAVIGATION CANAL (HNC) DEEPENING FEASIBILITY AND EIS: Houma, LA.** *Economist/Socioeconomic Specialist* - The Houma Navigational Canal (HNC) is a 41-mile navigational channel that begins at the Gulf Intracoastal Waterway (GIWW) and extends to the Gulf of Mexico. The feasibility study and Environmental Impact Statement (EIS) will determine if improvements to deepen the HNC are economically justified. As Project Economist, Mr. Perry is responsible for the development of NED benefits for the deepening of the HNC. In this capacity, he coordinates with offshore fabrication interests, shipping interests, and area ports to identify navigation issues of the existing channel and to identify the design depth for the channel. The importance of this project from a socioeconomic perspective is that it serves as a vital employment center for the local population.
2016-2018	**BLUESTONE DAM SAFETY MODIFICATION SDEIS (USACE, HUNTINGTON DISTRICT): Hinton, WV.** *Project Economist* - Bluestone Dam is important infrastructure in West Virginia because it reduces flood hazards to the entire New River and Kanawha River valleys, all the way through Charleston and to Point Pleasant, and beyond, along the Ohio River. To reduce the risk of dam failure, the U.S. Army Corps of Engineers, Huntington District, is proposing additional significant investments that could take approximately 10 years to implement. The supplemental Draft Environmental Impact Statement (SDEIS) will supplement the 1998 Final Environmental Impact Statement, which was prepared to address modifications needed to safely pass extreme flood events. As Project Economist, Mr. Perry analyzed recreation and other social effects attributable to the project.
2014	**COMITE DIVERSION PROJECT ENVIRONMENTAL ASSESSMENT (USACE): New Orleans, LA.** *Economist* - As Economist, Mr. Perry assisted U.S. Army Corps of Engineer, New Orleans District, senior management accelerate the completion of the project's Environmental Assessment in 2014. In addition, Mr. Perry completed the socioeconomic assessment required for the document to assess mitigation effort impacts.
12/09	**PREPARATION OF MAIN REPORT AND TECHNICAL APPENDICES FOR ALEXANDRIA TO THE GULF OF MEXICO FEASIBILITY STUDY:** GEC was tasked to prepare an Integrated Feasibility Report/EIS for the Alexandria to the Gulf of Mexico Feasibility Study. GEC's responsibilities included preparation of the Plan Formulation Appendix, the Operating Plan Appendix, and the Hydrology and Hydraulics section of the Engineering Appendix. GEC was also responsible for assuring that the Technical Appendices prepared by others were consistent in style and format with each other and the Main Report prepared by GEC.

Firm employed by	**G.E.C., Inc.**		
Name	**Kevin Horn**	Years of relevant experience with this employer	20
Title	Senior Economist	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization	B.S. / 1969 / Transportation and Accounting; M.B.A. / 1971 / Transportation and Physical Distribution; Ph.D. / 1975 / Logistics and Marketing, Minor in Economics		
Active registration number / state / expiration date	N/A		
Year registered N/A	Discipline N/A		
Contract role(s) / brief description of responsibilities	Role on this Project: **Environmental Justice / Socioeconomics**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
46 years of experience	*Dr. Horn has over 40 years' experience in transportation planning, research, and analysis. He is a specialist in transportation and freight distribution systems, with a primary focus on transportation logistics and inter-modal interface. His experience includes logistics analysis, simulation modeling, cargo forecasting, evaluation of vessel fleet trends, facility congestion impact studies, and multi-modal analysis for river basins, seaports, and overseas harbors. He has taught transportation economics and logistics at two universities and published over 40 articles on transportation and logistics. Dr. Horn has worked extensively in transportation with the U.S. Army Corps of Engineers as a self-employed consultant and subcontractor such as with G.E.C., Inc. (prior to 2003). As a consultant to the Corps, he has conducted studies on the impacts of lock congestion on barge shippers. The studies required extensive field research and in-depth shipper interviews. Dr. Horn also has extensive experience in the rail and trucking industries. He has worked as a train operations supervisor and cost analyst for a large Class I railroad. At the Association of American Railroads, he directed field research on interstate trucking and waterway cost models. While employed at the Interstate Commerce Commission, Dr. Horn performed financial analysis of railroads and monitored the policy impacts of rail costing systems and mergers.*
2009-2010	**CALCASIEU RIVER DREDGED MATERIAL MANAGEMENT PLAN: Calcasieu River, LA.** *Economist* - Dr. Horn developed economic NED benefits for maintenance dredging of the Calcasieu River between mouth and Port of Lake Charles and associated facilities.
2013	**VESSEL TRAFFIC FORECAST FOR THE GIWW AS IT RELATES TO THE CALCASIEU LOCK, U.S. ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT: Calcasieu Lock, LA.** *Economist* - A very long term commodity and vessel forecast for the Gulf Intracoastal Waterway (GIWW) and the Calcasieu Lock was prepared. Because the major categories of barge traffic through the GIWW system including the Calcasieu Lock are energy related (crude oil, refined petroleum products and chemicals) specialized long term energy production and consumption forecasts were extrapolated from the US Department of Energy (DOE). The DOE forecasts extending to year 2035 were extrapolated for the full time frame of with-project conditions extending out to 2072. The result is a forecast of commodity tons and vessels expected to use the GIWW system and Calcasieu Lock.
2011	**JACKSONVILLE HARBOR MILE POINT GENERAL REEVALUATION REPORT (GRR2) NAVIGATION STUDY, ECONOMICS BENEFITS EVALUATION AND ECONOMICS APPENDIX, U.S. ARMY CORPS OF ENGINEERS JACKSONVILLE DISTRICT: Jacksonville, FL.** *Economist* - Analyzed historical vessel calls, relevant hinterland, commodity types and volume, vessel fleet composition and cost, alternative movement costs, commodity and vessel forecasts, without- and with-project scenarios, and calculated NED transportation cost savings. The benefits were calculated over a 50-year project life of the project.
08/07-10/07	**HOUMA NAVIGATION CANAL AND COMMERCIAL CANAL (PORT OF IBERIA) TRAFFIC STUDY: Port of Iberia.** *Economist* - Dr. Horn developed a complete inventory of the number and types of vessels transiting the waterway including those not customarily reported to Waterborne Commerce to have a total vessel count for subsequent bank erosion estimates.
2009-2010	**HOUMA NAVIGATION CANAL ECONOMIC FEASIBILITY OF DEEPENING: Houma Navigation Canal, LA.** *Economist* - Dr. Horn developed NED deepening benefits for lightly used industrial waterway for off shore oil and gas industry vessels currently draft impaired by existing without-project conditions. This project required interviews with over 40 shippers, users and service providers to develop a range of benefits from diversion of vessels from longer trips to reduced tug escorts, etc.

Firm employed by	G.E.C., Inc.		
Name	Richard "Barry" McCoy	Years of relevant experience with this employer	31
Title	Biologist	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	B.S. / 1989 / Wildlife Conservation		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Wetlands / Biological Resources**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. McCoy has experience within the environmental resources field including wildlife hazard assessments, wetland delineations, threatened and endangered species surveys, Habitat Evaluation Procedures (HEP), preparation of numerous NEPA documents, environmental phase I site assessments (Phase I ESAs), and hazardous, toxic, and radioactive waste investigations. He has participated in a Basic Wetland Delineation class conducted by the Wetland Training Institute and a Wetland Plant Identification Workshop conducted by the Wetland Biogeochemistry Institute of Louisiana State University. He has also attended the Wetland Delineation Preparatory course for the Wetland Delineator Certification Program provided through the Wetland Training Institute. Other classes include a Habitat Evaluation Procedures Course, and a 40-Hour Waste Site Operations Course along with annual refresher courses.*
01/02-12/10	**LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA.** *Lead Field Biologist* - Mr. McCoy was responsible for the completion of wetland delineations; threatened and endangered species surveys; and the required permit applications necessary for construction of approximately 250 miles of proposed highway right-of-way required for the highway expansion. He was responsible for preparing findings reports and submitting to the appropriate state and federal agencies for review and concurrence. Additionally, he assisted with Phase I Site Assessments (ESAs) within the right-of-way and Asbestos Inspections of structures impacted by the proposed construction.
01/14-05/17 **SECTION 17 PROJECT**	**H.004987 US 190/COLLINS BOULEVARD WIDENING (LA 25 TO US 190B) ENVIRONMENTAL ASSESSMENT: Covington, LA.** *Wetland Scientist* - Mr. McCoy was responsible for conducting a wetland delineation, preparing a wetland report, and performing T&E species analysis for this FHWA LADOTD Environmental Assessment Project.
01/14-05/16 **SECTION 17 PROJECT**	**H.004983 U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA.** *Wetland Specialist*- Mr. McCoy served as a wetland specialist for this EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA LADOTD NEPA requirements for the widening of US Highway 11 in Slidell, LA. He analyzed impacts to wetlands, threatened and endangered species, floodplains, and performed a Phase I ESA. He presented his findings in technical reports to supplement the final Environmental Assessment.
09/95-06/13 **SECTION 17 PROJECT**	**US 71/165 FORT BUHLOW BRIDGE AND APPROACHES: Alexandria, LA.** *Wetland Specialist* - Mr. McCoy conducted wetlands delineation, produced a wetlands findings report, developed mitigation measures, and prepared all permit drawings and applications including for USACE, The Red River Waterway Commission, USCG, and railroads. He also assisted with the scenic rivers class B application, floral and faunal communities, threatened and endangered species surveys, Phase 1 ESA and coordination, archaeological and historical resources including 4(f) properties, and all other environmental resources.
04/19-12/21	**CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA.** *Wetland Scientist* - Mr. McCoy was responsible for conducting a wetland delineation, preparing a wetland report, and requesting a Preliminary Jurisdictional Determination from the New Orleans District, USACE for both of the bridge replacements. Mr. McCoy also assisted in preparing the necessary USACE permit applications for projected impacts to wetlands and other waters within the project area.
11/18-02/21	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *Wetland Scientist* - Mr. McCoy was the lead Wetland Scientist responsible for the wetland delineation within the proposed project area. Mr. McCoy oversaw the field efforts associated with the project and the preparation of the wetland delineation report. Mr. McCoy coordinated with the New Orleans District, USACE to request a Preliminary Jurisdictional Determination and assisted in preparing the joint permit application for Louisiana DNR, Coastal Use Permit and the USACE Wetland Permit.

Firm employed by	G.E.C., Inc.
Name	**Richard "Barry" McCoy** *continued resume*
02/07-04/09	**HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA.** *Wetland Scientist* - For this Green Light Plan project, GEC designed additional lanes and a raised median for Highland Road from Perkins Road to Airline Highway. Mr. McCoy conducted a wetland delineation in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. The results of the delineation were compiled in a formal report and submitted to the New Orleans District, Corps of Engineers for an approved Jurisdictional Determination.
12/16-12/19	**CLEVELAND STREET BRIDGE REPLACEMENT: Covington, Louisiana.** *Biologist* - Mr. McCoy was responsible for conducting a wetland delineation at the project site and obtaining a JD from the USACE. He utilized this information to apply for a Section 10/404 Corps permit as well as a LDWF, Natural and Scenic Rivers System permit.
09/19-Present	**LA SAFE-AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA.** *Wetland Scientist* - Mr. McCoy conducted the field surveys for a wetland delineation within the project footprint, prepared a wetland delineation report that was submitted to the New Orleans Corps of Engineers to request a Preliminary JD. Mr. McCoy also prepared and submitted a Section 404 Wetland permit application, the Louisiana DNR Coastal Use permit application, and requested a Letter of No Objection from the Pontchartrain Levee Board for activities proposed within 1500-ft. of the Mississippi River Main Line Levee. He coordinated with all agencies through the completion of each permit.
10/14-02/16	**BATON ROUGE LAKES MASTER PLAN: Baton Rouge, LA.** *Lead Biologist* - Mr. McCoy was involved in several tasks for the Baton Rouge Lakes Master Plan. He was one of several scientists responsible for collecting sediment core samples from the lakes at specific locations to characterize the sediment material to be dredged and to analyze it for contaminants. He was the lead biologist for a task to identify and map all mature trees within a specific distance from the banks of the lakes. He also participated in a water quality analysis effort, responsible for collecting water quality data and occasional water samples at specified locations throughout the lakes on a weekly basis over a six-week period. During the sampling efforts, Mr. McCoy and other environmental scientists shared responsibilities for operating the boat, navigating to the sample points utilizing a GPS Unit, collecting the required water quality data utilizing a YSI ProPlus Quatro meter, and collecting water samples for analysis of specific parameters. Data gathered during all of these tasks have been utilized in the development of the master plan to improve the ecosystem function and recreational opportunities.
06/16-Present	**GREENWOOD PARK MULTI-USE TRAIL PHASE II: Baton Rouge, LA.** *Senior Wetland Scientist* - Mr. McCoy was the senior wetland scientist responsible for conducting the fieldwork associated with a wetland delineation along the proposed route for the trail and for preparing the wetland delineation report to be submitted to the USACE, New Orleans District for a jurisdictional determination. The project is currently under construction.
2010-2016	**AMITE RIVER DIVERSION CANAL MODIFICATION EIS: Ascension and Livingston Parish, LA.** *Senior Scientist* - The project included plan formulation, ecosystem designs, an Environmental Impact Statement, a USFWS Coordination Act Report, a complete depiction of all public coordination and a cost and schedule risk analysis. The project included the proposed restoration of 3,000 acres of freshwater swamp habitat within the Western Maurepas Swamp. Mr. McCoy led the efforts to complete all applicable permits and environmental field tasks including habitat assessments in support of the EIS, biological assessment, coastal zone consistency determination, 404(b)(1) permit application, and the USFWS Coordination Act Report.

Firm employed by	G.E.C., Inc.		
Name	Jason Avant	Years of relevant experience with this employer	15
Title	Environmental Scientist	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	B.S. / 2004 / Natural Sciences		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Wetlands / Biological Resources**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Avant is an environmental scientist and lead botanist at GEC. He has 15 years of experience in coastal plant communities and has performed numerous wetland delineations, vegetation and habitat surveys, and threatened and endangered species surveys in support of permit applications and NEPA documentation. Mr. Avant's responsibilities also include identification and determination of wetlands and the preparation of reports, client letters, and nationwide general permits. Mr. Avant is also a certified construction inspector with daily tasks including, but not limited to, review of contractor daily work logs, daily inspection reports, production of daily progress reports, and interpretation and enforcement of bid documents and contract provisions. Mr. Avant has also completed training in the following areas: HAZWOPER 40-hr training and certification, Basic Wetland Delineator Training 404-10 RAPANOS Workshop, Soil and Water Science Short Course, Hydric Soils, Atlantic and Gulf Coastal Plain Regional Supplemental Workshop, Certified Lead Inspector, and Unified Wetland Mitigation Assessment.*
01/14-05/17 **SECTION 17 PROJECT**	**H.004987 US 190/COLLINS BOULEVARD WIDENING (LA 25 TO US 190B): Covington, LA.** *Biologist* - Mr. Avant participated in the preparation of an EA (with FONSI) and the Line and Grade Study to widen approximately three miles of U.S. 190 in Covington, a project which included the construction of new bridges across the Bogue Falaya River. Notably, the project proposed the elimination of all signalized intersections within the project corridor and replacement with roundabouts. Mr. Avant performed wetlands delineation and biological assessments and addressed mitigation and permitting.
01/14-05/16 **SECTION 17 PROJECT**	**H.004983 US HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE): Slidell, LA.** *Biologist* - Mr. Avant participated in an EA for the New Orleans Regional Planning Commission (NORPC) in compliance with FHWA NEPA requirements for the widening of US Highway 11 in Slidell, LA. He participated in wetlands delineation, threatened and endangered species analysis, floodplains, and the Phase I ESA.
2002-2012	**700-99-0266 LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM MANAGEMENT: Statewide, LA.** *Environmental Technician/Field Biologist* - Mr. Avant was a Field Biologist responsible for the completion of wetland delineations; threatened and endangered species surveys; and the required permit applications necessary for construction of approximately 250 miles of proposed highway right-of-way required for the highway expansion. He was responsible for preparing findings reports and submitting these reports to the appropriate state and federal agencies for review and concurrence. Also he assisted other Environmental Scientists with Phase I Site Assessments within the right-of-way and Asbestos Inspections of structures impacted by the proposed construction
02/07-04/09	**HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA.** *Biologist* - For this Green Light Plan project, GEC designed additional lanes and a raised median for Highland Road from Perkins Road to Airline Highway. Mr. Avant conducted a wetland delineation in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. The results of the delineation were compiled in a formal report and submitted to the New Orleans District, Corps of Engineers for an approved Jurisdictional Determination.
11/18-02/21	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *Biologist* - Mr. Avant participated in the wetland delineation within the proposed project area. He provided field efforts associated with the project and the preparation of the wetland delineation report.
04/07-Present	**GNOEC, LAKE PONTCHARTRAIN CAUSEWAY: St.** *Tammany & Jefferson Parishes, LA. Biologist* - Mr. Avant serves as Biologist for improvements to the Causeway. GEC prepares & conducts regulatory Solicitations of Views, prepares responses to regulatory comments/guidance, conducts wetland delineations, prepares wetland/water body survey reports & prepares Coastal Use Permit applications.

Firm employed by	G.E.C., Inc.		
Name	Will Grant	Years of relevant experience with this employer	19
Title	Environmental Scientist	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization	B.S. / 1994 / Biology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Wetlands / Biological Resources, Phase I ESAs**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Grant has over 26 years experience in the environmental field conducting research, regulatory compliance and enforcement, planning, coordination, and consulting services on federal and state regulatory compliance issues for numerous governmental and private clients. Mr. Grant has successfully worked with the Louisiana Department of Agriculture and Forestry (LDAF), the Louisiana Department of Natural Resources (LDNR), and the Louisiana Department of Environmental Quality (LDEQ) on hazardous material sites for several clients. Mr. Grant has experience conducting site investigations in accordance with LDEQ's Risk Evaluation/Corrective Action Program (RECAP) and Underground Storage Tank Closure/Change-In Service Guidance Document requirements. Mr. Grant is a certified pesticide research and demonstration investigator and holds 40-hour HAZWOPER certification. Mr. Grant has performed* ***over 200 environmental site assessments*** *in accordance with American Society for Testing and Materials (ASTM) Standard E 1527-00, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process in order to identify recognized environmental condition (REC) sites, including active and inactive UST sites, within and adjacent to right-of-way (ROW) required for highway project construction. Investigations have included research of historical photography, federal, state and local environmental databases, fire insurance maps, field reconnaissance, and interviews with regulatory agency officials and others knowledgeable of the project areas. Mr. Grant has also completed training in the following areas: HAZWOPER 40-hr training and certification, USACE Wetland Delineation Certification, ASTM Phase I & II ESA courses, certified asbestos inspector.*
06/02-06/12	**LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Louisiana.** *Environmental Scientist*- Mr. Grant functioned as biologist and field team leader for wetland delineation and threatened and endangered species surveys and permitting for the construction of 250 miles, consisting of 37 project segments, of four-lane highway throughout Louisiana. Total project encompassed over 10,000 acres of wetland and endangered species surveys. Subsequent responsibilities included assistance with periodic surveys and habitat assessment updates. Additionally, Mr. Grant conducted multiple **Phase I Environmental Site Assessments as well as Phase II Environmental Site Assessments**. He prepared a Phase I Environmental Site Assessment Report according to ASTM E1527-00 and a Phase II Report in accordance with ASTM E1903-97 for each of 48 and 150 highway segments, respectively noting recognized environmental conditions within each segment and developing further investigation plans for numerous other sites.
08/10-05/15	**H.010440 GNOEC, NORTH TOLL PLAZA WIDENING: Mandeville, LA.** *Environmental Scientist* - Mr. Grant completed a wetland delineation and permitting of proposed right-of-way expansion and addition of additional toll lanes at the North Shore Toll Plaza, Mandeville, Louisiana. He was responsible for surveying and permitting area for the proposed roadway expansion and installation of a retaining wall adjacent to Lake Pontchartrain. He conducted asbestos inspection of all GNOEC facilities in preparation for major renovation activities
02/07-04/09	**HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA.** *Environmental Scientist* - Mr. Grant functioned as field crew leader and report manager for the wetland delineation and associated wetland report for the four-lane highway expansion. Project encompassed six distinct wetland communities and other waters over approximately 2 miles of project area. Wetlands delineation included vegetation and soil profile characterization, habitat description, wetland and waterbody boundary determination and mapping, and atypical/problem area assessments.

Firm employed by	G.E.C., Inc.
Name	**Will Grant** *continued resume*

2000-Present	**PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS: Various Locations.** *Environmental Scientist* - Mr. Grant has performed **over 200 Phase I and Phase II environmental site assessments.** He has performed supervision of all field work, including coordination with property owners, site safety, boring and sample location selection, field equipment operations, collection of samples, and proper site closure. Some of the projects he has performed this work on include: • Phase I and II Environmental Site Assessment, Campti School, Campti, Louisiana, U.S. Army Corps of Engineers - New Orleans District – Assisted in the ASTM E1527-05 Phase I Environmental Site Assessment on the Campti School with additional considerations including suspect asbestos and lead-based paint under EPA's TBA program, and managed the field investigation of asbestos containing material and lead-based paint at an abandoned school complex in accordance with applicable portions of ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process and applicable portions contained in LAC Title 33 Part III Chapters 27, 28 and 51. This assessment was conducted under EPA's TBA program. • Phase I & II Environmental Site Assessment, Old Moosa Hospital, Eunice, Louisiana, U.S. Army Corps of Engineers - New Orleans District – Assisted in the ASTM E1527-05 Phase I Environmental Site Assessment with additional considerations including suspect asbestos and lead-based paint on the Old Moosa Hospital under EPA's TBA program. He managed the field investigation of asbestos containing material and lead-based paint at an abandoned hospital complex in accordance with applicable portions of ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process and applicable portions contained in the Louisiana Administrative Code (LAC) Title 33 Part III Chapters 27, 28 and 51. This assessment was conducted under EPA's TBA program. • Phase I Environmental Site Assessment, The Esplanade, New Orleans, Louisiana, Balance Consulting – Conducted an ASTM E 1527-00 Phase I Environmental Site Assessment with additional considerations including asbestos on The Esplanade apartment building in conjunction with property transfer. • Phase I Environmental Site Assessment, Cinclare Central Factory, Port Allen, Louisiana, Jones, Waldo, Holbrook & McDonough – Conducted an ASTM E 1527-00 Phase I Site Assessment with additional considerations including an environmental compliance review on the Historical Cinclare Central Factory in preparation for a property transfer. • Phase II Environmental Site Assessment, Former St. Matthew's School, Melrose, Louisiana. U.S. Army Corps of Engineers - New Orleans District — Assisted in the investigation of asbestos containing material and lead-based paint at an abandoned school complex in accordance with applicable portions of ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process and applicable portions contained in LAC Title 33 Part III Chapters 27, 28 and 51. This assessment was conducted under EPA's TBA program. • Phase II Environmental Site Assessment, Irving Trust/Red Cross, Alexandria, Louisiana. U.S. Army Corps of Engineers - New Orleans District — Managed the field investigation to quantify recognized environmental conditions associated with former uses of the property identified in a Phase I environmental site assessment. Sampled soil via Geoprobe and groundwater via temporary monitoring wells for analysis of chemical constituents and compared the results to RECAP standards in accordance with ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. This assessment was conducted under EPA's TBA program. • Phase II Environmental Site Assessment, Port Manchac, Manchac, Louisiana. U.S. Army Corps of Engineers - New Orleans District — Managed the field investigation to quantify recognized environmental conditions associated with the adjacent property identified in a Phase I environmental site assessment. Sampled soil via Geoprobe and groundwater via temporary monitoring wells for analysis of chemical constituents and compared the results to RECAP standards in accordance with ASTM International Standard E 1903-97, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. This assessment was conducted under EPA's TBA program.

Firm employed by	The Lakvold Group, LLC		
Name	Angela Lemoine-Lakvold, MAI, SRA, R/W-AC	Years of relevant experience with this employer	23
Title	Principal, Appraiser	Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization	B.S. / 1985 / Business and Pubic Administration; MBA / 1998		
Active registration number / state / expiration date	G0575 / Louisiana; R/W-AC / 2012; SRA / 1993		
Year registered 1992	Discipline: General Real Estate Appraiser		
Contract role(s) / brief description of responsibilities	Role on this Project: **Conceptual Stage Relocation Plan**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
59 years of experience	*Angela Lemoine-Lakvold, MAI, SRA, R/W-AC has been a real estate appraiser since 1986. She started her career with LADOTD as a staff appraiser working on road and bridge projects throughout the state of Louisiana. In 1990, she was an appraiser in Baton Rouge, LA where she completed commercial and residential appraisal reports. In 1993, she became a review appraiser for First Commerce Corporation, a holding company for several banks in Louisiana. In 1999 her and husband opened their own appraisal firm, The Lakvold Group. In the last ten years, Angela has specialized in expropriation appraisal work and conceptual stage relocation plans. She has completed numerous appraisals for road improvement projects and pipelines. She has testified as an expert witness in several real estate litigation cases. She has also completed appraisals for conservation easements acquired by the CPRA. She holds the MAI and SRA designation from the Appraisal Institute and a Right-of-Way – Appraisal Certification from the International Right-of-Way Association. In addition to her extensive specialized appraisal education, she has an undergraduate degree in Business and Public Administration from Louisiana State University and an MBA from the University of Louisiana at Lafayette. From 1986-1990, Ms. Lakvold was a staff appraiser with LADOTD.*
05/17-05/20	**H.001271 CANE RIVER BRIDGE CHURCH STREET ENVIRONMENTAL ASSESSMENT: Natchitoches Parish, LA: Mrs.** *Lakvold served as a sub*-consultant for the Cane River Bridge Environmental Assessment Project and provided conceptual stage relocation services. She completed all field visits required to evaluate numerous alternatives for the taking of right-of-way and relocations. She presented her findings in the Final Conceptual Stage Relocation Plan Report, which was approved by LADOTD and FHWA. She attended public meetings and the public hearing for assistance with public outreach.
05/17-03/22 **SECTION 17 PROJECT**	**H.009932 US 80 WIDENING: VANCIL ROAD TO WELL ROAD ENVIRONMENTAL ASSESSMENT: Ouachita Parish, LA: Mrs.** *Lakvold served as a sub*-consultant for the US 80 Widening Environmental Assessment Project and provided conceptual stage relocation services. She completed all field visits required to evaluate numerous alternatives for the taking of right-of-way and relocations. She presented her findings in the Draft Conceptual Stage Relocation Plan Report. She attended public meetings and assisted with public outreach.
12/20-Present	**H.002344, CPP NO. 12-CS-HC-0015, PERKINS ROAD- SIEGEN LANE TO HIGHLAND ROAD: East Baton Rouge Parish, LA.** *Mrs. Lakvold served as a sub*-consultant for the project and provided conceptual stage relocation services. She completed all field visits required to evaluate numerous alternatives for the taking of right-of-way and relocations. Significant residential or commercial right of way acquisitions are anticipated.
2011-2012	**H.004932 (DESIGN-BUILD), US 90 (FUTURE I-49) LA 318 INTERCHANGE: St.** *Mary Parish, LA. Mrs. Lakvold served as a sub*-consultant for the project and provided conceptual stage relocation services. She completed all field visits required to evaluate numerous alternatives for the taking of right-of-way and relocations. The total estimated cost for the alternatives ranged from $32.1 million to $47 million, and this included ROW cost (land only), residential structure acquisitions, mobile home structure acquisitions, commercial structure acquisitions, relocation assistance and estimated construction costs.
01/2010 - Present	Completed appraisals and appraisal reviews on numerous right-of-way projects for federal, state, and local government entities, including: • State Project No. H.007811 Comite River Diversion Canal Project A, EBR Parish, Louisiana • State Project No. H.010087 US Highway 51 and I-12 C & G (Roundabouts), Tangipahoa Parish, Louisiana • State Project No. H.002320 Sullivan Road (Wax Road – Hooper Road) Louisiana Highway 3034, East Baton Rouge Parish, Louisiana • City Parish Project No. 03-CS-HC-0021 State Project No. 07-08-0036 and 077-04-0024 Stumberg Lane Extension Improvements Jefferson Highway to Airline Highway, EBR Parish, Louisiana

Firm employed by	**The Lakvold Group, LLC**
Name	**Angela Lemoine-Lakvold, MAI, SRA, R/W-AC** *continued resume*
	• State Project No. H.010560 Essen Lane Widening Perkins Road to I-10, EBR Parish, Louisiana • State Project No. H.004359 (826-44-0027) Hickory Avenue, Relocated LA 3154 Dickory Extension, Jefferson Parish, Louisiana • State Project No. H.002344 City Parish Project No. 12-CS-HC-0015 Perkins Road to Siegen Lane to Highland Road, EBR Parish, Louisiana • State Project No. H.002822 Nicholson Drive Brightside Lane/West Lee Drive Intersection Improvements, EBR Parish, Louisiana • State Project No. H.007855, LA Highway 934 Intersection Improvements, Ascension Parish, Louisiana • City Parish Project No. 12-CS-HC-0043, State Project No. H.011683 Paulat Boulevard (Picardy- Perkins Connector), EBR Parish, Louisiana • State Project No. H.012290, City Parish Project No. 09-CS-US- 0041 Pecue Lane/I-10 Interchange, EBR Parish, Louisiana • State Project No. H.010924, LA Highway 75 – Roundabouts, Iberville Parish, Louisiana • State Project No. H.002301, North Sherwood Forest Drive Improvements, EBR Parish, Louisiana • State Project No. H.010124, LA Highway 16 Roundabout at LA Highway 447, Livingston Parish, Louisiana • State Project No. H.012233, LA Highway 3064 to LA Highway 1248, Phase I, Dijon Drive Extension, EBR Parish, Louisiana • State Project No. H.007811, FAP No. H007811, Comite River Diversion Canal, East Baton Rouge Parish, Louisiana • State Project No. H.011670 (Design-Build), I-10/Loyola Interchange Improvements, Route I-10, Jefferson Parish, Louisiana • State Project No. H.013690, Runway 13-31 Safety Area, R.P.Z. Improvements, LA Highway 67/Plank Road, Phase I, EBR Parish, Louisiana • State Project No. H.011496, Quail Drive: Turn Lane at Perkins (LA 427), EBR Parish, Louisiana • State Project No. H.010960, LA 30 Roundabouts @ Tanger Mall & I-10, Ascension Parish, Louisiana • Facility Planning and Control Project No. 50-J53-14-03, Hoover Road Widening, Tangipahoa, Louisiana • St. Tammany Regional Airport, Acquisition for Runway Improvements, St. Tammany Parish, Louisiana • State Project No. H.010815, LA 124 Extension (Segment 1), Catahoula Parish, Louisiana • State Project No. H.00984, LA 75 Bayou Bridge, Iberville Parish, Louisiana • State Project No. H.002381, LA 43 Creek Bridge Near Albany, Livingston Parish, Louisiana • State Project No. H.002101, Bayou Des Cannes Bridge – LA Highway 104, Evangeline Parish, Louisiana • State Project No. H.011198, LA 1026 Roundabout at Dunn Road, Livingston Parish, Louisiana
01/2012 – Current	Completed several Conceptual Stage Relocation Plans as part of the Environmental Assessment for several projects for LADOTD including: • State Project No. H.007970, CPP No. 12-CS-HC-0043, Old Hammond Highway (LA 426) Segment 1, East Baton Rouge Parish, Louisiana • State Project No. H.011670 (Design-Build), F.A.P. No. H011670, Interstate 10/Loyola Interchange Improvements, Jefferson Parish, Louisiana • State Project No. H.005734, F.A.P. No. H005734, LA 447 Corridor Study, Route LA 447, Livingston Parish, Louisiana • State Project No. H0012308, Cook Road Imp: LA 16 to Juban Crossing, Livingston Parish, Louisiana • State Project No. H.000284 and H.000289, F.A.P. No. H000284 and H000286, US 90 Pearl River Bridges, Route US 90, St. Tammany Parish, Louisiana and Hancock County, Mississippi

Firm employed by	Arcadis		
Name	Luis Velasquez, PE	Years of relevant experience with this employer	7
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		B.S. / 2012 / Civil Engineering	
Active registration number / state / expiration date		086996 / PA / Exp. 09/2023; 86996 / Georgia / 12-31-2023	
Year registered	2017	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Air Quality/Noise Modeling**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Luis Velasquez is an air quality and noise analyst with seven years of experience in transportation engineering. His engineering experience includes developing environmental air and noise special studies for a wide variety of roadway and bridge projects. Services included carbon monoxide analysis using CAL3QHC, Mobile Source Air Toxics (MSAT) analysis, PM2.5 review, ozone conformity review and Traffic Noise Model 2.5 (TNM 2.5) analysis. The air analysis also includes a review of conformity to the National Ambient Air Quality Standards (NAAQS) for ozone, nitrogen dioxide, sulfur dioxide, and lead. Experienced performing noise studies in accordance with FHWA Highway Traffic Noise Policy and Guidance and state DOT noise policies.*
12/18 – 05/19	**I-40 AT I-77 AT INTERCHANGE IMPROVEMENTS, TIP PROJECT I-3819, FLATIRON CONTRACTORS:** NC. **Noise Subject Matter Expert** for the proposing Design-Build Team (Flatiron Constructors), reviewing the design noise report as part of the pre-bid tender phase of the project. The noise analysis review was completed, included becoming familiar with the NCDOT Traffic Noise Policy and providing details of the design noise report to the Design-Build Team. **The expert review provided by Luis indicated that the design noise report completed back in 2010 did not meet new NCDOT Traffic Noise Policy requirements**. A risk assessment workshop was completed with the roadway engineers, noise team, and contractors to determine how best to estimate for new noise barriers along the project limits.
07/15 – 05/19	**I-85 HOT LANE EXTENSION PI# 110600, CW MATTHEWS CONTRACTING COMPANY:** Atlanta, GA. **Noise Subject Matter Expert** for the proposing Design-Build Team (C.W Matthews Contracting) reviewing the noise report as part of the pre-bid tender phase of the project. Provided details of the noise report to the Design-Build Team and coordinated with roadway design engineers for optimal placement of the required noise barriers. Re-designed and optimized the required noise barriers, while still meeting GDOT Noise Policy, and reduced the project total barrier area by an estimated 50,000 square feet, providing an estimated cost savings of $1.3M to the contractor.
07/17 – 05/19	**I-85 GENERAL PURPOSE LANE WIDENING. PI# 110610, CW MATTHEWS CONTRACTING COMPANY:** Atlanta, GA. **Noise Subject Matter Expert** for the proposing Design-Build Team (C.W Matthews Contracting) reviewing the noise report as part of the pre-bid tender phase of the project. Re-designed and optimized the required noise barriers, while still meeting GDOT Noise Policy, and reduced the project total barrier area by an estimated 20,000 square feet, providing an estimated cost savings of $500K to the contractor.
09/13 – 03/16	**I-285 AT RIVERSIDE DRIVE, GDOT:** Atlanta, GA. Traffic & Noise Engineer. Conducted a **traffic noise impact assessment** for the proposed Interstate 285 at Riverside Drive interchange modification. Project responsibilities included data collection of existing conditions, and traffic noise modeling for existing, no-build and build conditions using TNM 2.5. Identified potential traffic noise impacts based on the proposed interchange configuration, and investigated the feasibility of noise mitigation measure (barriers) including benefit-cost analysis. Compiled all noise analysis and results into narrative reports and figures.
04/14 – Present	**I-285 @ GA 400, GDOT:** Metro Atlanta, GA. Traffic & Noise Engineer. Conducting **traffic noise impact assessment** for one of Metro Atlanta's most congested interchanges to support an Environmental Assessment, public involvement, and NEPA Re-Evaluation. Performed data collection of existing conditions, and traffic noise modeling for existing, no-build and build conditions using TNM 2.5. Identified potential traffic noise impacts based on the proposed interchange configuration. Investigated the feasibility of noise mitigation measures (sound barriers) including benefit-cost ratios.

Firm employed by	Arcadis		
Name	Justin Maderia, PE, PTOE, PTP	Years of relevant experience with this employer	17
Title	Noise and Air Expert	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	M.S. / 2005 / Civil Engineering; B.S. / 2004 / Civil Engineering		
Active registration number / state / expiration date	38492 / Louisiana / 03-31-2024; 3455 / USA / 07-01-2024; 604 / 07-01-2023		
Year registered 2013	Discipline: Professional Engineer, Civil; PTOE; PTP		
Contract role(s) / brief description of responsibilities	Role on this Project: **Air Quality/Noise Modeling**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Maderia's experience in transportation engineering includes noise and air analysis, safety studies, feasibility studies, traffic flow/demand modeling, spot speed studies, micro-simulation modeling, and traffic noise modeling. His experience with safety studies includes crash review and analysis, development of safety improvements and countermeasures, and application of Highway Safety Manual (HSM) methodologies to evaluate the effectiveness of safety improvements. He has also served as the project engineer responsible for the design of highway projects. Specific design experience includes maintenance of traffic design, traffic control plan design, roadway geometry, horizontal and vertical alignment design. His software program experience includes IHSDM, AutoCAD, MicroStation, Geopak, AutoTurn, SignCAD, GIS, TNM, CORSIM, VISSIM, HCS and all Microsoft Office Applications. Mr. Maderia has completed LADOTD Traffic Engineering Process and Report Training.*
06/13-03/16 **SECTION 17 PROJECT**	**H.000688.2 US 11 ENVIRONMENTAL ASSESSMENT - TRAFFIC & NOISE, LADOTD:** Slidell, Louisiana. Transportation & Noise & Air Engineer. Responsible for developing existing and future traffic volumes, growth rate estimation, alternative evaluation, preliminary traffic signal timing analysis, crash analysis, and **air and noise analysis**. This project included the replacement of the bridge over the Norfolk Southern Railroad and widening the roadway from a two-lane undivided to a four-lane divided roadway for the segment of US 11 between I-12 and US 190 (Gause Boulevard) in Slidell. The project study area is comprised of Synchro analysis for six signalized and four unsignalized intersections.
08/12 – 05/13	**I-210 COVE LANE/NELSON ROAD INTERCHANGE IMPROVEMENTS ENVIRONMENTAL ASSESSMENT, LADOTD:** Calcasieu Parish, Louisiana. Design Engineer. This project involved the Environmental Assessment completion for proposed improvements to I-210 between Cove Lane and Nelson Road. The project included improvements along I-210 and the adjoining local street network. The interchange improvements provide access to future development and address future traffic needs. Mr. Maderia conducted **the noise analysis in accordance with policies and procedures prescribed in the Highway Traffic Noise Policy and Guidance**, issued by FHWA in 1995, and the LADOTD's statewide policy, titled Department of Transportation and Development Highway Noise Policy. Worked as a design engineer, conducted traffic noise impact assessment, and air analysis for the study.
12/11 – 07/13	**CHEF MENTEUR BRIDGE AND APPROACHES ROUTE US 90 ENVIRONMENTAL ASSESSMENT, LADOTD:** Orleans Parish, Louisiana. Design Engineer. This project involves the **Environmental Assessment** completion for proposed improvements to the Chef Menteur Bridge and Approaches. The proposed project includes replacing the existing Chef Menteur Pass Bridge and Approaches, located in Orleans Parish on U.S. Highway 90. The project calls for a replacement bridge with two 12-foot-wide travel lanes and 10-foot-wide shoulders on each side. The logical termini were approved by the Federal Highway Administration (FHWA). The study area extends along US 90 from US 11 to Louisiana Highway 433. The study was conducted in accordance with policies and procedures prescribed in the **Highway Traffic Noise Policy and Guidance** issued by FHWA in 1995 and the LADOTD's statewide policy, titled Department of Transportation and Development Highway Noise Policy. Worked as a design engineer conducting **traffic noise impact assessment** portion of the study.
01/14 – Present **SECTION 17 PROJECT**	**H.002397.2 PETE'S HIGHWAY INTERCHANGE ALTERNATIVE AND ENVIRONMENTAL ASSESSMENT, LADOTD:** Livingston Parish, LA. Mr. Maderia provided **traffic air and noise modeling, analysis, and reporting for this Enivironmental Assessment** in accordance with DOTD's Highway Traffic Noise Policy and Guidance.

Firm employed by	**Gulf South Research Corporation**		
Name	**John Lindemuth**	Years of relevant experience with this employer	29
Title	**Principal Investigator / Archaeologist**	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	M.A./1994/Anthropology; B.A./1990/Anthropology/Sociology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Archaeologist**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Mr. Lindemuth has 23 years of experience in cultural resource management. He has participated in and supervised intensive cultural resources surveys, NRHP Eligibility archaeological site testing, and data recovery excavations in nine states. He has experience in both prehistoric and historic site evaluation and excavation. He has analyzed both historic and prehistoric cultural remains for several different projects. Mr. Lindemuth's experience working with governmental agencies at the local, state, and Federal levels has given him a broad knowledge of compliance with Section 106 of the NHPA, and he has **completed the Introduction to Section 106 Review Course offered by the Advisory Council**. Mr. Lindemuth has supervised and participated in chain of title search for historic properties, cultural resources surveys (Phase I), archaeological site testing (Phase II), and data recovery (Phase III). Mr. Lindemuth has also prepared technical reports which outlined the results of all phases of archaeological investigations as well as agreement documents, such as Memorandums of Agreement (MOAs) and Programmatic Agreements (PAs), and preparation of Section 106 Adverse Effects documentation. Mr. Lindemuth is also familiar with the preparation of artifacts and associated records for permanent curation in accordance with curation guidelines, including those published by the Louisiana Division of Archaeology. Mr. Lindemuth is very familiar with conducting Section (4f) evaluations for DOTD and FHWA when highway improvements have the potential to affect public parks and recreational areas, waterfowl and wildlife refuges, and historic sites.*
02/21-06/21	**US 165 UNION PACIFIC RAILROAD OVERPASS BRIDGE NEAR BONITA:** Morehouse Parish, Louisiana. John served as the Principal Investigator for the Phase I cultural resources survey with GSRC in order to identify cultural resources that may be impacted by the replacement of the Union Pacific Railroad Overpass Bridge on U.S. Route 165 near Bonita, LA. The survey included a pedestrian walkover and excavation of shovel test pits. An executive summary of the results of the survey was submitted to DOTD within 5 days after completing the fieldwork. GSRC also prepared an addendum report outlining the results of the survey. The **Section 106 cultural resources report** was submitted to the Louisiana SHPO during the consultation on the project. The Louisiana SHPO concurred with all the findings presented in the report.
12/13-12/14	**PRINCIPAL INVESTIGATOR. PHASE I CULTURAL RESOURCES SURVEY FOR THE PROPOSED ENGLAND AIRPARK CLEARING AND GRUBBING FOR WILDLIFE HAZARDS CONTROL:** Mr. Lindemuth served as the principal investigator for the cultural resources survey of 53 acres for proposed clearing and grubbing. Two archaeological sites, two standing structures, and two isolated finds were recorded during the surveys. None of the sites, standing structures, or isolated finds were recommended eligible for the NRHP. Mr. Lindemuth wrote the **Section 106 technical report** outlining the results of the study and also integrated the results into the Environmental Assessment, which was prepared for the project in compliance with the National Environmental Policy Act.
08/18-05/20	**PRINCIPAL INVESTIGATOR. CULTURAL RESOURCES SURVEY OF 12.01 LINEAR MILES AND 20 GRADING AND CONSTRUCTION EASEMENTS FOR THE PROPOSED RIO GRANDE CITY ROAD IMPROVEMENT PROJECT:** Rio Grande City, Texas, Rio Grande Valley Sector, U.S. Customs and Border Protection, Department of Homeland Security, Starr County, Texas. Mr. Lindemuth served as Principal Investigator for the intensive cultural resources survey of 12.01 linear miles of road construction and improvement corridor totaling 57.4 acres. The survey included a pedestrian walkover and excavation of shovel test pits. The survey identified 14 new archaeological sites, revisited and updated two previously identified archaeological sites, and recorded 12 isolated occurrences. Four of the 16 archaeological sites recorded or updated during the surveys were recommended for additional testing to determine their eligibility for the NRHP. Mr. Lindemuth directed crews in the field, co-authored the cultural resources technical report, and integrated the findings in the associated NEPA documentation for the project.

Firm employed by	**Gulf South Research Corporation**
Name	**John Lindemuth** *continued resume*
04/14-10/17	**PRINCIPAL INVESTIGATOR. ARCHAEOLOGICAL PHASE II TESTING AND PHASE III MITIGATION AND DATA RECOVERY AT TWO CULTURAL RESOURCES SITES, THE MCNUTT PLANTATION (16RA692) AND THE WEIL PROPERTY (16RA703), FOR ENGLAND ECONOMIC AND INDUSTRIAL DEVELOPMENT DISTRICT:** Alexandria, Louisiana. Mr. Lindemuth served as the principal investigator for the combined Phase II NRHP archaeological site testing and Phase III data recovery excavations for two historic sites located in Rapides Parish, Louisiana. Mr. Lindemuth aided in the development of the Research Design and Work Plan, culling agreement, the management summaries for both the Phase II and Phase III work, the Memorandum of Agreement to address the adverse impacts on the sites, and the combined Phase II and III technical report. The project recovered over 3,000 artifacts dating from the middle nineteenth to twentieth century found in association with multiple features including foundation piers and a belowground cistern. The production of the management summaries allowed for the expedited review of the project so that it could proceed while the final **Section 106 cultural resources report** was completed.
07/07-01/16	**PRINCIPAL INVESTIGATOR. PHASE I SURVEY OF THE PROPOSED I-69 CORRIDOR:** Caddo and Bossier Parishes, Louisiana. Mr. Lindemuth served as principal investigator and supervised the field investigations during the Phase I cultural resources survey. The project consisted of multiple phases of data collection that were analyzed using GIS and used for the planning of the project corridor. The sources of data included known archaeological sites, known historic standing structures, geomorphology of the area, high- and low-probability zones developed by the principal investigator, the geomorpologist, and field director, and the results of a standing structure survey of a preferred corridor. Phase I intensive cultural resources surveys were conducted on the alignment selected using these criteria. Mr. Lindemuth directed the field investigations and was the primary author of the **Section 106 cultural resources survey report**, which outlined the results of the surveys.
09/22- Ongoing	**PROJECT ARCHAEOLOGIST. CLASS III CULTURAL RESOURCES SURVEY OF 12-ACRES FOR THE PROPOSED THREE POINTS BORDER PATROL STATION EXPANSION:** U.S. Border Patrol Tucson Sector, Pima, County, Arizona (Arizona Department of Transportation Project Number: H08801R, Agreement CRA-3308-1), CBP. Mr. Lindemuth served as project archaeologist for the cultural resources inventory of 12 acres for the proposed expansion of the U.S. Border Patrol Station located in Three Points, Arizona. The project was conducted in association with SWCA Environmental Consultations under their permit for Arizona State Land. Nine isolated occurrences were noted during the surveys, none of which were recommended eligible for the National Register of Historic Places. Mr. Lindemuth coordinated the fieldwork with personnel from both companies and prepared the Arizona State Historic Preservation Office Survey Report Summary Form and **Section 106 documentation** under the direction of the principal investigator for the project.
03/22-02/23	**PROJECT ARCHAEOLOGIST. CLASS I INVENTORY FOR SIX PROPOSED BORE HOLE LOCATIONS AT KARTCHNER CAVERNS STATE PARK:** Cochise County, Arizona. Mr. Lindemuth served as principal investigator for ta Class I Inventory of proposed bore hole locations in support of a new wastewater treatment facility at Kartchner Caverns State Park. The Class I Inventory included a review of the records in the online AZSITE database as well as virtual records check of the records houses at ARO. The Class I inventory showed the areas for the proposed improvements and bore hole locations were surveyed over 10 years ago and were not done to today's standards. In addition, two previously recorded archaeological sites were found in associated with two of the bore hole locations. Given the results of the Class I inventory, it was recommended that the area be subject to a Class III intensive archaeological survey and the two previously recorded archaeological sites be relocated and updated. Mr. Lindemuth prepared the Class I Inventory letter report outlining the results of the record search and his recommendations.
06/21-10/22	**PROJECT ARCHAEOLOGIST. ENVIRONMENTAL ASSESSMENT (EA) HURLBURT FIELD ACCESS GATES RECONSTRUCTION:** Hurlburt Field, Florida. Mr. Lindemuth served as project archaeologist and subject matter expert for the preparation of the cultural resources section for an Environmental Assessment (EA) to address potential effects from the reconstruction of five access gates and the reconstruction of a commercial vehicle inspection gate at Hurlburt field. Mr. Lindemuth utilized existing data, including the Integrated Cultural Resources Management Plan (ICRMP) to assess the potential impacts to cultural resources from the reconstruction of the gates. Mr. Lindemuth prepared the **Section 106 cultural resources section** that assess the potential effects of the alternatives which will be integrated into the EA for the project.

Firm employed by	**Gulf South Research Corporation**		
Name	**Bretton Somers, Ph.D.**	Years of relevant experience with this employer	16
Title	**Principal Investigator / Archaeologist**	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	Ph.D./2007/Geography; M.A./2004/Geography; B.A./1994/Communications		
Active registration number / state / expiration date	RPA/2022		
Year registered	2005	Discipline	Registered Professional Archaeologist
Contract role(s) / brief description of responsibilities	Role on this Project: **Archaeologist**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Dr. Somers joined the team at GSRC as an archaeologist in 2007. His 2007 completion of his doctorate provided him with 6 years of experience in archaeological research, fieldwork, and GIS analysis. With GSRC, Dr. Somers has supervised and participated in over 50 cultural resources investigations including Section 106, Section 110, and environmental compliance projects in 19 states. Dr. Somers has also worked outside the U.S. in Belize and Cuba. This involvement has provided a broad base of experience in prehistoric and historic archaeology across several regions of North America, has allowed him the opportunity to work with numerous tribal and government agencies at the local, state, and Federal levels, and has given him a broad knowledge of cultural resources laws and regulations.* ***He has completed the Introduction to Section 106 course offered by the Advisory Council.***
02/21-06/21	**US 165 UNION PACIFIC RAILROAD OVERPASS BRIDGE NEAR BONITA:** Morehouse Parish, Louisiana. Bretton served as the Project Manager for the Phase I cultural resources survey with GSRC in order to identify cultural resources that may be impacted by the replacement of the Union Pacific Railroad Overpass Bridge on U.S. Route 165 near Bonita, LA. The survey included a pedestrian walkover and excavation of shovel test pits. An executive summary of the results of the survey was submitted to DOTD within 5 days after completing the fieldwork. GSRC also prepared an addendum report outlining the results of the survey. The cultural resources report was submitted to the Louisiana SHPO during the consultation on the project. The Louisiana SHPO concurred with all the findings presented in the report.
03/20-05/20	**PROJECT MANAGER/PRINCIPAL INVESTIGATOR. PHASE I ARCHAEOLOGICAL INVESTIGATION OF THE ST. ROSE TO NORCO PIPELINE:** St. Charles Parish, Louisiana. Dr. Somers served as project manager and principal investigator for the intensive Phase I cultural resources survey of 7.4 miles (75.14 acres) of proposed new pipeline from the International Matex Tank Terminal (IMTT) in St. Rose to portions of Shell's Norco Manufacturing Complex facility in Norco in St. Charles Parish, Louisiana. GSRC conducted the investigation on behalf of Ramboll US Corporation (Ramboll) under Section 106 of the NHPA. The investigation included an intensive Phase I archaeological survey combining pedestrian surface inspection with Shovel test pits excavated along transects using a high probability predictive model. No archaeological sites were recorded during this investigation. No aboveground/ built resources over 50 years of age were recorded within or adjacent to the survey area. As a result, no further archaeological investigations were recommended for the project area.
02/13-12/13	**PRINCIPAL INVESTIGATOR. CAMBRIDGE ENERGY FLOATING LIQUEFIED NATURAL GAS (FLNG) FACILITY:** Plaquemines Parish, Louisiana. Cambridge Energy, LLC is proposing the construction and operation of a FLNG facility on the Mississippi River in Plaquemines Parish, Louisiana. Cambridge Energy contracted GSRC for the preparation of Resource Reports with sufficient information and analysis for the preparation of an EIS. The selected APE includes dredging from the navigation channel of the Mississippi River into the batture and natural levee on the east bank of the river across from Venice, Louisiana. A portion of the facility extends eastward into the coastal marsh. The cultural resources portion of the investigation involved a terrestrial survey of the high ground portions of the APE, a fan boat inspection of the marsh portion of the APE, and a marine remote sensing survey of the proposed area of dredge activity in the Mississippi River channel. Dr. Somers was responsible for coordination with the Louisiana SHPO, background research, assessing required research needs given the fluvial, terrestrial, and marsh landscape, conducting the terrestrial and marsh fieldwork, coordinating with a team of marine archaeologists to perform the marine remote sensing survey, and synthesizing all data collected into the required reports for the project. No cultural resources were discovered in the initial field surveys of the APE.

Firm employed by	Gulf South Research Corporation
Name	**Bretton Somers, Ph.D.** *Continued Resume*
08/10-11/12	**PRINCIPAL INVESTIGATOR. PHASE I CULTURAL RESOURCES SURVEY FOR THE PROPOSED IMPROVEMENTS TO THE NEW ORLEANS TO VENICE LEVEE PROTECTION PROJECT:** Plaquemines Parish, Louisiana, USACE, Vicksburg District. Dr. Somers served as the principal investigator for the Phase I cultural resources survey of approximately 4,208 acres distributed along linear corridors flanking 86.8 miles of the Federal Mississippi River Levee and back levees in lower Plaquemines Parish, Louisiana. The project included restoring, armoring, and accelerated completion of the existing Federal levees on the east bank from Phoenix to Bohemia (15.8 miles of back levee) and on the west bank from St. Jude to Venice (37 miles of back levee and 34 miles of Mississippi River levee) to provide the authorized design grade for storm risk reduction. The project APE included Mississippi River Batture, the protected land between the levees and coastal marsh on the outside of the back levees. The investigation resulted in the recovery of several thousand artifacts and the recording of 43 newly discovered Historic period sites. Of the 43 newly recorded sites, examination of field data and laboratory analysis of artifacts resulted in recommendation of one site as eligible, 29 sites as ineligible, and 13 sites of undetermined eligibility for the NRHP.
09/13-03/17	**PROJECT MANAGER/PRINCIPAL INVESTIGATOR. NAVAL AIR STATION (NAS) MERIDIAN PHASE II ARCHAEOLOGICAL EVALUATION OF SITES 22LD693 AND 22LD697:** Lauderdale County, Mississippi. Dr. Somers provided overall administrative oversight for the project, including scheduling; cost management; recruiting, hiring, and supervising necessary personnel; and coordinating with the NAVFAC SE Technical Representative and Cultural Resource Manager at NAS Meridian. Additionally, Dr. Somers served as Principal Investigator, developing the work plan for the investigation, supervising, and participating in fieldwork, and preparing the technical report and Powerpoint™ presentation. This project was conducted under Section 110 of the NHPA of 1966, and with its implementing regulations (16 United States Code [U.S.C.] 470h-2[a]). The investigation included an archaeological survey with shovel testing along transects within an area of 2.7 acres for site 22LD693 and 3.66 acres for site 22LD697 to relocate and delineate the boundaries of the sites. Once the sites were relocated, additional shovel testing was conducted to further define the horizontal and vertical site boundaries and to determine concentration areas of cultural material. Test units measuring 1 meter (m) by 1 m wide and 1 m below ground surface were excavated at each site. This investigation has revealed that sites 22LD693 and 22LD697 consist of sparse scatters of prehistoric artifacts. As sparse artifact scatters, sites 22LD693 and 22LD697 do not possess the data necessary to determine association with Criteria A, B, or C, but could contribute information pertaining to Criterion D. However, neither site exhibited the potential for cohesive cultural deposits that would indicate a significant cultural presence or activities from which additional information could be obtained. Further, considering the limited nature of findings from this investigation combined with those from the previous investigation of the sites, the information potential for sites 22LD693 and 22LD697 has been exhausted. It was recommended that the NRHP determination for these two sites as not eligible was appropriate and no further work is warranted.
09/18-03/22	**PRINCIPAL INVESTIGATOR. HIGHWAY 86 CHECKPOINT, CALIFORNIA. THE INVESTIGATION WAS CONDUCTED IN SUPPORT OF A COOPERATIVE EFFORT BY USACE:** Sacramento District, the Central Valley Flood Protection Board, and the Sacramento Area Flood Control Agency to address seepage and stability issues in approximately 42 miles of levee surrounding the Natomas Basin. The project included multiple tiered tasks including a Kickoff Meeting, Records Search and Literature Review, Geoarchaeological Sensitivity Assessment and Testing Plan, Cultural Resources Survey and development of an Evaluation Plan, development of a Historic Properties Treatment Plan, and Evaluation Testing. Dr. Somers served as project manager and principal investigator for this project and provided overall administrative oversight for the project including scheduling, cost management, supervising necessary personnel and coordinating with the Sacramento District Archaeologist.

Firm employed by	**Gulf South Research Corporation**		
Name	**Elizabeth Hunt**	Years of relevant experience with this employer	5
Title	Archaeologist / Director	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	M.A./2017/Anthropology; B.A./2012/Anthropology and History		
Active registration number / state / expiration date	Registered Professional Archaeologist		
Year registered 2017	Discipline: Registered Professional Archaeologist		
Contract role(s) / brief description of responsibilities	Role on this Project: **Archaeologist**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
11 years of experience	*Ms. Hunt joined GSRC as an archaeologist in 2018 and has had several years of experience in Cultural Resource Management (CRM) since completing her B.A in Anthropology in 2012. She has participated in and supervised Phase I cultural resources surveys, National Register Eligibility archaeological site testing, data recovery excavations, and monitoring in seven states, including Louisiana. She has experience in both prehistoric and historic site evaluation and excavation. She has also analyzed both historic and prehistoric cultural remains for several different projects. Ms. Hunt's experience working with governmental agencies at the local, state, and Federal levels has given her a broad knowledge of Section 106 compliance of the NHPA. Ms. Hunt has completed the Section 106 Essentials course by the Advisory Council on Historic Preservation (ACHP).*
02/21-07/21	**ARCHAEOLOGIST/PROJECT DIRECTOR. CULTURAL RESOURCES SURVEY OF 1.9 ACRE FOR THE PROPOSED BONITA BRIDGE REPLACEMENT SITE:** Morehouse Parish, Louisiana. Ms. Hunt served as the Project Director and Field Director for the cultural resources survey of approximately 1.9 acres in Morehouse Parish, Louisiana. The survey was conducted for the Louisiana Department of Transportation and Development (DOTD), on behalf of the Federal Highway Administration (FHWA). The survey was conducted for the proposed replacement site of the Union Pacific Railroad Overpass Bridge. Prior to initiation of fieldwork, Ms. Hunt conducted background and archival research including previously conducted archaeological investigations and previously recorded archaeological sites and historic structures in the region. No archaeological resources were recorded as a result of the investigation. Given the lack of any cultural resources recorded during the survey, a negative findings report was produced for submittal to the Louisiana State Historic Preservation Officer as part of consultation under Section 106 of the NHPA. Ms. Hunt served as a co-author for the negative findings report.
09/18-01/21	**ARCHAEOLOGIST/PROJECT DIRECTOR. PHASE I CULTURAL RESOURCES SURVEY FOR THE BIENVILLE NATIONAL FOREST SERVICE:** Smith, Newton, and Scott Counties, Mississippi. Ms. Hunt served as the Project Director for the cultural resources survey of approximately 4,017 acres in Smith, Newton, and Scott counties, Mississippi within the Bienville National Forest. This work was completed in support of proposed logging activities throughout the forest on behalf of the U.S. Department of Agriculture (USDA). Prior to fieldwork, Ms. Hunt conducted background and archival research for previously conducted archaeological investigations and archaeological sites. Ms. Hunt was the co-author for the cultural resources survey report that was submitted to the Mississippi Department of Archives and History, State Historic Preservation Officer (SHPO) as part of consultation under Section 106 of the National Register of Historic Places (NRHP).
11/17-05/18	**ARCHAEOLOGIST/PROJECT DIRECTOR. PHASE I CULTURAL RESOURCES SURVEY FOR IRRIGATION LAND LEVELING AND RELATED CONSERVATION PRACTICES EAST OF CYPRESS CREEK:** Richland Parish, Louisiana. Ms. Hunt served as the Project Director and Crew Chief for a cultural resources survey involving the Phase I shovel testing for the proposed land disturbance in agricultural fields to the east of Cypress Creek in Richland Parish, Louisiana. Seven archaeological sites were located and recorded as a result of the survey. These sites were recommended ineligible for the NRHP. Ms. Hunt prepared a cultural resources survey report, which outlined the results of the study with the Louisiana Public Archaeology Lab, University of Louisiana at Lafayette on behalf of the Natural Resources Conservation Service (NRCS), U.S. Department of Agriculture (USDA) to be submitted to Louisiana Office of Cultural Development, Division of Archaeology.
04/17-11/17	**ARCHAEOLOGICAL TECHNICIAN. PHASE I CULTURAL RESOURCES SURVEY FOR THE TOMBIGBEE NATIONAL FOREST:** Mississippi. Ms. Hunt participated in Phase I cultural resources surveys within the National Forest. Ms. Hunt conducted shovel testing and a pedestrian survey in this project and assisted the field director with data collection and day to day operations.

Firm employed by	**Gulf South Research Corporation**		
Name	**Suna Adam**	Years of relevant experience with this employer	30
Title	**President**	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization	B.S. / 1988 / Forestry-Wildlife Management		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Cultural Resources Quality Control / Quality Assurance**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Ms. Adam is the President and a Senior Biologist at GSRC. As President, Ms. Adam maintains ultimate technical and financial responsibility for all contracts. She, therefore, also has the authority to assign personnel to projects, acquire the equipment or additional personnel necessary to complete a task, and to obtain subcontractors or consultants on an as needed basis. Ms. Adam has served as contract manager on numerous indefinite delivery contracts for various Federal agencies, including LA DOTD. Under her leadership, GSRC has grown from one employee in 1994 to 34 full time professionals and has grown the contract base to provide annual revenues of several million dollars. As an ecologist, Ms. Adam has participated in numerous environmental projects ranging from endangered species surveys and wetland delineations to environmental assessments and environmental impact statements. Ms. Adam has attended various training courses including the NHI Course No. 142005, "National Environmental Policy Act (NEPA) and Transportation Decision Making", a 40-hour Hazardous Waste Training course under 29 CFR 1910.1120 requirement, the U.S. Army Corps of Engineers Regulatory IV Wetland Identification and Delineation course, a U.S. Fish and Wildlife Symposium on the red-cockaded woodpecker, and a Habitat Evaluation Procedures (HEP) course also sponsored by USFWS.*
05/12-05/17	**PROGRAM MANAGER. IDIQ CONTRACT FOR NATURAL AND CULTURAL RESEARCH AND DEVELOPMENT SERVICES FOR VARIOUS MILITARY AND CIVIL WORKS PROJECTS:** at Fort Polk, Louisiana, and other locations within the Southwest Division of the USACE. Ms. Adam managed this contract and provided oversight on task orders issued to support projects that included engineering technical support for the Fort Polk Installation Restoration Program (IRP); Phase I Environmental Site Assessments; the preparation of habitat restoration plans; wetland delineations; cultural resources surveys, standing structures (architectural) / built environment surveys and evaluations, and archaeological surveys; NEPA for an Immigration and Customs Enforcement (ICE) facility in Louisiana and U.S. Border Patrol (USBP) towers in Texas; sustainability studies; and greenhouse gas emissions inventories.
08/10-11/11	**PROGRAM MANAGER. SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT, HURRICANE PROTECTION LEVEE IMPROVEMENT PROJECT:** New Orleans to Venice, Louisiana, U.S. Army Corps of Engineers, Vicksburg District. GSRC prepared a SEIS for the USACE, Vicksburg District, to evaluate potential impacts associated with the authorized improvements to the New Orleans to Venice (NOV) Federal Hurricane Protection Levee system in Plaquemines Parish, Louisiana. The proposed action is located along the Mississippi River corridor in Plaquemines Parish, Louisiana, and includes the Mississippi River and back levee reaches where approximately 90 miles of levees, floodwalls, and floodgates extending from Phoenix to Venice would be modified. The project included restoring, armoring, and accelerated completion of the existing Federal levees on the east bank from Phoenix to Bohemia (15.8 miles of back levee) and on the west bank from St. Jude to Venice (37 miles of back levee and 34 miles of Mississippi River Levee) to provide the authorized design grade for storm risk reduction. GSRC was also tasked with conducting a cultural resources survey in support of the SEIS. Ms. Adam was the Program Manager for this project and assisted in preparation of biological sections of the SEIS.
05/07-11/10	**QUALITY CONTROL SUPERVISOR. ENVIRONMENTAL AND HISTORICAL PRESERVATION REVIEW FOR THE ALTERNATIVE HOUSING PILOT PROJECT, FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) (HSFEHQ-07-C-0173):** Ms. Adam coordinated the contractual agreements, agency meetings, and technical reviews of all documents submitted for this contract. GSRC was contracted to conduct numerous surveys; cultural, protected species, and wetland delineations within the Gulf Coast region from Texas to Alabama. These areas were affected by hurricanes Katrina and Rita, therefore alternative housing needs were identified in these regions and surveys of these areas were required. GSRC archaeologists and biologists surveyed areas that were identified to become residential development for displaced families.

Firm employed by	**Gulf South Research Corporation**		
Name	**Alexis Thomas**	Years of relevant experience with this employer	9
Title	Architectural Historian	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization	M.S. / 2016 / Urban Studies, M.P.S. / 2009 / Preservation Studies, B.A. / 2007 / Art History		
Active registration number / state / expiration date	N/A		
Year registered N/A	Discipline N/A		
Contract role(s) / brief description of responsibilities	Role on this Project: **Architectural Historian**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
24 years of experience	*Ms. Thomas has supervised cultural resource surveys in the Louisiana, Florida, New York, California, Mississippi, Alabama, Texas, Nevada, & Cuba. She has conducted cultural resource surveys for the Dept. of Defense, Bureau of Reclamation, U.S. Forest Service, U.S. Customs & Border Protection, & USACE. Ms. Thomas will be the Architectural Historian responsible for the Historic American Building Survey (HABS)/Historic American Engineering Record (HAER)/ Historic American Landscapes Survey (HALS) and **she meets the Secretary of Interior's Qualifications for historic preservation**.*
11/21-04/22	**ARCHITECTURAL HISTORIAN. HISTORIC STRUCTURES SURVEY FOR HARBORSIDE DEVELOPMENT AT HIDDEN HARBOUR:** Pompano Beach, Broward County, Florida. GSRC was contracted to provide a **standing structures** (architectural)/built environment survey and analysis of resources that may be impacted by the proposed construction of the Harborside Development at Hidden Harbour Marina, a Department of Housing and Urban Development project. Harborside development included a three-story, four-story, six-story, eight-story, and nine-story building, with additional on-site improvements. GSRC was responsible for the development of the Area of Potential Effect (APE), the reconnaissance survey of the project area, the documentation and evaluation of eight resources, and the assessment of effects on any eligible resources.
01/16-06/21	**ARCHITECTURAL HISTORIAN. HISTORIC AMERICAN BUILDING SURVEY (HABS) DOCUMENTATION, HISTORIC LANDSCAPE REPORT AND EXHIBITS:** Ft. Hood, Texas. Ms. Thomas served as the Architectural Historian and conducted a HABS Level II Documentation of the Reynolds House at Ft. Hood, Texas. Ms. Thomas developed a Historic Report of the Reynolds House of Fort Hood, which documented the history of the house, details of the interior and exterior of the building, renovations, and layout. Following the **HABS documentation and the HALS report**, Ms. Thomas assisted in developing interpretive exhibits outlining the history and significance of both the Reynolds House and Hood Army Heliport.
10/20	**ARCHITECTURAL HISTORIAN. CULTURAL RESOURCE SURVEY AND VIEWSHED ANALYSIS REPORT FOR THE 1006 AND 1008 SKYLAND DRIVE PIER PROJECT:** Douglas County, Nevada. Far Western Anthropological Research Group, Inc., Carson City, Nevada. Ms. Thomas was contracted to provide a cultural resource assessment of built environment resources in advance of the rebuild and extension of a one pier near Glenbrook in Douglas County, Nevada. This project was completed to meet the U.S. Army Corps of Engineer's Section 106 compliance for federal permits.
02/15-10/15	**ARCHITECTURAL HISTORIAN. SECTION 110 ARCHITECTURAL SURVEY OF 29 HISTORIC STRUCTURES AT NAVAL AIR STATION KINGSVILLE, PHASE II:** Kingsville, Texas. Ms. Thomas served as the Architectural Historian and conducted a **standing structures** (architectural)/ built environment survey in compliance with Section 110 of the National Historic Preservation Act (NHPA) of 1966, as amended, for Naval Air Station Kingsville (NAS Kingsville). Ms. Thomas conducted an assessment and evaluation of structures that had reached 45 years of age, or older, and had not been previously evaluated; were considered a Cold War-era resource and were potentially eligible for inclusion in the National Register under Criteria Consideration G; and were considered a historic or cultural landscape.
04/14-11/14	**ARCHITECTURAL HISTORIAN. SECTION 110 ARCHITECTURAL SURVEY OF 75 HISTORIC STRUCTURES AT NAVAL AIR STATION PENSACOLA:** Pensacola, Florida. Ms. Thomas served as the Architectural Historian and conducted a **standing structures** (architectural)/ built environment survey of the built environment in compliance with Section 110 of the National Historic Preservation Act (NHPA) of 1966, as amended, for Naval Air Station Pensacola (NAS Pensacola), including the areas of Corry Station and Saufley Field. Ms. Thomas conducted an assessment and evaluation of structures that had reached 45 years of age, or older, and had not been previously evaluated; were considered a Cold War-era resource and were potentially eligible for inclusion in the National Register under Criteria Consideration G; and were considered a historic or cultural landscape.

Firm employed by	**Marmillion/Gray Media, Inc.**		
Name	**Rannah Gray**	Years of relevant experience with this employer	16
Title	**Public Involvement Lead**	Years of relevant experience with other employer(s)	22
Degree(s) / Years / Specialization	B.A. / 1977 / Journalism; M.A. / 1979 / Journalism		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Public/Stakeholder 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 years of experience specified in the applicable MPR(s).
	*One of the state's most experienced public engagement professionals for transportation projects, Rannah Gray has developed and implemented successful strategies for public and stakeholder outreach in Louisiana, Texas, Mississippi, Alabama, and Florida. She serves as the communications lead and public engagement co-lead for MOVEBR, and the public outreach and marketing lead for Commuter Krewe, a project of the Capital Region Planning Commission (CRPC) and DOTD to reduce traffic congestion by promoting alternatives to single occupied vehicle travel. Rannah has provided public/stakeholder outreach and communications for environmental studies (both Environmental Assessments and Environmental Impact Statements) for the proposed Baton Rouge Loop project and the proposed Nicholson Corridor High-Capacity Transit System, which is now the Bust Rapid Transit project. She is a graduate of the 2013 Louisiana Leadership Class and her work has won over 20 national marketing and communications awards.*
03/09-03/16 **SECTION 17 PROJECT**	**ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR THE BATON ROUGE LOOP PROJECT:** Baton Rouge, LA. Ms. Gray served as the lead for public and stakeholder outreach and communications. This included building stakeholder databases and mailing lists, managing stakeholder workshops, public meetings, public comments, all public communications, website, surveys, elected official briefings, and public hearings. The Baton Rouge Loop was a proposed bypass around Baton Rouge to help reduce traffic congestion in the Capital Region.
07/19-current **SECTION 17 PROJECT**	**MOVEBR TRANSPORTATION AND INFRASTRUCTURE IMPROVEMENTS PROGRAM:** East Baton Rouge Parish, LA. Ms. Gray is the communications lead and public involvement co-lead. She wrote the program's strategic communications plan, created the MOVEBR brand; manages media outreach, public events, and in-person and online stakeholder outreach. The MOVEBR program is the largest transportation and infrastructure initiative in East Baton Rouge Parish history, providing an investment of over $1 billion in capacity projects, existing corridor enhancements, community improvements and traffic signal synchronization.
09/15-12/16 **SECTION 17 PROJECT**	**NICHOLSON CORRIDOR HIGH-CAPACITY TRANSIT SYSTEM:** East Baton Rouge Parish, LA. Ms. Gray served as lead for public and stakeholder outreach. Her responsibilities included development of the TramLinkBR brand, and stakeholder and public outreach activities including workshops, public open house meetings and hearings, and presentations to business, civic and neighborhood organizations. TramLinkBR was a proposed modern streetcar system connecting LSU and Downtown Baton Rouge. It has been converted to a proposed bus rapid transit route by the current administration.
09/19-current	**LOCAL PUBLIC AGENCY DOCUMENTED PLANNING PROCESS FOR DOTD:** Baton Rouge, LA. Ms. Gray was the public outreach consultant for this project. She wrote the plan's public and stakeholder involvement chapters, including strategies for gathering in-person and online public input. She led the development of toolkit templates and resources for to be used by smaller cities, towns and parishes for transportation planning. The project will be piloted in three communities and the consulting team will use lessons learned to revise the final planning document.
12/18-2021	**BATON ROUGE BUS RAPID TRANSIT FEASIBILITY STUDY FOR EAST BATON ROUGE PARISH:** Baton Rouge, LA. Ms. Gray served as public outreach lead. She was responsible for the planning and implementation of stakeholder and public meetings to gather input for proposed bus routes on Nicholson Drive and Plank Road. This project and its funding has been brought into the MOVEBR program for more efficient management where Ms. Gray will continue to manage public engagement strategies for the project.

Firm employed by	**Marmillion/Gray Media, Inc.**		
Name	**Sarah Powell**	Years of relevant experience with this employer	15
Title	**Graphic Designer**	Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization	Bachelor of Fine Arts / 1985 / Graphic Design (graphic and video design)		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Public/Stakeholder 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 years of experience specified in the applicable MPR(s).
	*Sarah Powell provides expertise in graphic design, video production, and website development for Marmillion/Gray Media, including projects for LADOTD, the EBR Mayor's Office of Homeland Security and Emergency Preparedness; Capital Region Planning Commission (CRPC); Imperial Calcasieu Regional Planning and Development Commission (IMCAL); FUTUREBR project; Baton Rouge Loop; Louisiana Department of Culture, Recreation and Tourism; and the Americas' WETLAND Foundation. Sarah and Project Manager Rannah Gray have worked together for more than 20 years, providing a seamless creative process for developing impactful and engaging communications. Ms. Powell's work has been a vital aspect of many successful advertising and public relations campaigns and has helped the firm win numerous national, regional, and local awards such as: The Communicator Awards, Telly awards, Pollie Awards, Lantern Awards, and Addy awards.*
03/09-03/16 **SECTION 17 PROJECT**	**ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR THE BATON ROUGE LOOP PROJECT:** Baton Rouge, LA. Ms. Powell's responsibilities included graphic design and logo design, production of informational videos and handouts for public meetings and presentations, and development of public/stakeholder outreach collateral materials for this Environmental Impact Statement. The Baton Rouge Loop was a proposed by-pass around Baton Rouge to help reduce traffic congestion in the Capital Region.
07/19-current **SECTION 17 PROJECT**	**MOVEBR TRANSPORTATION AND INFRASTRUCTURE IMPROVEMENTS PROGRAM FOR EAST BATON ROUGE PARISH:** Baton Rouge, LA. Ms. Powell's responsibilities include graphics and branding; still photography, videography with drone and Go-Pro cameras; production of short informational videos for press announcements and social media; design of project signs, outreach material and doorhangers to inform neighborhoods of project work; and presentation materials.
09/15-12/16 **SECTION 17 PROJECT**	**NICHOLSON CORRIDOR HIGH-CAPACITY TRANSIT SYSTEM:** East Baton Rouge Parish, LA. Ms. Powell's responsibilities include designing the TramLinkBR project brand, website design and management, production of informational videos, and collateral materials for all public and stakeholder outreach events. TramLinkBR was a proposed modern streetcar system connecting LSU and Downtown Baton Rouge. It has been converted to a proposed bus rapid transit route by the current administration.
09/19-current	**LOCAL PUBLIC AGENCY DOCUMENTED PLANNING PROCESS FOR DOTD:** Baton Rouge, LA. Ms. Powell provided graphic design for the development of a toolkit for use by communities for transportation planning. This project is providing a plan, toolkit, and resources to assist smaller communities conduct in-house planning.
12/18-03/21	**BATON ROUGE BUS RAPID TRANSIT FEASIBILITY STUDY FOR EAST BATON ROUGE PARISH:** Baton Rouge, LA Ms. Powell serves as graphic designer. She designed meeting notices, posters and collateral materials for stakeholder and public outreach and public open house meetings. This study was conducted to determine whether work conducted for a proposed modern streetcar system could be used to develop a bus rapid transit route instead.
04/18-10/18	**ADA TRANSITION PLAN FOR BATON ROUGE PARKS AND RECREATION COMMISSION (BREC):** Baton Rouge, LA. Ms. Powell served as graphic designer. She designed meeting notices, social media posts, posters, and collateral materials for public and stakeholder outreach and public meetings. Her ability to design materials that complemented BREC's existing "Imagine Your Parks" campaign helped give the ADA Transition Plan identity and credibility. The plan provided an evaluation of BREC's facilities, gathered public input to determine priorities and developed a plan to BREC to achieve compliance with the Americans with Disabilities Act. (ADA)

Firm employed by	**Marmillion/Gray Media, Inc.**		
Name	**Ashley Powell**	Years of relevant experience with this employer	5
Title	**Graphic Designer**	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization	B.A. in Visual Arts, Concentration in Graphic Design and Minor from Southeastern Louisiana University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **Public/Stakeholder 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 years of experience specified in the applicable MPR(s).
	*Ashley Powell's experience includes working on social media communications, public outreach, and graphic and web design for projects including MOVEBR, the Commuter Krewe program, TramLinkBR and Bus Rapid Transit projects, the BREC ADA Transition Plan and the MOVE2046 Transportation Plan for the Capital Region. Ashley's responsibilities have included coordinating set-up and logistics for public meetings and workshops, audience building and focus group recruitment through outreach. She provides graphic design for social media posts and project material and assists with production of collateral materials used for public meetings and outreach. She also manages focus groups recruitment and facilitation and assists with video production.*
07/19-Present **SECTION 17 PROJECT**	**MOVEBR PROGRAM MANAGEMENT SERVICES:** Ashley provided graphic design support for all public and stakeholder outreach and marketing and communications documents. She also planned public/stakeholder outreach and meetings and provided support.
09/15-12/16 **SECTION 17 PROJECT**	**EBR NICHOLSON CORRIDOR HIGH-CAPACITY TRANSIT SYSTEM ENVIRONMENTAL ASSESSMENT:** Ashley provided creative branding, realistic renderings, media outreach, website development, stakeholder outreach and public meetings.. Ashley served as a facilitator at land use planning workshops for the TramLinkBR project and provided general support for all aspects of the public outreach efforts.
12/18-03/21	**BATON ROUGE BUS RAPID TRANSIT FEASIBILITY STUDY:** Graphic design and public meeting support. Ashley provided graphic design support and meeting logistics.
04/18-10/18	**BREC ADA TRANSITION PLAN:** Public outreach and public meeting facilitation. Ashley assisted with assuring venues were ADA compliant and staff were prepared to accommodate people of all abilities.
03/17-01/18	**IMCAL (CALCASIEU PARISH) I-210 BRIDGE REDECKING PROJECT:** Public outreach and public meeting support. Ashley assisted with attendee sign-in, audience building, preparation of meeting materials and meeting facilitation.
07/17-current	**CRPC BATON ROUGE TRAVEL DEMAND MANAGEMENT PROJECT:** Graphic design for ridesharing promotions. Ashley provides graphic design for promotions, outreach activities and webinars.
04/15-04/16	**CRPC METROPOLITAN TRANSPORTATION PLAN:** Assisted with public outreach and public meeting facilitation. Ashley assisted with scouting meeting locations to assure accessibility, helped the project team with meeting set-up, attendee sign-in, and meeting facilitation.
08/10-01/12	**CRPC BICYCLE AND PEDESTRIAN SAFETY CAMPAIGN:** Assisted with focus group recruitment and facilitation and video production. Ashley was part of the production team that produced PSAs aimed at young drivers and assisted with recruiting and facilitating a focus group with high school students to determine best ways to reach them with safe driving messages.

Firm employed by	G.E.C., Inc.		
Name	Carlos Perez	Years of relevant experience with this employer	21
Title	GIS Technician	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	B.S. / 1998 / Anthropology; Masters Work, Anthropology, 1998-2000		
Active registration number / state / expiration date	161073 / 07-25-2024		
Year registered 2021	Discipline: GISP		
Contract role(s) / brief description of responsibilities	Role on this Project: **GIS / CADD / Renderings**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Perez is a GIS developer and project manager in the Environmental Department. He has worked extensively with field GPS units, downloading data and creating GIS coverages from GPS Data following field sampling and designing web interfaces for GIS data, including for SHPO and for LDWF, among others. Mr. Perez has experience in both ESRI and Intergraph GIS software in addition to digitizing skills in Microstation and IRAS-C. Mr. Perez is also experienced in programming in Visual Basic for ArcObjects, HTML, Java, ASP.NET, Flex, SQL, ArcGIS Server, and ArcIMS, allowing for greater customization of ESRI and Oracle products. His background in archaeology and Section 106 compliance adds to the diversity of GEC's Environmental Department providing additional insight especially when performing NEPA impact analyses, which include cultural resources.*
01/02-12/10	**700-99-0266 / LADOTD TRANSPORTATION INFRASTRUCTURE MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA.** *GIS Analyst/Developer*- GIS was used for analysis and display of 55 road segment improvement projects throughout the state of Louisiana. Potential environmental impacts were identified through digitizing, georeferencing, GPS, ground-survey, and the use of aerials. Large sets of cad-based data were converted to GIS and used for analysis. Georeferenced Soil Survey Maps were used in digitizing and analyzing prime and unique farmlands. GIS was used to aid in the preparation and approval of the environmental documentation and preparation of environmental permit applications. An ArcIMS Website was also implemented for the completed data sets.
01/14-05/17 **SECTION 17 PROJECT**	**H.004987 / U.S. HIGHWAY 190/COLLINS BOULEVARD WIDENING (US-190B – LA 25) ENVIRONMENTAL ASSESSMENT: Covington, LA.** *GIS Analyst*- Mr. Perez aided in the preparation of the Environmental Assessment (with FONSI) and Line, and Grade Study to widen approximately 3 miles of U.S. 190 in Covington, a project that included the construction of new bridges across the Bogue Falaya River. Notably, the project proposed the elimination of all signalized intersections within the project corridor and replacement with roundabouts. Mr. Perez managed the GIS database of all characteristics of the study area, created renderings for public and stakeholder outreach, and aided in the public and stakeholder outreach activities.
01/14-05/16 **SECTION 17 PROJECT**	**H.004983 / U.S. HWY. 11 WIDENING (LAKE PONTCHARTRAIN TO SPARTAN DRIVE) ENVIRONMENTAL ASSESSMENT: Slidell, LA.** *GIS Analyst* - Mr. Perez aided in the preparation of the Environmental Assessment (with FONSI) and Line and Grade Study for this highway-widening project. Mr. Perez managed the GIS database of all characteristics of the study area, created renderings for public and stakeholder outreach, and aided in the public and stakeholder outreach activities. He assisted in conducting regulatory Solicitations of Views and preparing the EA and supporting reports.
10/03-06/13 **SECTION 17 PROJECT**	**700-28-0004 / US 71/165 FORT BUHLOW BRIDGE AND APPROACHES: Alexandria, LA.** *GIS Analyst* - Mr. Perez managed and developed the GIS database, permit drawings, line and grade figures, renderings for all stages of the project including the feasibility study, Environmental Assessment with FONSI, preliminary and final design plans, and construction phases. GEC served as the prime consultant for LADOTD to complete all project development activities for this Red River Bridge replacement project. Work efforts included feasibility study, line and grade, traffic studies, EA, preliminary and final bridge, roadway, and electrical plans, and construction support.
12/19-04/20	**LASAFE-AIRLINE AND MAIN COMPLETE STREETS: St John the Baptist Parish, LA.** *GIS Analyst* - Mr. Perez imported CAD data into a GIS for use in wetland delineation. GPS units were prepared to collect field data on wetlands, catch basins, and drainage along Airline Hwy. The field data was processed and used to prepare permitting documents. He managed the GIS database containing the resource inventory throughout the project.

Firm employed by	G.E.C., Inc.
Name	**Carlos Perez** *continued resume*
02/17-Present	**THIRD PARTY ENVIRONMENTAL IMPACT STATEMENT (EIS) FOR THE MID-BARATARIA SEDIMENT DIVERSION (MBSD), CPRA: Plaquemines, LA.** *Project Manager* -- Mr. Perez serves as GIS Analyst and Sharepoint Designer on the GEC Team leading development of a Third-Party EIS for the MBSD Project proposed by CPRA. The EIS is being prepared under the direction of USACE, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant to Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. The Third-Party EIS will assess the potential adverse and beneficial impacts associated with the construction and operation of the project. In addition to informing USACE decisions, the EIS will be used to inform decisions that the DWH NRDA LA TIG may make regarding restoration planning under OPA. This highly publicized and controversial project includes seven cooperating agencies, 10 commenting agencies, and 11 consulting tribes for the EIS and has been placed on the Permitting Dashboard under the FAST-41 process.
2018-Present	**LADOTD AND SHPO GIS FOR CULTURAL RESOURCES: Statewide, LA.** *GIS Specialist* - As a GIS Specialist, Mr. Perez designed, installed, and developed a geodatabase and ArcIMS web interface for all cultural resources recorded by the SHPO of Louisiana. Paper forms retained by the Divisions of Archaeology and Historic Preservation were scanned and hyperlinked to the individual features with the geodatabase. Mr. Perez is currently contracted by the SHPO to update the services and viewer to an ArcGIS Server format on a virtual server, aid in license management, provide training and technical support, and to help develop a workflow for obtaining new GIS data from outside agencies during the Section 106 review process.
2021-Present	**GEO-SPATIAL OYSTER HABITAT SUITABILITY TO INFORM PLACEMENT OF PROGRAMMATIC OYSTER RESTORATION PROJECTS: Coastal LA.** *GIS Analyst* - The purpose of this ongoing project is to develop a science-based, data-driven, decision-making platform to inform the LDWF's efforts to rehabilitate Louisiana oyster resources, utilizing a multifaceted approach to enhance resilience of recovering oyster populations while avoiding areas not suitable for current and future oyster production. The project identifies suitable areas for various restoration technique(s) most likely to succeed at expanding oyster habitat and providing for their long-term sustainability. Mr. Perez developed an ArcGIS geospatial oyster Habitat Suitability Index (HSI) to integrate foreseeable environmental scenarios to determine suitable locations for oyster restoration efforts.
08/19-01/20	**ST. TAMMANY PARISH MASTER PLAN: St Tammany Parish, LA.** *GIS Analyst* - Mr. Perez created and continually updated a geodatabase of Repetitive Loss Data in St. Tammany Parish using ArcMap to edit planned, existing, and completed flood structures. Documents containing background information on each project were placed in a file structure and linked. Mr. Perez prepared the deliverable and provided analysis for use by the client.
2006-2014	**ENVIRONMENTAL ASSESSMENTS FOR MANAGEMENT ACTIONS IN NATIONAL FORESTS, USACE NEW ORLEANS DISTRICT AND VICKSBURG DISTRICT (ECOSYSTEM RESTORATION PROJECT): Mississippi and Louisiana.** *GIS Analyst* - In addition to map creation for management actions in the Tombigbee National Forest (Jones Creek and Mill Creek Analysis Units) and Kisatchie National Forest (All Ranger Districts), watershed analyses were also conducted. Delineation of watersheds was conducted within a GIS environment using digital elevation models (DEMs), which were also used to provide necessary slope information.

Firm employed by	G.E.C., Inc.		
Name	**Robert Hamilton**	Years of relevant experience with this employer	<1
Title	Field Biologist	Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization		B.S. / 2003 / Biology	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Role on this Project: **Threatened and Endangered Species**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
14 years of experience	*Mr. Hamilton joined GEC with 14 years of experience as a biologist and will participate in field investigations and preparing reports. During his career as a biologist, Mr. Hamiliton has been a volunteer field biologist with the New Jersey Conservation Foundation participating in herpetological resource inventories, presence/absence surveys, critical habitat identification, creation and active management, capture, radiotelemetry, and critical habitat identification of state endangered timber rattlesnakes. He is experienced with amphibian migration surveys, vernal pool cataloging, mist-netting surveys for little brown bats, big brown bats, and Indiana bats. Mr. Hamilton is certified as Qualified Venomous Snake Monitor, NJ and Qualified Rattlesnake Monitor, PA.*
11/22-Present	**PORT OF NEW ORLEANS, LOUISIANA INTERNATIONAL TERMINAL (LIT) ENVIRONMENTAL ASSESSMENT AND PERMITTING: New Orleans, LA.** *Environmental Specialist* - GEC is the prime consultant in developing the Environmental Assessment, permitting, and supporting documents for the Proposed LIT Port in Violet, LA on behalf of the Port of New Orleans. GEC is preparing detailed impact analysis for the proposed terminal in accordance with NEPA and is conducting a range of studies in support. Mr. Hamilton is serving as an Environmental Specialist and is responsible for leading the efforts of both Terrestrial Wildlife and **Threatened and Endangered Species** services in support of the EA.
09/22-Present	**NATURAL HERITAGE INVENTORY, NAVAL AIR STATION/NAVAL AUXILIARY LANDING FIELD: Fentress, Virginia Beach, and Chesapeake, VA.** *Field Biologist* - The objective of this contract is to determine the presence of state or federally listed threatened or endangered species or other species of concern (e.g., watchlist, candidate, proposed for listing, etc. species) that may occur at NAS Oceana and NALF Fentress, including terrestrial and aquatic species. Mr. Hamilton is leading the effort to perform on-site field surveys, spanning across all seasons (summer, fall, spring, and winter), as appropriate. Surveys are completed using approved time of year specific survey methodologies for anticipated species and communities of concern. He performs research in obtaining the most current listings of species and communities from the appropriate federal and state agencies, identifies what species could be found on the installation, and if the installation hosts suitable habitat conditions for the species. He develops GIS maps, creates inventories and classifications, and performs research, all culminating into a final **threatened and endangered species** report and appropriate permits.
2022-Present	**COASTAL LOUISIANA:** Mr. Hamilton is currently serving as the principal biologist in Coastal Louisiana, performing habitat surveys, **threatened and endangered species surveys**, and natural resource inventories. He is performing dune and plant community delineations and xeric coastal rare and invasive species surveys as a subconsultant to ILSI.
2013-2023	**WILDLIFE SPECIALISTS, LLC:** Field Biologist/Project Coordinator - Prior to joining GEC, while with Wildlife Specialists, LLC, Mr. Hamilton's responsibilities covered pre-construction analysis and monitoring active construction sites to minimize impact on natural resources and maintain regulatory compliance. He performed **threatened and endangered species surveys** and presence/absence wildlife surveys for many species. Some of these species include the Allegheny woodrat, eastern small-footed bat, red-bellied cooter, spotted turtle, eastern black rail (methods included visual surveys, camera-trapping, call-response, baited trapping, and acoustic detection). He was also involved with surveying, active monitoring and relocation of the timber rattlesnake and eastern copperhead; natural resource inventories focusing on herpetofauna and avifauna as well as development of conservation/management plans for herpetofauna and avifauna. He has analyzed population demographics, trends, and habitat use across multiple years and location for various wildlife. Other areas of expertise include reporting, GIS mapping, data analysis, technical consultation, and wildlife photography.

Firm employed by	**Gulf South Research Corporation**		
Name	**Christy Guempel**	Years of relevant experience with this employer	5
Title	GIS Analyst	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	B.S. / 2003 / Geography		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **GIS Analyst**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience in the applicable MPR(s).
	*Ms. Guempel has over 14 years of professional experience as a geographic information systems (GIS) analyst and 7 years of professional experience as a GIS supervisor/trainer. Ms. Guempel's environmental background includes working on projects involving coastal restoration, cultural resources, emergency response, environmental assessment, environmental remediation, litigation support, planning, permitting, wetland delineations, and wildlife habitat. Her responsibilities include geodatabase design and data entry, coordinate conversion, cartographic design, georeferencing, digitizing, spatial analysis, image interpretation, and supervised classification. Ms. Guempel is proficient in ESRI's suite of software version 10.6 and below. She has experience with light detection and ranging (LiDAR) analysis using Global Mapper software. She is also experienced with GPS equipment/software, such as ArcGIS Collector, Pathfinder Office, and Terrasync.*
07/21-12/22	**SENIOR GIS ANALYST. ENVIRONMENTAL SUPPORT FOR THE LAREDO SOFT SIDED FACILITY (SSF) IN LAREDO:** Webb County, Texas. GSRC was contracted to conduct a phase I cultural resources survey of approximately 31 acres in Laredo, Texas. Ms. Guempel georeferenced and digitized previous archeological investigations and surveys within one mile of the survey area. She also georeferenced a series of historical aerials showing the survey boundary. She processed all Trimble GPS data collected in the field. Ms. Guempel created the maps presented in the report.
10/20-02/22	**SENIOR GIS ANALYST. LOUISIANA PHASE I ARCHAEOLOGICAL INVESTIGATION OF 54 ACRES FOR THE LOUISIANA CORRECTIONAL INSTITUTE FOR WOMEN (LCIW) IN IBERVILLE PARISH:** St. Gabriel, Louisiana. GSRC was contracted to conduct a cultural resources survey of 54 acres of land for proposed construction of the Louisiana Correctional Institute for Women (LCIW) on behalf of Grace Hebert Curtis Architects and U.S. Department of Homeland Security Federal Emergency Management Agency (FEMA), Region VI. Ms. Guempel processed the shovel test pit GPS data. Following field notes and hand drawn plots, she digitized the shovel test pits for the delineation of the archaeological site found on the property. She georeferenced and digitized the previous archaeological survey and sites conducted within a one-mile buffer of the project area. She created the figures presented in the report.
04/19-01/21	**SENIOR GIS ANALYST. PHASE I CULTURAL RESOURCES SURVEY OF 4,017 ACRES FOR THE BIENVILLE NATIONAL FOREST SERVICE:** Smith, Newton, and Scott County, Mississippi. GSRC was contracted by the United States Department of Agriculture Forest Service to conduct an intensive Phase I cultural resources survey of approximately 4,017 acres in Smith, Newton, and Scott Counties, Mississippi within the Bienville National Forest Service. Ms. Guempel was responsible for GIS analysis, cartographic design, development of all maps for the report, and supervised the completion of the GIS geodatabase.
09/18-11/19	**SENIOR GIS ANALYST. PHASE I CULTURAL RESOURCES SURVEY FOR THE BIENVILLE NATIONAL FOREST SERVICE:** Scott County, Mississippi. GSRC was contracted by the United States Department of Agriculture Forest Service to conduct an intensive Phase I cultural resources survey of 4,980 acres among 81 units across 21 Compartments within the Bienville National Forest in support of the proposed Timber Sale Project in Scott County, Mississippi. Ms. Guempel provided GIS analysis of the field data, cartographic design, set-up the geodatabase schema, and created all maps presented in the report. She also supervised the completion of the GIS geodatabase deliverable.

Firm employed by	**Arcadis**		
Name	**Joshua Chatelain**	Years of relevant experience with this employer	15
Title	**Senior Digital Data Analyst**	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		B.S. / 2002 / Geography	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Role on this Project: **GIS/CADD**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Chatelain has more than 20 years of experience using Geographic Information Systems (GIS) for planning and analysis in the transportation engineering field. He is experienced in performing infrastructure mapping and assessment, transportation planning and analysis, data acquisition, field survey oversight, and providing GIS support for ITS projects. Experience with ESRI ArcGIS application stack and data driven applications include: ArcMap, ArcCatalog, ArcInfo, ESRI Roads and Highways, Event Editor, ArcGIS Data Reviewer, ArcGIS Workflow Manager, ArcGIS Pro, ArcGIS 3D Analyst, ArcGIS Spatial Analyst, ArcGIS Geostatistical Analyst, ArcGIS Network Analyst, Production Mapping, ArcPad, ArcGIS Collector, ArcGIS Model Builder, ArcGIS Online, ArcGIS Enterprise, ArcGIS Web App Builder, AutoCAD, Enterprise Databases, ArcSDE, Python, ArcGIS Server, and SQL Server Management Studio.*
06/18 – 10/19	**I-10 QUEUE WARNING SYSTEMS ENGINEERING ANALYSIS, LADOTD:** Baton Rouge, Louisiana/H.013482.1. Probe Data and GIS Analyst. Developed the first of its kind ITS Systems Engineering Analysis involving the evaluation of a Queue Warning system on I-10 eastbound from LA 77 to I-110. The analysis required processing and evaluation of traffic probe data as well as LADOTD's crash data using GIS and electronic dashboarding tools to identify existing traffic conditions.
01/14 – 01/18	**RETAINER CONTRACT FOR AN ENTERPRISE LRS SYSTEM DEVELOPMENT LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT:** Statewide, Louisiana. GIS Analyst. Responsible for the implementation of an Enterprise Linear Referencing System (LRS) using ESRI Roads & Highways. Participated in discovery meetings, development of existing conditions report, development of initial R&H database model and implementation of a Statewide Enterprise LRS. Local point of contact and associate project manager for the retainer contract.
02/13 – 07/14	**ENTERPRISE LRS BUSINESS PROCESS REVIEW AND DATABASE DESIGN ARIZONA DEPARTMENT OF TRANSPORTATION:** Phoenix, Arizona. GIS Analyst. Worked as part of the project team to design and implement an Enterprise Linear Referencing System (LRS) using the ESRI Roads and Highways platform (RNH). Evaluated the needs of the LRS system within ADOT. Tested tool sets, geoprocessing functions, models, datasets, schemes, and other elements within RNH to identify practical methods of migration to RNH from ADOT's current system. Modified, modeled, processed, and prepared datasets for migration into RNH.
01/10 – 01/11	**CITY-PARISH ENTERPRISE LRS SYSTEM DEVELOPMENT, CITY OF BATON ROUGE/PARISH OF EAST BATON ROUGE:** Baton Rouge, Louisiana. GIS Analyst. Responsible for the implementation of an Enterprise Linear Referencing System using Geomedia and Oracle Spatial. Conducted business requirements and needs assessment, design, build, and implementation of a parish wide LRS.
01/21 - Present	**LADOA GENERAL SERVICES STAFF AUGMENTATION CONTRACT, LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT:** Statewide, Louisiana. GIS Configuration Engineer. Responsible for supporting the GIS/Mapping (Section 21) in continuing development of the DOTD Enterprise GIS Program. Worked to improve business process workflows, and provided training and oversight to staff members. Developed ETL (extract, transform, load) processes, scripts, and geoprocessing tools to generate transportation data products and accomplish Section 21 goals. Worked with Section 21, Highway Safety Section, and CARTS (LSU Center for Analytics & Research in Transportation Safety) focus groups to design and develop a linear referenced enterprise Intersections data model to meet the needs of various stakeholders at DOTD. Developed database schemas, datasets, tables, tools, and methodologies to support Intersections data migration and development, and demonstrated Intersection Program goals and concepts to stakeholders across the agency.

Firm employed by	Arcadis		
Name	Sothon Men	Years of relevant experience with this employer	19
Title	Staff Designer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	AA / 2005 / CADD Design / Southeast College of Technology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: **GIS/CADD**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	*Mr. Sothon Men is staff designer with more than 25 years of experience with CADD. His expertise includes computer aided drafting and design (CADD) and Microstation in all aspects of civil, structural, and electrical projects. He has prepared CADD drawings and plans for more than 200 civil/environmental/ structural design projects.*
10/15 – 01/18	**NORTH BAYOU BLACK DRIVE, HANSON CANAL BRIDGE, LADOTD, OFF-SYSTEM HIGHWAY BRIDGE REPLACEMENT PROGRAM:** Terrebonne Parish, LA. CADD Designer. Provided all necessary engineering and related services required for developing plans for the replacement of an off-system highway bridge. Duties included the calculation of earthwork quantities using Land Desktop software, plan and profile, cross-sections, and the merging of drawings into MicroStation software.
09/08 – 07/10	**EL CAMINO EAST/WEST CORRIDOR ENVIRONMENTAL ASSESSMENT, LADOTD:** Natchitoches Parish, LA. CADD Technician. Provided all CADD-related services for project drawing preparation. Arcadis prepared an Environmental Assessment for the proposed widening of an 8.28-mile section of LA 6 in Natchitoches Parish between I-49 and Robeline.
01/11 – 01/12	**SEABROOK SECTOR GATE COMPLEX, USACE NEW ORLEANS DISTRICT HURRICANE PROTECTION OFFICE (HPO):** New Orleans, LA. Lead Technician. Involved in developing construction plans for a 95-foot wide sector gate structure and two vertical lift gates (100-year level of protection), T-wall tie-ins, and cofferdam system. Design software packages were Bentley Microstation and Bentley GeoPack.
12/10 – 4/12	**US 84 IMPROVEMENTS FROM SABINE RIVER TO LA 5, LADOTD AND TXDOT:** Logansport, LA. Design Technician. Preparation of all structural CADD drawings including general plan layout, plan and profile, girder layout, and all substructure details.
01/16 – 01/18	**TRIBOROUGH BRIDGE AND TUNNEL AUTHORITY OF NEW YORK METROPOLITAN TRANSPORTATION AUTHORITY:** New York. Design Technician. Provided design support on a Design-Build project for the New York Transit Authority. Judlau Construction contracted Arcadis to design primary deployable flood protection barriers and secondary closure gates for the tunnels. Bentley Microstation was used.
02/11 – 05/12	**SH 31 BRIDGE DESIGN, TXDOT:** Waco, Tx. CADD Technician. Responsible for structural design, plans preparation and quantity estimates as per Load and Resistance Factor Design (LRFD)specifications for six TxDOT bridges on Highway SH 31 (over Navasota River, overpasses over FM 1330 & FM 339). Bridge lengths varied from 130 – 240 ft and featured pre-stressed U beams & Type C girders on concrete bents founded on drilled shafts.
05/08 – 06/10	**SH 195 BRIDGE DESIGN, TXDOT:** Williamson County, Texas. CADD Technician. Responsible for QA/QC of design calculations (LRFD), plans and cost estimates for a roadway overpass featuring twin bridge structures with skewed spans set in a horizontal curve.

Section 17

The GEC Team has extensive experience in every required aspect of this project and is staffed to adequately serve LADOTD with the appropriate number of resources.

	INDEX OF INCLUDED PROJECTS BY CONTRACT RELEVANCE	NEPA/Env. Impacts Analysis	Line & Grade/ Conceptual Design	Road/Bridge/ Interchange Design	Public Outreach	Wetlands/ T&E/ BA/ Permits	Phase I ESA	Traffic/ Safety Study	IJR/IMR	Air/Noise	Cultural Resources	CSRP
GEC	H.004987 US 190/Collins Blvd. Widening EA	X	X	X	X	X	X					
	H.004983 US Highway 11 Widening EA	X	X	X	X	X	X	X				
	700-28-0004 US 71/165 Fort Buhlow Bridge and Approaches EA	X	X	X	X	X	X					
	H.013897 I-10 College Drive Flyover	X	X	X	X	X			X			
	H.003074 I-10, Williams Blvd. to Veterans Blvd.		X	X								
Arcadis	H.003771.2 I-10 (LA 73, LA 74, & LA 429) Interchange Feasibility Studies	X	X	X				X	X			
	H.002397.2 Pete's Highway Interchange IJR and EA	X	X	X	X	X	X	X	X	X		
	H.000688.2 US 11 EA	X	X	X	X	X	X	X		X		
Marmillion Gray	Baton Rouge Loop Tier 1 EIS	X			X							
	MovEBR Program Management				X							
	Nicholson Corridor High Capacity Transit System				X							
Lakvold	H.009932 US 80 Widening: Vancil Road to Well Road EA	X										X
	H.004791 Belle Chasse Bridge & Tunnel	X			X							X
	H.011670 I-10/Loyola Interchange Improvements EA	X										X
GSRC	H.000665 US 165 UP Railroad Overpass Near Bonita, Phase I CRS										X	
	Environmental Compliance Assistance England Airpark										X	
	Archaeological Survey Requirements Phase I Fort Polk										X	

Colors indicate the assigned scope items for I-10 at LA 74
"x" indicates if the scope item was performed as a part of the project shown on the project sheets

GEC

17. Firm Experience

Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Environmental, Road, Bridge, Planning ****
Project Name	**US 190 / Collins Boulevard Widening (LA 25 to US 190B) Environmental Assessment**	Firm responsibility (prime or sub?)	Prime
Project Number	H.004987	Owner's Name	New Orleans Regional Planning Commission
Project Location	Covington, Louisiana	Owner's Project Manager	Jeff Roesel
Owner's address, phone, email	10 Veterans Blvd., New Orleans, LA, (504) 483-8528, jroesel@norpc.org		
Services commenced by this firm (mm/yy)	01/14	Total consultant contract cost ($1,000's)	$ 426
Services completed by this firm (mm/yy)	05/17	Cost of consultant services provided by this firm ($1,000's)	$ 426

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

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

**This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

GEC provided professional consulting services for an **Environmental Assessment (EA) with a Finding of No Significant Impact (FONSI), and Line and Grade Study** for the widening of US 190 in Covington in accordance with LADOTD, FHWA and NEPA standards. The project corridor spans approximately 2.7 miles and consisted of two travel lanes and a center turn lane from south of LA 25 to north of the two-lane US 190 bridge over the Bogue Falaya River in the south. The project corridor included 20 intersections, 9 signalized and 11 unsignalized, and did not provide areas designated along the roadway for bicyclists and pedestrians. The purpose and need of the project was to widen the corridor to improve capacity and reduce congestion and delays.

GEC provided an EA with FONSI and line and grade study to widen US 190 in Covington, a 2.7 mile corridor, in accordance with LADOTD, FHWA, and NEPA standards. Services included public outreach, traffic engineering, road and bridge design, and design of 10 roundabouts.

EVALUATION NARRATIVES FROM THE LADOTD PROJECT MANAGER:

"NEPA document quality was very good and approved by FHWA without substantive comments or additions. Jeff Robinson and his group at GEC worked through numerous project changes and timeline starts and stops with a "can-do" attitude. GEC handled and coordinated issues that arose, including changes in right-of-way requirements and additional landowner outreach. Excellent coordination with DOTD Environmental."

"Barry McCoy of GEC has exceptional knowledge of procedures for field surveys and needs little to no guidance from DOTD. Submittals required no major edits prior to submittal to regulatory agencies."

GEC provided development of a Purpose and Need statement, agency coordination, Solicitation of Views, and prepared environmental documentation. The report addressed wetlands mitigation and permitting, land use and community charrette, economic activities, historic, cultural social and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, demographics and environmental justice, relocations of homes and businesses, contaminated sites and required permits, and endangered or threatened species and their habitat. GEC staff obtained, organized, and reviewed engineering data including topographic, parish and state highway maps as well as aerial photography; reviewed existing traffic data, accident data, highway plans and other structural data, hydrologic and hydraulic data, utility information, previous studies and reports, existing survey data. GEC performed traffic impact analysis, collection of daily traffic counts, peak period traffic volumes, turning movements and vehicle data counts, crash data review, conceptual design; performed wetland delineations and permitting; preliminary quantities and cost estimates; preparation of final report and recommendations our staff developed, evaluated and analyzed two alternative alignments, and established roadway; geometry and bridge design criteria; bridge structure sections; intersection/interchange layouts. GEC facilitated all public outreach activities including public meetings, public hearing, and stakeholder and agency outreach. **The EA was approved and LADOTD and FHWA issued a FONSI.**

The alternatives evaluated proposed to widen the roadway to include four 12-ft. travel lanes separated by a 26-ft.-wide median. A 7-ft. wide paved shoulder and a curb and gutter located along both sides of the roadway. The US 190 bridge over the Bogue Falaya River was proposed to be widened to four travel lanes, with a section of the roadway between the bridge and LA 437 to include five 12-ft. travel lanes to extend a right turn lane onto LA 437. **Ten roundabouts replaced signalized intersections to facilitate traffic flow and improve safety.** A multi-use pedestrian/bicycle path was proposed along the project corridor from LA 25 to the existing Tammany Trace where it crosses the Bogue Falaya River.

Firm Members Involved: Jeffrey Robinson, Laura Carnes, Barry McCoy, Carlos Perez, Jason Avant, Nicole Forsyth

Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Environmental, Planning, Road ****
Project Name	**US Hwy 11 Widening (Lake Pontchartrain – Spartan Drive) Environmental Assessment**	Firm responsibility (prime or sub?)	Prime
Project Number	H.004983	Owner's Name	New Orleans Regional Planning Commission
Project Location	Slidell, Louisiana	Owner's Project Manager	Jeff Roesel
Owner's address, phone, email	10 Veterans Blvd., New Orleans, LA, (504) 483-8528, jroesel@norpc.org		
Services commenced by this firm (mm/yy)	01/14	Total consultant contract cost ($1,000's)	$ 321
Services completed by this firm (mm/yy)	05/16	Cost of consultant services provided by this firm ($1,000's)	$ 321

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.
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The project included the addition of lanes within limited right-of-way to improve traffic flow and provide access management improvements. GEC's design maintained access to residential driveways and recommended a multi-use path for bicycles and pedestrians.

As the prime consultant, GEC prepared an **Environmental Assessment (EA), Line and Grade Study, Environmental Checklist, Summary of Mitigation and Permitting, Finding of No Significant Impact (FONSI), engineering plans, and related documents** for the widening of US 11 from Lake Pontchartrain to Spartan Drive in Slidell, a distance of approximately 2.8 miles. EA documents prepared were in accordance with LADOTD, FHWA, and NEPA standards and include line and grade plans comprising geometric design, preliminary horizontal and vertical alignment, typical sections and drainage plans. Through the studies, it was determined US 11 experienced considerable congestion, poor operational conditions, and did not provide areas designated for bicyclists or pedestrian access. **The purpose of the project was to increase capacity and decrease congestion along the designated corridor.**

Two variations of pedestrian/bicycle facilities were considered in the Build Alternatives, and neither would require the acquisition of additional ROW. The preferred alternative proposed continuous bicycle lanes and pedestrian facilities on the outside of the shoulders in the north- and southbound shoulders. It was preferred because it was continuous in both directions throughout the length of the project, provides a uniform grade for bicyclists, offers the potential for future connectivity, provides a safe area for pedestrians to walk the entire length of the project, and because it presents less potential for conflict points with traffic entering/exiting the large number of driveways on the east side of the roadway (97 in total). GEC performed corridor surveys, collected accident data, traffic counts and signalized intersection inventories, and performed signal timing/optimization studies. GEC performed an alternatives analysis and a **Line and Grade Study** and developed four alternatives, which was narrowed down to two alternatives for further consideration in the EA report, including two 12-ft. travel lanes, 10-ft. paved shoulders, curbs and gutters, and bicycle facilities. The proposed travel lanes were separated by a combination of raised medians with U-turns and new access management features implemented at intersections to facilitate traffic flow. GEC's design included two roundabouts at Carr Drive and Eden Isles Drive. The project also incorporated construction plan development to raise U.S. Hwy. 11 approximately 10-ft. at its intersection with a flood protection levee.

GEC performed all environmental surveys, environmental inventory, performed a Phase I Environmental Site Assessment, conducted a wetlands delineation and threatened and endangered species survey and report, produced a wetlands findings report, developed mitigation measures, and prepared all permit drawings and applications. The Big Branch Marsh National Wildlife Refuge was located within 0.25-miles of the project and was considered a Section 4(f) Resource. GEC maintained communication with SHPO and LDWF throughout the project and was able to avoid any impacts to the Section 4(f) property. **The final report addressed wetlands mitigation and permitting, land use and community character, economic activities, historic, cultural, and recreational resources, Sections 4(f) and 6(f), noise and air impacts, floodplains, farmland, demographics and environmental justice, relocations of homes and businesses, contaminated sites and required permits, and endangered or threatened species and their habitat.** GEC coordinated all stakeholder and public outreach activities, including developing the purpose and need statement, performing agency coordination, developing Solicitation of Views, and hosting two public meetings and a public hearing.

Firm Members Involved: Jeffrey Robinson, Laura Carnes, Carlos Perez, Barry McCoy, Jason Avant, Nicole Forsyth

Firm Name	**G.E.C., Inc.**		Past Performance Evaluation Discipline(s)*	**Environmental, Road, Bridge, Planning, Traffic**	**
Project Name	**US 71/165 Fort Buhlow Bridge and Approaches Environmental Assessment**			Firm responsibility (prime or sub?)	Prime
Project Number	700-28-0004		Owner's Name	LADOTD	
Project Location	Alexandria/Pineville, Louisiana		Owner's Project Manager	Joechim Umeozulu, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1386, umeozulu@la.gov				
Services commenced by this firm (mm/yy)	09/95		Total consultant contract cost ($1,000's)	$ 9,400	
Services completed by this firm (mm/yy)	06/13		Cost of consultant services provided by this firm ($1,000's)	$ 9,000	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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GEC served as the prime consultant for LADOTD to complete all project development activities for this Red River Bridge replacement project. Work efforts included **feasibility study, line and grade, traffic studies, environmental assessment (EA), preliminary and final bridge, roadway, and electrical plans, and construction support.**

GEC performed bridge feasibility, line and grade study, traffic study, and an environmental assessment complete with a FONSI (Finding of No Significant Impact) for this $80 million project. Preliminary and final bridge and roadway plans were prepared and followed with construction engineering support during the construction phase.

GEC developed a **traffic study and the Line and Grade Report**, which involved the analysis of conceptual plans and sections for a new bridge spanning the Red River as well as general bridge plans for an overpass over the KCS Railroad. Alternate designs utilizing precast, pre-stressed concrete girder spans, steel girder spans, and segmental concrete box girder spans were developed. As a result of the traffic study, which showed a disparate traffic accident history at one location, GEC relocated a local roadway and intersection (Rainbow Drive). Based on the bridge study and in conjunction with LADOTD, a bridge configuration for final design was chosen.

GEC coordinated with all agencies and stakeholders, prepared solicitation of views, purpose and need, performed all environmental surveys, developed the environmental inventory, conducted public and stakeholder meetings, conducted a wetlands delineation, produced a wetlands findings report, developed mitigation measures, and prepared all permit drawings and applications including for USACE, The Red River Waterway Commission, USCG, and railroads. GEC also was responsible for scenic rivers class B application, floral and faunal communities, threatened and endangered species surveys, Phase 1 ESA and coordination, archaeological and historical resources including 4(f) properties, and all other environmental resources. GEC conducted a **public meeting and public hearing, published the Final EA Report, and received a FONSI**.

The final bridge design consists of twin bridges, approximately 3,005-ft. long, crossing the Red River in the northbound and southbound directions of US 71/165. The final design uses a combination of Type BT pre-stressed girder spans, simple steel plate girder spans, and three-span continuous steel plate girder units spanning the Red River. The simple span steel girder bridge is 225-ft. long, has a girder web depth of 8-ft., and crosses an existing levee. The actual Red River Crossing is accomplished with the three continuous steel spans. In plan, girders transitioned from a parallel straight girder configuration to a curved splayed configuration. Specially designed rocker bearings help accommodate bridge movements. The main river supports consist of column bent caps founded on single massive continuous piers supported by an array of 188, 24" diameter steel pipe piles. In addition to preparing detailed construction documents for the Red River Bridge replacement project, GEC also provided construction support for the project. Construction of the Red River Bridge project at Fort Buhlow was completed successfully in 2013.

Firm Members Involved: Jeffrey Robinson, Barry McCoy, Carlos Perez

Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Environmental, Road, Bridge, Traffic, Other (Electrical) ****
Project Name	**I-10 & I-12 College Dr Flyover Ramp Design-Build**	Firm responsibility (prime or sub?)	Prime
Project Number	H.013897	Owner's Name	LADOTD
Project Location	Baton Rouge, Louisiana	Owner's Project Manager	Peggy Jo Paine, PE
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, Peggy.paine@la.gov, (225) 379-1065		
Services commenced by this firm (mm/yy)	08/20	Total consultant contract cost ($1,000's)	$ 6,079
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$ 6,079

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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The BOH/GEC Team was selected to provide **road/bridge design, environmental, and engineering services** for this **interchange** Design-Build contract. **GEC implemented an innovative design that addressed impacts to surrounding areas that was unforeseen in previous studies and design, which simplified the traffic movement through a reduced footprint versus previous conceptual alternatives.** This design further reduced the footprint established by NEPA documentation. The Team's design improves the flow of traffic and safety of the I-10 & I-12 College Dr Flyover Ramp Design-Build Project by improving the I-10/I-12 merge through the elimination of lane changes that must occur when I-10 WB traffic exits at College Drive. Our design achieves this by realigning the two existing I-12 WB through lanes to more closely follow the I-12 EB existing alignment, completely replacing the I-10 WB Overpass Bridge with a new structure at a bridge width which will accommodate both the I-10 WB through lanes and the I-10 WB College exit ramp, and utilizing the existing I-12 WB pavement for the I-12 WB College Drive exit ramp. Improvements to the I-12/I-10 exit lane with College Drive intersection are also included.

GEC introduced a new design concept that was unforeseen in previous studies, which simplified the traffic movement through a reduced project footprint versus previous conceptual alternatives.

GEC provided environmental compliance plans and permitting services, including adhering to and updating **NEPA Documentation**, environmental mitigation, wetland mitigation, SWPPP, tree impact plan, and permit modification services. GEC also revised the existing network study and **conceptual alternatives analysis (line and grade alternatives)**, ROW acquisition plan, hurricane preparedness and evacuation plan, safety plans, and the **Interchange Modification Report (IMR)**. GEC also provided public/stakeholder outreach and conducted public meetings.

GEC is the task lead for road and bridge design, and designed the widening of the I-10 westbound bridge over Ward Creek. This bridge structure is comprised of three 55' long simple spans composed of rolled steel girders with a cast in place concrete deck.. GEC's design services include the rehabilitation of the existing bridge and replacement of the deck joints. The project required that 5 lanes of traffic be maintained at all times though this heavily traveled corridor. GEC staff developed the **bridge plans to construct the widening and rehabilitation in multiple phases in order to maintain the 5 lanes of traffic**. GEC's design of the bridge also accommodates a sound barrier. GEC provided the **roadway construction plans** for this project and was responsible for the **geometric layout** for the entire project, ensuring conformance to DOTD and AASHTO standards. GEC provided **hydraulic design** which included the design of several subsurface drainage systems and cross drains. GEC also performed hydraulic channel analysis to ensure the project did not negatively impact the surrounding areas. An **opinion of probable cost** for the project were also calculated by the GEC team and provided to the contractor. In addition to bridge and roadway design, GEC completed a photometric report and lighting plans for the design-build project. The lighting design consists of both high mast and low mast lighting. This requires the review of engineering shop drawings and equipment submittals from the electrical contractor. Through the design-build process, GEC has also been tasked with construction engineering and inspection services for this project. Construction for this project has begun, with an estimated completion of summer 2024.

Firm Members Involved: Cary Bourgeois, PE, Sherri LeBas, PE, Keith Rebello, PhD, PE, Varaprasad Venkata, PE, Thomas Swanson, PE, PTOE, Jerome Lohmann, PE, Christopher Nipper, PE, Jeff Robinson, PE, Logan Michel, PE

Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Environmental, Road, Bridge, Traffic, Other (Electrical) ****
Project Name	**I-10 Widening, Williams Blvd. to Veterans Blvd.**	Firm responsibility (prime or sub?)	Prime
Project Number	H.003074	Owner's Name	LADOTD
Project Location	Jefferson, Louisiana	Owner's Project Manager	Timothy Nickel
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1110, Timothy.nickel@la.gov		
Services commenced by this firm (mm/yy)	07/12	Total consultant contract cost ($1,000's)	$ 7,981
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$ 5,088

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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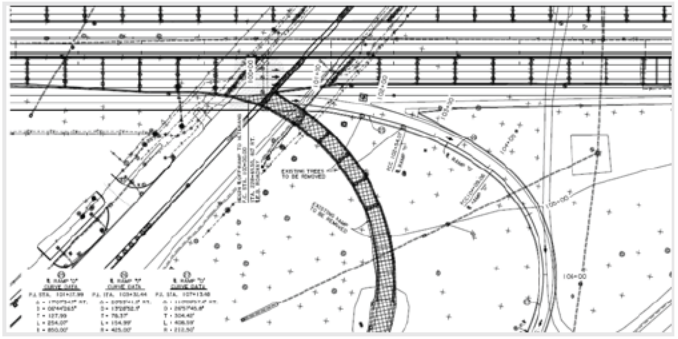
GEC is currently designing the roadway widening, new bridges, and **interchanges** of I-10 between Williams Boulevard and Veterans Boulevard in Jefferson Parish. Final design plans are over 95% complete. The total project length is 2.58 miles and consists of the construction of one 12' additional lane with a 10' shoulder inside along the I-10 eastbound and westbound roadways. Included in the project is the replacement and widening of the bridges over Canal No. 3 and Veterans Blvd. Sound Barriers, both ground-mounted and structure-mounted on the north side of I-10, and the design of a **diamond interchange (WB) and partial cloverleaf interchange (EB)**. GEC provided feasibility studies, road design, bridge design, electrical design, and environmental analyses for this project.

GEC recently finalized final bridge plans and is currently completing final plans for this highly congested urban freeway with phased sequence of construction in order to maintain a minimum of 3 lanes of traffic during construction in peak travel hours for Jefferson Parish commuters.



The bridges over Canal No. 3 and Veterans Blvd. will be replaced with a combination of concrete slab spans, PPC girder spans, and steel plate girder spans. Design has also been performed on the replacement of portions of the concrete lining of Canal No. 3 that will be impacted by the new bridge design.

The new GEC-designed bridges over Canal No. 3 and Veterans Blvd. will be constructed in 3 phases to maintain 3 lanes of traffic on I-10 in each direction at all times. This project included a **level 2 Transportation Management Plan (TMP).**

PHASE I: a section of the new westbound bridge will be built in the existing median and designed to carry 3 lanes of traffic. The eastbound traffic will be diverted from the existing eastbound bridge to the new Phase I bridge in the median.

PHASE II: the existing eastbound bridge will be demolished and replaced with a new bridge designed to carry 4 lanes of traffic and one auxiliary lane. Once completed, the eastbound traffic will be re-routed from the Phase I bridge onto the new eastbound bridge. The westbound traffic will be diverted from the existing westbound bridge onto the Phase I bridge in the median.

PHASE III: the existing westbound bridge will be demolished and the second half of the new westbound bridge will be constructed. Once completed, the entire new westbound bridge will be opened to traffic and will be designed to carry 4 lanes of traffic. Sound barriers are included on the north side of the I-10 westbound bridges.

GEC performed an initial extensive load rating of the existing bridges on this stretch of I-10, resulting in LADOTD making an informed decision to replace the bridges. GEC submitted 95% plans for the replacement bridges and ramps for this highly congested 2.58 mile urban interstate project and completed a detailed as-designed bridge rating for this project in accordance with Bridge Design Technical Memorandum 40.1.

GEC's lighting design department has been tasked with performing lighting design on the interchanges within the project limits - namely, Williams Blvd., Power Blvd., and Veterans Blvd. The lighting design included photometric analyses of the existing lighting system with the proposed roadway geometry and analyzes the design issues found during GEC's review. In addition, GEC's structural staff is replacing the existing cantilever truss with a full truss and relocating an existing sign.

Firm Members Involved: Cary Bourgeois, PE, Keith Rebello, PhD, PE, Varaprasad Venkata, PE, Jerome Lohmann, PE, Christopher Nipper, PE, Logan Michel, PE

Firm Name	**Arcadis**	Past Performance Evaluation Discipline(s)*	**Planning, Environmental, Traffic, Road, Bridge** **
Project Name	**I-10 (LA 73, LA 74, & LA 429) Interchange Feasibility Studies**	Firm responsibility (prime or sub?)	Prime
Project Number	H.003771.2	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Ascension Parish, LA	Owner's Project Manager	Peggy Jo Paine
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 242 4514, peggy.paine@la.gov		
Services commenced by this firm (mm/yy)	04/13	Total consultant contract cost ($1,000's)	$768
Services completed by this firm (mm/yy)	11/19	Cost of consultant services provided by this firm ($1,000's)	$716

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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Arcadis was contracted by LaDOTD to conduct a feasibility study to identify interchange improvements at the existing interchange at I-10 and LA 73 and at two new interchange locations at I-10 and LA 74 and I-10 at LA 429 in Ascension Parish, LA.

Traffic Study and Microsimulation Modeling. The traffic study was **performed in accordance with LADOTD Traffic Engineering Process and Report Guidelines** and involved traffic data collection, volume development, alternative development / evaluation, and traffic analysis using a calibrated microsimulation model (VISSIM). The study area experiences oversaturated conditions during peak periods that required extensive calibration efforts to effectively replicate observed congestion and queues. Arcadis **developed and implemented a volume estimation methodology** in accordance with NCHRP Report 765 to project future year volumes at new interchange locations at LA 74 and LA 429 as well as changes in travel patterns along I-10 and at the existing LA 73 interchnage. This process required an **in-depth understanding of local and regional land-uses and travel demand patterns** to make sound assumptions when creating balanced network volumes. Reasonable alternatives were developed and evaluated based on projected volumes to determine their effectiveness with respect to **operations and safety** and to **quantify their impact to envrionmental resources**.

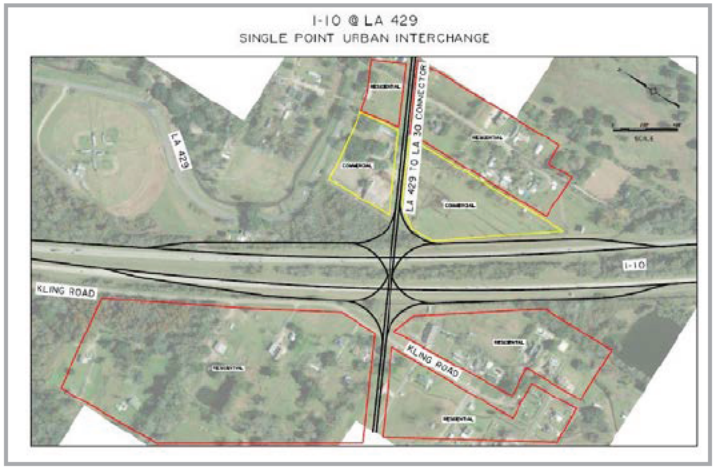
Alternative Development. Arcadis evaluated all interchange alternatives for existing and proposed interchange locations using a **data driven, tiered evaluation process**. The tiered evaluation **identified evaluation crtiera based on the unique needs and challenges of each interchange location**. For LA 73, diamond and partial clover leaf interchange types were selected for further analysis. For LA 74, tight urban diamond (TUDI) and single point urban (SPUI) interchange types were selected because they minimize environmental and right-of-way impacts. **For LA 429, diamond, SPUI, partial clover leaf, and diverging diamond (DDI) interchanges were selected.** The LA 429 interchange is expected to serve as an alternative route to LA 30 for large truck traffic. With this in mind, interchanges that could accommodate higher volumes of large truck traffic were considered.

Environmental Inventory and Impact Assessment. For each interchange location, an **inventory of potential environmental resource and environmental justice impacts** was conducted to quantify environmental impacts for potential alternatives. Avoiding such impacts was a primary consideration in the development and selection of potential build alternatives.

Firm Members Involved: Akhil Chauhan, Ari Deitch, Thomas Montz, Jose M. Rodriguez

RELEVANT SERVICES

- Traffic Data Collection/ Analysis
- Microsimulation Modeling
- Volume Development
- Build Alternative Development
- Conceptual Design Drawings
- Construction Cost Estimates
- Interchange Modification/ Justification Report
- Environmental Impact Assessment



Firm Name	**Arcadis**	Past Performance Evaluation Discipline(s)*	**Planning, Traffic, Env, Road, Bridge** **
Project Name	**Pete's Highway Interchange Alternatives and Environmental Assessment**	Firm responsibility (prime or sub?)	Prime
Project Number	H.002397.2	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Livingston Parish, LA	Owner's Project Manager	Ryan Morvant
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1652, ryan.morvant@la.gov		
Services commenced by this firm (mm/yy)	01/14	Total consultant contract cost ($1,000's)	$1,500
Services completed by this firm (mm/yy)	Suspended*	Cost of consultant services provided by this firm ($1,000's)	$1,380

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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High-priority funding allowed LADOTD to employ Arcadis to complete an **NEPA Environmental Assessment**, Traffic Engineering, and Geometric Design Layouts, including the establishment of apparent and required right-of-way, to improve congestion and operations.

Alternatives Evaluation & Development: Preliminary alternatives retained from the Stage 0 feasibility study were refined and evaluated for constructability, temporary construction effects, construction costs, and permanent direct and indirect effects. Alternatives included two split diamond interchange options with roundabout, partial clover leafs, collector-distributor roads at Range Avenue and Pete's Highway (LA 16), and a diverging diamond interchange (DDI) at Range Avenue. Arcadis developed **geometric design drawings** for the DDI alternative including **line and grade** in accordance with LADOTD roadway and minimum design guidelines. Alternatives incorporated **context sensitive solutions** and complete streets policy through coordination with the LADOTD, parish, and planning organizations to include sidewalks and high visibility crosswalks.

RELEVANT SERVICES

- Environmental Assessment
- Traffic Study/IMR
- Alternative Development/Screening
- Geometric Design Drawings
- Line and Grade
- Construction Cost Estimate
- Air and Noise Analysis
- Context Sensitive Solutions
- Public involvement/Stakeholder Outreach

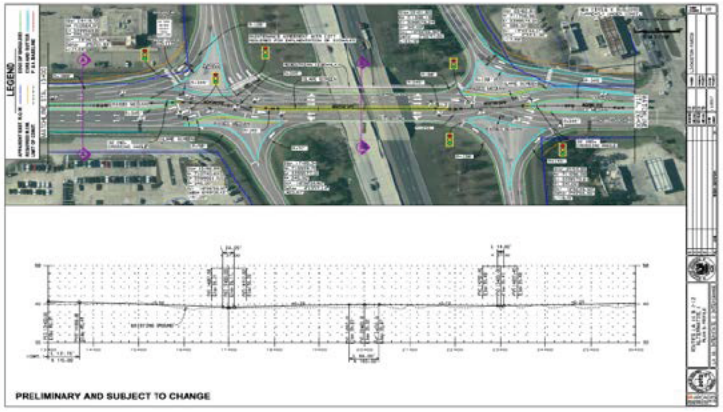

Figure: Diverging Diamond Interchange Alternative - Plan and Profile

Traffic Study & IMR: A traffic study was conducted to evaluate proposed alternatives. The traffic study scope included **data collection/analysis**, VISSIM model development and calibration, existing and future year scenario analysis, roundabout analysis, future volume projections, **alternative analysis**, proposed signing and striping layouts, and FHWA policy point/IMR documentation.

Planning & Environmental: Arcadis completed **technical studies** to support the Environmental Assessment including wetlands and biological resource identification, Phase I Environmental Site Assessment, **traffic noise and air quality analysis**, socio-economic and community impact evaluation, and secondary and cumulative effects analysis. Because of the complexity of the alternatives and high public profile of the project, Arcadis designed and coordinated a project website to facilitate ongoing dialogue with the community and provide information to the public. Arcadis **conducted public and stakeholder meetings** to obtain input and satisfy federal requirements. Visual simulations of the complex traffic operations were used during the meetings along with displays of the alternatives and anticipated travel pattern changes.

Project is suspended due to lack of funding

Firm Members Involved: Akhil Chauhan, Skyler Waaso, Thomas Montz, Ari Deitch, Justin Maderia, David Fulks, Jan Hughes, Jason Morrell, Jose M. Rodriguez, Garret Keller

Firm Name	**Arcadis**		Past Performance Evaluation Discipline(s)*	**Planning, Environmental, Traffic, Road, Bridge**	**
Project Name	**US 11 Environmental Assessment**			Firm responsibility (prime or sub?)	Prime
Project Number	H.000688.2		Owner's Name	Louisiana Department of Transportation and Development (LADOTD)	
Project Location	St. Tammany Parish, LA		Owner's Project Manager	Sara Moss, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1133, sara.moss@la.gov				
Services commenced by this firm (mm/yy)	04/13		Total consultant contract cost ($1,000's)	$768	
Services completed by this firm (mm/yy)	Ongoing		Cost of consultant services provided by this firm ($1,000's)	$716	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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LADOTD contracted Arcadis and its sub-consultants to prepare an **Environmental Assessment** for the replacement of an historic railroad overpass and the upgrade of the existing undivided highway to a four-lane superstreet in Slidell, LA. The project goal was to promote mobility and safety along the corridor.

RELEVANT SERVICES

- Data Collection
- Traffic and Safety Analysis
- Alternative Screening
- Preliminary Roadway and Bridge Design
- Line and Grade
- Environmental Assessment
- Construction Cost Estimates
- Public Involvement
- Agency Coordination/Stakeholder Outreach

Traffic and Safety Improvements: Five existing intersections were reconfigured as either Restricted Crossing U-turn (RCUT) intersections or as median U-turn (MUT) intersections to eliminate side street left turns. The corridor was designed for WB-67 vehicles requiring that several loons and truck aprons be provided at U-turns. Vertical geometrics were designed for the main corridor as well as all side streets and a **3D design model was developed** to verify that construction limits were accurate, and that low ground clearance at railroad crossings was avoided.

Preliminary Roadway and Bridge Design: Arcadis performed all engineering services including **roadway and bridge line and grade and geometric design**, railroad track, ballast, and maintenance road design to evaluate clearance requirements with future planned rail additions, 3D design modeling of existing terrain, railroad full-build condition, and bridge and roadway typical sections and geometric layouts for improvements. Design drawings were used to accurately determine earthwork, construction limits, required right-of-way, and **construction cost estimates**.

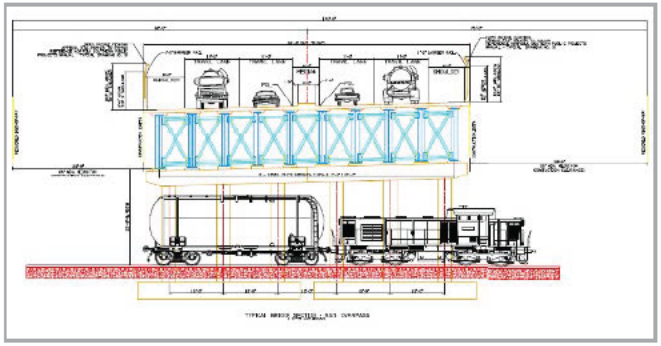


Figure: Proposed US 11 bridge typical section and railroad clearance

Context Sensitive Design: The design includes **ADA compliant curb ramps and crosswalks** to incorporate the existing sidewalks and **accommodate pedestrian traffic**. Sufficient space was included within the roadway border for the future installation, by the City of Slidell, of a **multi-use path to accommodate bicyclists**. Finally, access to existing businesses was carefully balanced within the requirements of the **LADOTD Access Management Policy**.

Planning and Environmental: Arcadis completed **technical studies** to support the Environmental Assessment including wetlands and biological resource identification, Phase I Environmental Site Assessment, **traffic noise and air quality analysis**, socio-economic and community impact evaluation, and secondary and cumulative effects analysis. Additional studies and coordination completed for the project include a Phase I Cultural Resource Survey and Reporting and Public Involvement involving public information meetings and a public hearing for the Environmental Assessment. The results of technical studies and public involvement were summarized in the Environmental Assessment to support a Finding of No Significant Impacts (FONSI).

FHWA approved the Finding of No Significant Impacts (FONSI) for the project in August 2022 and Arcadis is working with DOTD to prepare the Final EA and re-evaluation for FHWA approval.

Firm Members Involved: Akhil Chauhan, Thomas Montz, Ari Deitch, David Fulks, Lauren Bolstad, Jan Hughes, Jason Morrell, Justin Maderia

Firm Name	**Marmillion/Gray Media, Inc.**	Past Performance Evaluation Discipline(s)*	**Planning** **
Project Name	**Baton Rouge Loop Tier 1 Environmental Impact Statement (EIS)**	Firm responsibility (prime or sub?)	Sub
Project Number	CAEA No.: E-2009-001	Owner's Name	East Baton Rouge Parish/Capital Area Expressway Authority
Project Location	Capital Region (5 parishes- Ascension, EBR, WBR, Livingston, Iberville)	Owner's Project Manager	Bryan Harmon (retired, EBR DPW)
Owner's address, phone, email	P.O. Box 1471, Baton Rouge, LA 70821; (225) 389-3158; fraiford@brla.gov		
Services commenced by this firm (mm/yy)	02/09	Total consultant contract cost ($1,000's)	N/A
Services completed by this firm (mm/yy)	03/16	Cost of consultant services provided by this firm ($1,000's)	$291k

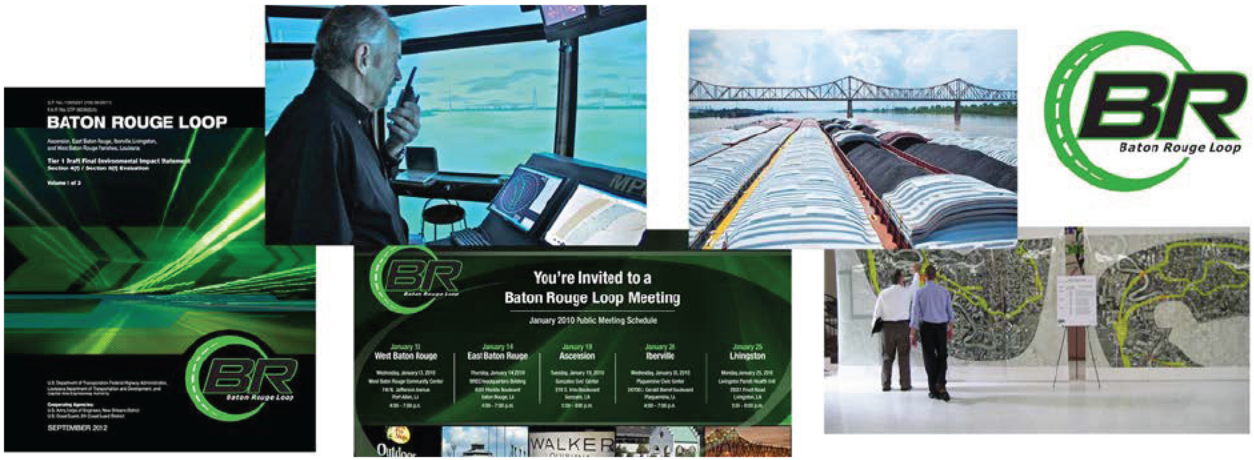
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

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

**This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Firm's Role: Lead for public and stakeholder outreach and engagement, media relations, communications, public meetings, media production

Marmillion/Gray Media provided **public and stakeholder outreach services** for the Baton Rouge Loop **Environmental Impact Statement (EIS)** project throughout the five Capital Region parishes. The project included the line and grade study and EIS for a potential Mississippi River Bridge Loop crossing. Marmillion/Gray Media provided stakeholder and advisory committee coordination; media relations; database management; production of project newsletters, videos, websites, and presentations; **managing public meetings, hearings and comment periods.** We assisted with elected official, agency, and stakeholder briefings, and presentations to the Capital Region legislative delegation, stakeholders, advocacy groups, LADOTD, and FHWA.



Firm Members Involved: *Rannah Gray, Sarah Powell*

Firm Name	**Marmillion/Gray Media, Inc.**	Past Performance Evaluation Discipline(s)*	**Planning** **
Project Name	**MOVEBR Program Management Services**	Firm responsibility (prime or sub?)	Sub
Project Number	19-CS-HC-0005	Owner's Name	East Baton Rouge Parish
Project Location	East Baton Rouge Parish	Owner's Project Manager	Fred Raiford
Owner's address, phone, email	P.O. Box 1471, Baton Rouge, LA 70821; (225) 389-3158; fraiford@brla.gov		
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost ($1,000's)	$5602k
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$420k to date

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

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Firm's Role: Lead for public outreach, media relations, stakeholder engagement, communications

Marmillion/Gray Media is responsible for handling **public and stakeholder outreach, communications, media relations, engagement, as well as website and social media management services** for the MOVEBR Program in EBR Parish. They initially developed a comprehensive Communications Plan and Public/Stakeholder Outreach Plan, which serves as the foundation for all public and stakeholder activities. These plans have been continuously updated throughout the project. M/G Media also leads the Communications Workgroup and Outreach Workgroup.

In their role, Marmillion/Gray Media manages all communication efforts for the program. They organized the kick-off event, designed the program logo, created a detailed Communications Plan, coordinated media outreach, designed the program's website, handled graphic design and videography, managed social media accounts, conducted digital advertising, oversaw newsletter production, and coordinated public meetings and outreach activities related to community enhancement, improvement of existing corridors, and transportation projects.

Firm Members Involved: *Rannah Gray, Sarah Powell, Ashley Powell*

Firm Name	**Marmillion/Gray Media, Inc.**	Past Performance Evaluation Discipline(s)*	**Planning** **
Project Name	**Nicholson Corridor High-Capacity Transit System Environmental Assessment**	Firm responsibility (prime or sub?)	Sub
Project Number	16-CI-US-0032	Owner's Name	East Baton Rouge Parish
Project Location	East Baton Rouge Parish	Owner's Project Manager	Stephen Bonnette (retired, EBR DPW)
Owner's address, phone, email	P.O. Box 1471, Baton Rouge, LA 70821; (225) 389-3158; fraiford@brla.gov		
Services commenced by this firm (mm/yy)	09/16	Total consultant contract cost ($1,000's)	N/A
Services completed by this firm (mm/yy)	12/16	Cost of consultant services provided by this firm ($1,000's)	$138k

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

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

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Firm's Role: Lead for public outreach, media relations, stakeholder engagement, communications

TramLinkBR, a proposed modern streetcar system was introduced to Baton Rouge with **creative branding, realistic renderings, media outreach, website development, stakeholder outreach and informative public meetings** all provided by Marmillion/Gray Media. Marmillion/Gray Media worked with the prime consultants to conform with FTA and **NEPA process requirements** and assisted in conducting a site visit to Kansas City for East Baton Rouge Parish elected officials. After reviewing the **Environmental Assessment document** and its supporting documentation, the FTA issued a **Finding of No Significant Impact (FONSI)** for this project on July 29, 2016. Our firm has continued working with the prime consultants and the current administration on a feasibility study to convert this project to a more flexible and economical bus-rapid-transit.

The Federal Transit Administration (FTA) named the TramLinkBR project the 2017 winner of its Outstanding Achievement Award for Excellence in Environmental Document Preparation.

Firm Members Involved: *Rannah Gray, Sarah Powell, Ashley Powell*

Firm Name	**The Lakvold Group**		Past Performance Evaluation Discipline(s)*	**Planning/Right-of-Way/Appraiser** **	
Project Name	**US 80 Widening: Vancil Road to Well Road Environmental Assessment**			Firm responsibility (prime or sub?)	Sub
Project Number	H.009932	Owner's Name	LADOTD		
Project Location	Ouachita Parish, Louisiana		Owner's Project Manager	Christina Brignac	
Owner's address, phone, email	1201 Capitol Access Road Baton Rouge, LA, 225-379-1232, cbrignac@la.gov				
Services commenced by this firm (mm/yy)	05/19	Total consultant contract cost ($1,000's)		$742,500	
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm ($1,000's)		$7,200	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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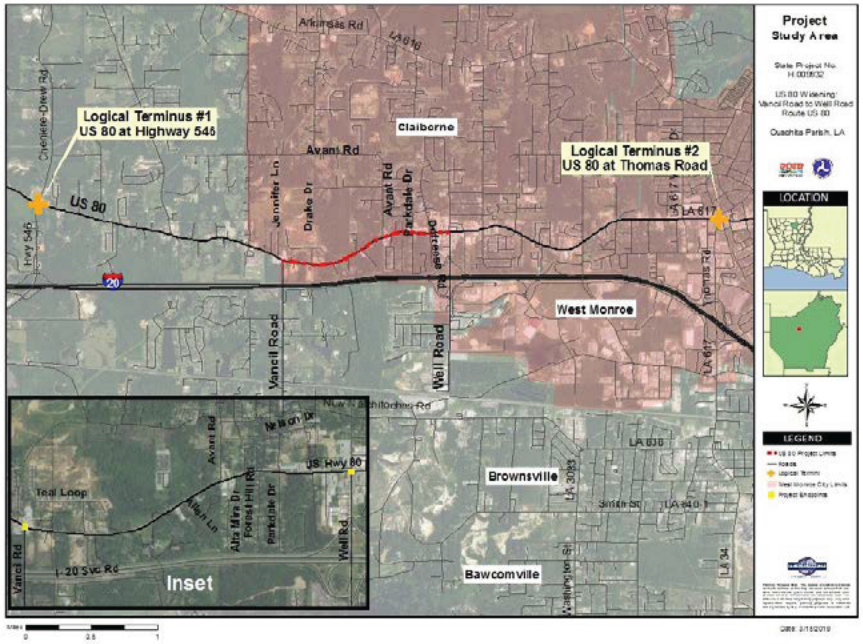
US 80 is an important roadway within Ouachita Parish, as it provides ingress and egress from cities within Louisiana to West Monroe. The US 80 Widening Project was an Environmental Assessment in accordance with LADOTD and FHWA. This project purpose and need was to increase capacity, improve traffic congestion and minimize travel delays, and improve safety along US 80 between Vancil Road and Well Road.

Firm's Role: The Lakvold Group completed the Conceptual Stage Relocation Plan based on various alternatives. The plan included viewing the project area and researching the market area and real estate transactions and available real estate inventory. The findings were presented in the Conceptual Stage Relocation Plan Report and submitted to LADOTD and FHWA for review.

Project Management and Final Transportation Study and Deliverables. These tasks included providing the completed document for review and inclusion in the Environmental Assessment.

Firm Members Involved: Angela Lemoine-Lakvold and support staff



Firm Name	**The Lakvold Group**		Past Performance Evaluation Discipline(s)*	**Right-of-Way/Appraiser**	**
Project Name	**Belle Chasse Bridge & Tunnel**			Firm responsibility (prime or sub?)	Sub
Project Number	H.004791	Owner's Name	LADOTD		
Project Location	Jefferson Parish and Plaquemines Parish, Louisiana		Owner's Project Manager	Joe Earls	
Owner's address, phone, email	8555 United Plaza Boulevard, Baton Rouge, Louisiana; Phone 833-523-2526; joseph.earls@csrsinc.com				
Services commenced by this firm (mm/yy)	11/20	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	03/22	Cost of consultant services provided by this firm ($1,000's)		$120,000	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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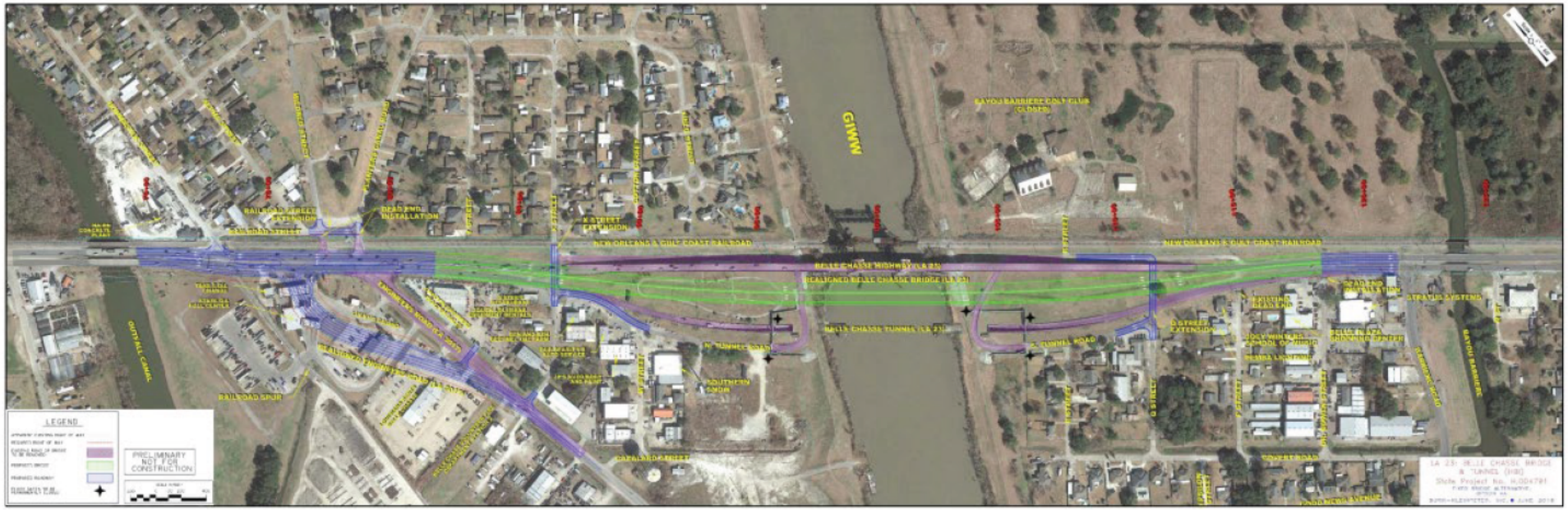
Firm's Role: Complete appraisals for the acquisition of the right-of-way for the construction of the project. Project Management and Final Transportation Study and Deliverables. These tasks included meeting with property owners, cost consultants, and project managers. Analysis and research of the real estate market and completion of individual appraisals on the various parcels.

Firm Members Involved: Angela Lemoine-Lakvold and support staff



Firm Name	The Lakvold Group	Past Performance Evaluation Discipline(s)*	Planning/Right-of-Way/Appraiser **
Project Name	Interstate 10/Loyola Interchange Improvements Environmental Assessment	Firm responsibility (prime or sub?)	Sub
Project Number	H.011670	Owner's Name	LADOTD
Project Location	Jefferson Parish, Louisiana	Owner's Project Manager	Joe Earls
Owner's address, phone, email	8555 United Plaza Boulevard, Baton Rouge, Louisiana; Phone 833-523-2526; joseph.earls@csrsinc.com		
Services commenced by this firm (mm/yy)	01/18	Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm ($1,000's)	$17,400

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
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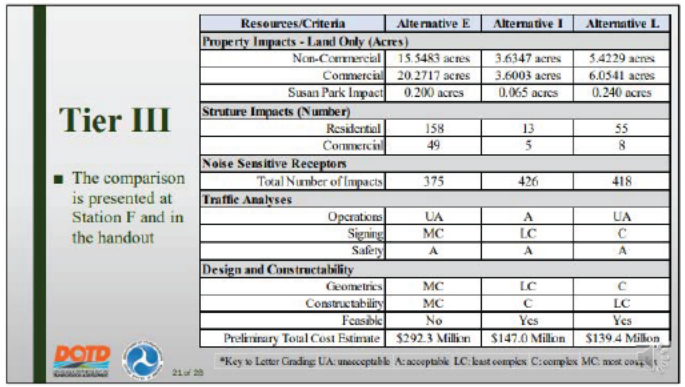
The purpose of the proposed I-10/Loyola Dr. Interchange Improvements project is to increase the capacity of the existing interchange in order to accommodate current and future traffic demands as well as to serve as the primary ingress and egress for the new North Terminal being constructed at the Louis Armstrong New Orleans International Airport (MSY).

Firm's Role: Completed Conceptual Stage Relocation Plan based on various alternatives. Plan included viewing the project area and research of the market area and real estate transactions and available real estate inventory. Completed the advanced acquisition of the Red Roof Inn.

Project Management and Final Transportation Study and Deliverables. These tasks included providing the completed document for review and inclusion in the Environmental Assessment. Analysis and research of the real estate market and completion of individual appraisals on the various parcels.

Firm Members Involved: Angela Lemoine-Lakvold and support staff



Resources/Criteria	Alternative E	Alternative I	Alternative L
Property Impacts - Land Only (Acres)			
Non-Commercial	15.5483 acres	3.6347 acres	5.4229 acres
Commercial	20.2717 acres	3.6003 acres	6.0541 acres
Susan Park Impact	0.200 acres	0.065 acres	0.240 acres
Struture Impacts (Number)			
Residential	158	13	55
Commercial	49	5	8
Noise Sensitive Receptors			
Total Number of Impacts	375	426	418
Traffic Analyses			
Operations	UA	A	UA
Signing	MC	LC	C
Safety	A	A	A
Design and Constructability			
Geometrics	MC	LC	C
Constructability	MC	C	LC
Feasible	No	Yes	Yes
Preliminary Total Cost Estimate	$292.3 Million	$147.0 Million	$139.4 Million

*Key to Letter Grading: UA: unacceptable A: acceptable LC: least complex C: complex MC: most co

Firm Name	**Gulf South Research Corporation**		Past Performance Evaluation Discipline(s)*	**Environmental**	**
Project Name	**US 165 UP Railroad Overpass Near Bonita, Phase I CRS**			Firm responsibility (prime or sub?)	Prime
Project Number	4400014188; TO H.000665.2; FAP No. H000665	Owner's Name	LADOTD		
Project Location	Bonita, Morehouse Parish, Louisiana		Owner's Project Manager	Jessica Richardson	
Owner's address, phone, email	PO Box 94245, Baton Rouge, LA 70804-9245, (225)242-4511, Jessica.richardson@LA.GOV				
Services commenced by this firm (mm/yy)	02/21	Total consultant contract cost ($1,000's)		$15	
Services completed by this firm (mm/yy)	06/21	Cost of consultant services provided by this firm ($1,000's)		$10	

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

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The Louisiana Department of Transportation and Development (DOTD) on behalf of the Federal Highway Administration (FHWA), contracted GSRC to conduct a cultural resources survey for the additional survey of 1.9 acres for the change in the required right-of-way for the Bonita bridge replacement site and to provide an addendum to the report. GSRC conducted the necessary research to obtain the names/addresses of property owners from whom the additional right-of-way was required and contacted, developed right-of-entry letters, and obtained permission to access their property. GSRC also conducted Louisiana One-Calls to ensure the project area was safe for excavation. GSRC's initial investigation included literature and archival research utilizing existing data from the Louisiana Department of Archaeology (LADOA) Database. This information was used to understand the previously conducted archaeological surveys in the area, as well as types of cultural resources that could be encountered during the survey.

GSRC conducted the Phase I cultural resources survey utilizing a single transect and shovel tests spaced at 30-meter intervals in accordance with the Fieldwork Guidelines for terrestrial surveys based on LADOA standards. The archaeological survey resulted in the excavation of 19 shovel test pits (STP) across the survey area. All shovel tests were excavated to be 30 centimeters (cm) in diameter and excavated to the sterile subsoil at a depth of 50 cm. The intensive cultural resources survey of the property did not identify any archaeological sites or historic structures. A Trimble GeoXT GPS unit was used to record all shovel tests during this study. Each shovel test was recorded on standardized forms and included terminal depth, and strata observed including soil color using Munsell Soil Color Charts, and soil textures. Photographic data was also collected during the survey of shovel test pits and of the project area's environment. An executive summary of the results of the survey was submitted to DOTD within 5 days after completing the fieldwork. GSRC also prepared an addendum report outlining the results of the survey. The cultural resources report was submitted to the Louisiana SHPO during the consultation on the project. The Louisiana SHPO concurred with all the findings presented in the report.

Firm Members Involved: John Lindemuth, Elizabeth Hunt, Eve Carter, and Mark Hathorn

Firm Name	Gulf South Research Corporation	Past Performance Evaluation Discipline(s)*	Environmental **
Project Name	Environmental Compliance Assistance for Clearing and Grubbing 302 Acres at England Airpark, Alexandria, Louisiana	Firm responsibility (prime or sub?)	Sub
Project Number	Signed letter contract	Owner's Name	Pan American Engineers, LLC
Project Location	Alexandria, Louisiana	Owner's Project Manager	Brendon Gaspard
Owner's address, phone, email	1717 Jackson St., Alexandria, LA 71301, (318) 473-2100; Brendon@paealex.com		
Services commenced by this firm (mm/yy)	12/13	Total consultant contract cost ($1,000's)	$348.25
Services completed by this firm (mm/yy)	10/17	Cost of consultant services provided by this firm ($1,000's)	$348.25

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

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GSRC conducted Phase I cultural resources survey, for the clearing and grubbing of 302 acres at England Airpark. The Phase I cultural resources survey revisted two previously recorded archaeological sites, the McNutt Plantation [16RA692] and the Weil Property [16RA703]. Both site were recommended potentially eligble for the NRHP. GSRC subsequently conducted the Phase II archaeological site testing and III data recovery testing at the two previously recorded historic cultural resources sites. The Phase II archaeological site testing consisted of a excavation of shovel test pits along along a 10-meter grid across the McNutt Plantation and Weil Property archaeological sites and the excavation of four 1-meter by 1-meter test units at each site. The Phase III data recovery consisted of stripping approximately 4, 000 square meters of topsoil and placing excavation block units in high-probability areas to reveal intact cultural deposits or features across both sites. In addition to mechanical stripping and excavation of block units, an in-depth archival investigation was conducted, which identified the main house as having a construction date of 1859 and having been destroyed with the construction of the Alexandria Municipal Airport in the 1940s. The Weil Property (16RA703) had four chimney falls located during the Phase I investigation; no other features were located. The McNutt Plantation (16RA692) excavation units revealed several intact features, including the brick foundation of the main house, a concrete foundation for a side building, and the brick lining of a subterranean cistern.

Block Excavation of Brick Pier Feature, McNutt Plantation

GSRC personnel prepared the Phase I cultural resources survey report, a research design for both the Phase II archaeological site testing and Phase III data recovery investigations, a management summary outlining the result of the Phase II archaeological site testing investigations, Adverse Effects Documentation on the two eligible archaeological sites, the Memorandum of Agreement for mitigation of adverse effects on the two archaeological sites, and a management summary for the Phase III data recovery investigations, and is the technical report that detailed the combined results of both the Phase II archaeological site testing and Phase III data recovery investigations. GSRC personnel also analyzed the artifacts recovered from the Phase II and III investigations in their in-house laboratory and are prepared the collection for permanent curation. All work (100%) under this task order was performed in Louisiana.

Firm Members Involved: Josh McEnany, John Lindemuth, and Bretton Somers

Firm Name	Gulf South Research Corporation	Past Performance Evaluation Discipline(s)*	Environmental **
Project Name	Archaeological Survey Requirements Phase I Fort Polk, Vernon Parish, Fort Polk Louisiana	Firm responsibility (prime or sub?)	Prime
Project Number	W9126G-12-D-0012, Task Order 0009	Owner's Name	USACE, Fort Worth
Project Location	Vernon Parish, Louisiana	Owner's Project Manager	Mike Falcone
Owner's address, phone, email	819 Taylor Street; Fort Worth, Texas 76102;817-886-1724; Michael.W.Falcone@usace.army.mil		
Services commenced by this firm (mm/yy)	09/13	Total consultant contract cost ($1,000's)	$803
Services completed by this firm (mm/yy)	05/15	Cost of consultant services provided by this firm ($1,000's)	$803

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

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The Conservation Branch at Fort Polk through the USACE, Fort Worth District, contracted GSRC to survey approximately 6,200 acres of land in Vernon Parish, Louisiana. GSRC's investigation included literature and archival research utilizing existing data. This information was used to characterize the cultural resources that would be encountered during the surveys and as a basis for evaluating the resources found for the NRHP, as well as developing a Research Design that was used to guide the study and for evaluating the archaeological resources recorded.

GSRC conducted the Phase I cultural resources survey utilizing parallel transects and shovel tests spaced at 30- or 50-meter intervals, dependent on the probability zones provided in the Fort Polk Site Probability Model. The terrestrial survey resulted in the excavation of over 21,000 shovel test pits (STP) across the survey area. An additional 3,677 STPs were excavated during the recording and updating of archaeological sites during the survey. The intensive cultural resources survey of the property identified 63 archaeological sites, including a historic cemetery, revisited and updated four previously recorded archaeological sites, and identified 73 isolated finds dating from the Late Paleoindian through the Industrial and Modern periods of Louisiana. State of Louisiana Archaeological Site Forms were completed for each archaeological site recorded in the field. A Trimble GeoXT GPS unit was used to record relevant features of all archaeological sites and isolated finds identified during this study. GPS points were taken for the center of the archaeological site or isolated find and the datum established at each archaeological site. Metadata associated with GIS files were maintained and submitted to Fort Polk as a deliverable with the GIS data. Photographic data were also collected at each site location during the delineation of the site boundaries. A survey photo log was maintained for the duration of the study.

GSRC was also responsible for the conservation of over 3,000 artifacts recovered during the survey effort and the preparation of the artifacts and associated documents for curation including the creation of a curation inventory. GSRC entered all artifacts into a curation database provided by Fort Polk and prepared the collection in accordance with Fort Polk's guideline for curation, which exceeded industry standards. GSRC also prepared a technical report outlining the results of the survey and that addressed research questions regarding settlement patterns and lithic resource use in the area. This cultural resources report was submitted to the Louisiana SHPO during the consultation on the project. The Louisiana SHPO concurred with all the findings presented in the report. John Lindemuth and Bretton Somers were task managers for this project.

Firm Members Involved: John Lindemuth (Task Manager) and Bretton Somers (Task Manager)

Section 18

This graphic outlines GEC capabilities in meeting or exceeding the evaluation criteria for LADOTD projects.

The GEC Team is equipped with lessons learned and the knowledge of how to proactively approach this project to provide successful and timely deliverables.

FIRM EXPERIENCE

- The GEC Team firms have combined 240+ years of experience
- The GEC Team firms, as demonstrated by the enclosed project sheets, have relevant experience for their assigned scope
- The GEC Team has provided engineering and environmental services for numerous transportation related environmental studies in accordance with NEPA and LADOTD standards
- The GEC Team has worked together in the past on similar projects to conduct line and grade studies, environmental documents, technical studies, public outreach, purpose and need, and alternatives analysis

PAST PERFORMANCE

- The GEC Team has a proven track record at successfully providing environmental and engineering services for LADOTD through our past performance, local knowledge, coordination/ cooperation with LADOTD, adherence to schedules and budgets, and producing a superior work product
- The GEC Team has consistently high consultant ratings in the relevant project evaluation disciplines
- Narratives from previous LADOTD Environmental Project Managers are a testament to The GEC Team's past performance

STAFF EXPERIENCE

- GEC Team members, as demonstrated by enclosed resumes, have relevant experience for their proposed project role
- The GEC Team is structured to provide adequate capability and capacity to perform volume and quality of required scope of work within the project schedule
- The Project Management Team is staffed with qualified personnel having appropriate experience in similar projects, with dedicated time appropriately allocated to this project
- Project management team and key personnel have successfully led LADOTD projects in their respective scope fields
- Individual proposed personnel experience includes members who have spent the last 30+ years engaged in NEPA and transportation projects
- The GEC Team consists of 3 DBE firms; the GEC Team recognizes the importance of inclusive participation and exceeds the requirements of this evaluation criteria

CURRENT WORKLOAD

- Most of the work currently being performed by the GEC Team are in other evaluation disciplines, leaving the core group proposed for this project available to start work immediately
- Regarding Section 19: Work categorized as "other" is mostly electrical; the Road Transfer Program involves only 1 GEC employee housed full-time at LADOTD HQ for the management of this program. It is unlikely the entire contract amount will be spent; the I-49 project design phase has been put on hold to revisit the NEPA process; therefore, GEC's involvement has been limited to the following: conceptual bridge layouts for the environmental assessment, pump station design, and project scheduling. GEC's roadway staff is not involved in the project.
- The staff identified in this submittal will be immediately available upon receipt of NTP from LADOTD. GEC has sufficient staff and resources regardless of ongoing contracts listed in Section 19 of our response.

FIRM SIZE TO MAGNITUDE

- The GEC Team has a large physical presence in Louisiana & robust in-house transportation & environmental engineering capabilities
- The GEC Team has 50 dedicated personnel committed to this contract over 40 additional personnel available as support
- GEC is a Baton Rouge, LA headquartered firm, staffed by over 100 Louisiana residents with a personal interest that goes far beyond fulfillment of contractual obligations to LADOTD
- All firms on the GEC Team are situated within the geographic proximity to the project area and have the capability to perform these services within these offices with limited support from other offices
- The GEC Team has successfully completed projects of similar size and complexity for LADOTD

APPROACH & METHODOLOGY

- As described in Section 18, The GEC Team knows how to approach the project, understands the scope of the project, and is highly knowledgeable with the FHWA-LADOTD NEPA process
- Our approach to the project includes regular and ongoing communication to keep all parties involved and informed. The GEC Team will provide information in a concise manner, ensuring careful public communications and making it easily understandable for all interested parties.
- A unique work plan will be developed at the very beginning that will detail the schedule, timeline, and tasks required to complete the project and will be updated on a daily basis to ensure efficiency and timely deliverables

GEC

18. Approach and Methodology I-10 at LA 74

THE GEC TEAM

- Highly qualified multidisciplinary staff experienced across the spectrum of specialized transportation project engineering & environmental needs
- Technically experienced design group with a long & successful record in providing alternatives analysis, IMRs, and IJRs for LADOTD
- Nationally recognized environmental & public outreach experts in project communication, community involvement, & identifying project-related concerns & associated mitigation measures

Summary of Experience

G.E.C., Inc. (GEC) is pleased to present LADOTD with a team of recognized experts the elements of work required to complete the I-10 at LA 74 IJR & EA project, covering all phases of implementation from conceptual planning through final acceptance & decision documentation. This strategically selected team of consultants, led by GEC, with **subconsultants Arcadis, GSRC, Lakvold, and Marmillion/Gray Media (M/G Media)** have significant experience working together & in providing similar services for FHWA-LADOTD NEPA projects, which include environmental, planning, roadway, interchange, bridge analysis/design, traffic & safety, wetlands, threatened & endangered species, Phase I ESA, environmental justice, socioeconomics, conceptual stage relocation, public & stakeholder outreach, noise/air, & cultural resources.

Approach

Our approach includes regular and ongoing communication to keep all parties involved and informed. **This project will require continuous interaction and communication—both with the LADOTD project team as well as the future selected I-10/LA 429 Team, and ultimately with the stakeholders.** It is vital to the success of the project that early outreach and collaboration occur and having **all team members located within a 15-mile radius** allows the GEC Team to be readily available and on site within short notice. Many of our team members travel this corridor daily & even live within these communities; this allows our team to be responsive & truly connected to the project. GEC understands FHWA/LADOTD's Stage 1 Process and will further the findings from the Stage 0 and all previous studies to receive approval on the environmental and decision document. The GEC Team will ensure quality submittals and efficient delivery of the final environmental document in accordance with *FHWA T 6640.8A Guidance for Preparing and Processing Environmental*. GEC has developed numerous projects in accordance with this technical advisory and will ensure uniformity and consistency in the format, content, and processing of this project in accordance with NEPA.

> The GEC Team will provide a comprehensive outlook, through early coordination, engagement, & outreach, while considering the past, present, & future of the area & continuous collaboration with the team for the nearby LA 429 EA project. A communications protocol will be established at the kickoff meeting with the LA 429 Team to ensure effective coordination throughout the projects' process. GEC's approach to challenges is presented on pg. 104.

Methodology

GEC will follow the steps in the LADOTD Stage 1 Manual, which will consist of the primary phases of work, with tasks as described below. This is a high-level overview of the major scope items that the GEC Team will complete, and the project schedule is a condensed version of this methodology (for space saving purposes).

Project Kickoff Once the NTP is issued, GEC will hold a kickoff meeting with LADOTD, FHWA, consultants, and the LA 429 Team. One of the most important activities in the TEPR and environmental process is the kick-off meeting. It is vitally important to ask the right questions so that consultants and LADOTD are starting the project in alignment. GEC will prepare all materials for this meeting beforehand, including the agenda, project work plan, schedule, and pre-design criteria. Project management agenda items will include points of contact, invoicing procedures, communication protocol, budget, and QA/QC procedures. Other agenda items may include MOEs to be compared, project constraints, preliminary purpose & need (P&N), and requesting and reviewing any available relevant data. Minutes will be prepared, distributed to attendees, and will be a part of the official project record.

> GEC will coordinate thoroughly with the LA 429 Team prior to the next step. We recommend gathering traffic data in a single deployment, ensuring comprehensive coverage for both projects. This approach will eliminate redundant efforts, resulting in a faster timeline, cost-savings, & consistency between both projects.

Traffic, IJR, Line & Grade Studies To expedite the schedule, The GEC Team will complete the traffic and L&G study simultaneously. These tasks will be prioritized early in the project to maintain the schedule. This task is an essential piece of the project, as it sets the foundation for the P&N establishment, alternatives analysis, and public outreach. These tasks are critical path tasks and commonly cause delays in the standard EA process; however, The GEC Team's depth of personnel, availability of staff, extensive knowledge, and expertise will guarantee that the project progresses as intended, mitigating any potential setbacks. Other technical studies may also be completed at this stage to expedite the project or if impacts require further investigation. This could include Phase 1 ESA, Cultural Resources Investigation, noise/air, wetlands, and others.

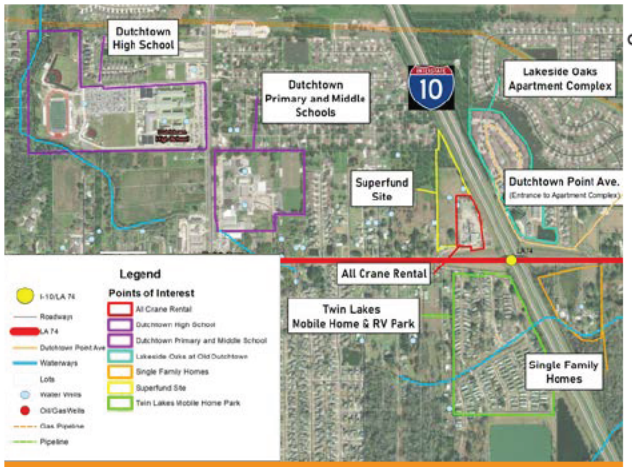


Figure 1

The GEC Team's Project Manager, Bliss Bernard, PE, has a proven history of effectively managing NEPA projects through FONSI issuance. Bliss initially creates a comprehensive Work Plan that consolidates the scope of work, schedule, manhours, and budget into a concise document. This framework serves as a reference for managing deadlines and monitoring progress throughout the project. Currently, Bliss is overseeing an FHWA-LADOTD EA project, where progress is tracked using a spreadsheet containing 426 tasks accompanied by a status report, completion date, and notes. These inputs are further linked to another sheet that organizes achieved milestones in chronological order, facilitating effortless tracking for monthly invoices and status updates at any given time.

INITIAL & FINAL DATA COLLECTION: The GEC Team will review and verify all previous studies and data provided by LADOTD. **Arcadis completed the I-10 (LA 73/74/429) Interchange Feasibility Study for LADOTD, which adds valuable knowledge to the GEC Team, given we have already analyzed traffic and 13 interchange alternatives in a Tier 1 Matrix.** If additional data

is needed, GEC will contract a firm to collect traffic/speed data, ensuring the counts are taken at approved locations and have strict adherence to TEPR requirements. **Appendix A, Appendix B, and Chapter 1 (Data Collection)** will be submitted.

EXISTING/NO-BUILD, TIER 1/PRELIMINARY TIER 2 VERIFICATION: The prior existing Tier 1/Tier 2, Existing/No-Build at LA 73 & 30 ramp terminals, and other existing data will be reviewed to ensure they are warranted for this project. The GEC Team will ensure consistent MOEs are used throughout the process so that the results can be accurately compared. Arcadis will use HCS7 to perform a multi-period analysis and will include MOEs such as: V/C ratio, 95th percentile queue lengths, delay, density, and speed. Previous studies will be reviewed, and crash data will be updated for the corridor using LADOTD's Highway Safety Analysis Toolbox and the CAT Scan tool. All future planned projects, developments, and the trend in traffic growth within the study area will be considered. This information will be used to update and/or develop **Appendix C (Safety Analysis), Appendix D, Chapter 2 (Existing/No Build), Draft Tier 1 & Preliminary Tier 2, and Cap-X.** The "Tier 1/Tier 2 Meeting" will be held to discuss the findings and recommended alternatives.

FINAL ALTERNATIVES ANALYSIS: Arcadis will begin performing the Final Alternatives Analysis, which includes:

Tier 2 Analysis- An operational analysis will be performed to determine any operational deficiencies. Critical geometry as a part of conceptual plans will be developed in a collaborative effort between the traffic and L&G teams, to ensure the geometry addresses the results of the traffic analysis. The safety analysis will be performed to assess the impacts of the alternatives to safely operate and accommodate traffic. An evaluation matrix will be developed to compare alternatives based on identified criteria, appropriately weighted for this project. Some of the criteria that may be relevant to this project include congestion, safety, cost, environmental and ROW impacts. Parts of **Appendix E (Tier 2 Analysis)** will be developed, and the Tier 2 Meeting will be held before proceeding to Tier 3.

Tier 3 Analysis- GEC and Arcadis will work together to expand and refine the conceptual plans to include the geometric layout and the signing and striping layouts. Parts of **Appendix E (Tier 3 Analysis), Chapter 3 (Alternatives Analysis Summary),** and the QA/QC Document will be prepared and submitted.

FHWA 8 Policy Points- **FHWA's 8 Policy Points** will be addressed, and we will provide all justification and documentation to substantiate proposed changes to the interstate system, in accordance with this policy, including the **checklist**. This will be included in both the traffic report and the NEPA document.

Final Alternatives Analysis- Once prior approval has been obtained, the **Executive Summary** and **Introduction** sections, compilation of **Appendix E** from previous tasks, and compilation of all chapters and appendices will be submitted in draft form. Once approved, the report will be finalized.

> Arcadis completed a Tier 1 for the I-10/LA 74 Interchange to identify interchange types for further analysis that address the P&N and conform to identified constraints. Cap-X software was used to perform a comparison of the operational performance, and it was determined all 13 interchange types are operationally feasible; therefore, operations weren't considered a differentiating factor in the selection of alternatives for further analysis. An evaluation of the interchanges revealed a limited availability of ROW and constraints in each of the 4 quadrants, as shown in Figure 1. As a result, most interchange types are expected to result in significant impacts to these areas which include a superfund site, industrial business, apartment complex, mobile home park, and single-family homes. GEC will consider interchange types that have less significant impact on the aforementioned areas.

L&G REPORT: The GEC Team will further the findings from the previous studies in analyzing 3 alternatives: (1) Partial Cloverleaf A (2 Quad) in the NW and SE quadrants, (2) TUDI with signals/roundabouts, and (3) TUDI replacing the NE ramp with a SE loop ramp. Additionally, other alternatives may be developed as a result of this process. The GEC Team has developed conceptual exhibits for the 3 identified interchange types to better understand potential constraints/impacts for this proposal (Figure 2), and 13 exhibits and renderings of other interchange types have also been developed as discussed previously. The L&G Study will build upon this preliminary work, further producing detailed L&G plans and renderings.

The GEC Team will obtain existing conditions to be used in the consideration of the proposed alignments, some of which GEC is already in receipt of, due to early research or direct involvement with projects. The GEC Team will establish the design criteria at the kickoff meeting and refine it based upon the analyses. GEC will develop the range of alternatives that meet the project's P&N, develop conceptual plans and renderings, and perform alignment studies for each identified alternative. L&G Exhibits will include typical sections and plan and profile views displaying the existing and proposed data for each alternative. This will encompass lane & interchange configurations, typical sections, hydraulics, horizontal/ vertical geometries, roadway grades, ROW, list of impacts, curve & intersection geometry, signage/striping, dimensioning, and other required schematics. GEC will incorporate geometrics based upon results from the traffic study as well as the constructability review by GEC in-house construction staff. The L&G Report will summarize the alternatives, cost estimates, ROW, utilities, access documentation, construction, and design reports or required waivers and exceptions. The Lakvold Group's findings in the CSRP will be incorporated into the report.

Technical Studies The additional technical studies may include but are not limited to air & noise study, wetlands delineation, cultural resources survey, T&E species study, Phase 1 ESA, Section 4(f) and 6(f). **These technical studies will be completed concurrently with one another, as most of them are not dependent upon one another.** To ensure efficient delivery of the project, these simultaneous tasks will reduce delays that are commonly encountered in the environmental process. Some of the scope element challenges and the GEC approach are detailed on pg. 104; this is not an all-inclusive list, but it captures some of the technical studies that are associated with challenges.

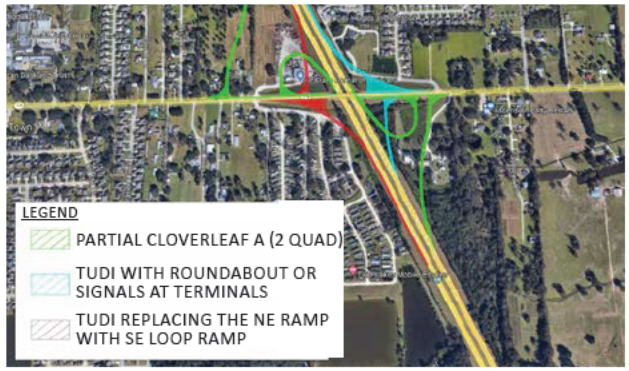


Figure 2

> In addition to GEC's NEPA experts, our team includes GSRC, which brings valuable local expertise in cultural resources, wetlands, biological resources, & NEPA documentation. Arcadis contributes their extensive background in transportation & NEPA documentation including national technical expertise in NEPA policy & expertise in noise/air, wetlands, road/bridge/interchange design, & Phase I ESAs. Finally, to ensure effective communication and successful public/stakeholder outreach, M/G Media strengthens the team as one of the state's most experienced public engagement professionals for transportation/NEPA projects.

Constraint Mapping An ESRI ArcGIS database will be created in accordance with LADOTD Geospatial Data Standards and shared with LADOTD early on to access at any point during the project. GEC has already begun developing this GIS database as displayed in Figure 1. All environmental and engineering data will be consolidated onto one common basemap that LADOTD or other personnel who have permissions can access at any time. An inventory of all known environmental, social, and cultural resources within the study area will be expanded upon using secondary source data and will be continuously updated and supplemented with primary source data.

Public & Stakeholder Outreach A key to project

success is early, frequent, and transparent outreach to all interested parties. GEC has already obtained the parcel map from the Ascension Parish Assessor that details landowners within the study area as displayed in Figure 1; this will be used to develop the mailing list contained within the Public Involvement Plan (PIP), which will both be continuously updated throughout the project and supplemented with LADOTD's stakeholder lists, federal/state agencies, and local/regional stakeholders. The GEC Team will re-envision traditional public outreach tools to accommodate a range of people, varying limitations, and barriers of diversity to engage as many people as possible—this may include a project website, social media, online meeting rooms, surveys, hybrid meetings, and focus group meetings. GEC will develop the SOVs, invite cooperating and participating agencies to participate, host the scoping meeting, and solicit comments on the P&N, alternatives, and throughout the alternative's refinement. Right-of-entry letters may be developed early on if it is anticipated that early landowner access will be required for preliminary studies. All outreach will be held in accordance with LADOTD Stage 1 Public Involvement Procedures. The GEC Team will handle all arrangements associated with public involvement events, including coordinating the format, reserving the venue, preparation and mailing of public notices, exhibits, presentations, handouts, and will prepare the summary of comments and minutes for approval and distribution.

> We will ensure cohesive public outreach in conjunction with the LA 429 Team. Meeting materials will be easily understandable, visually appealing, & consistent in messaging. During initial coordination with the LA 429 Team, GEC will identify outreach activities that can be conducted jointly and noted in the PIP.

Alt. Evaluation, Summary, & Refinement An alternatives summary will be developed including updated study area maps, exhibits, environmental resources maps, preliminary alternatives matrix, and cost estimates. The document will objectively evaluate all reasonable alternatives and quantitatively analyze potential environmental impacts, briefly summarizing the methodology employed to screen the alternatives, reasons for the elimination of any alternatives, and describe stakeholder outreach activities performed.

Environmental Documentation Prior to environmental documentation, the GEC Team will provide

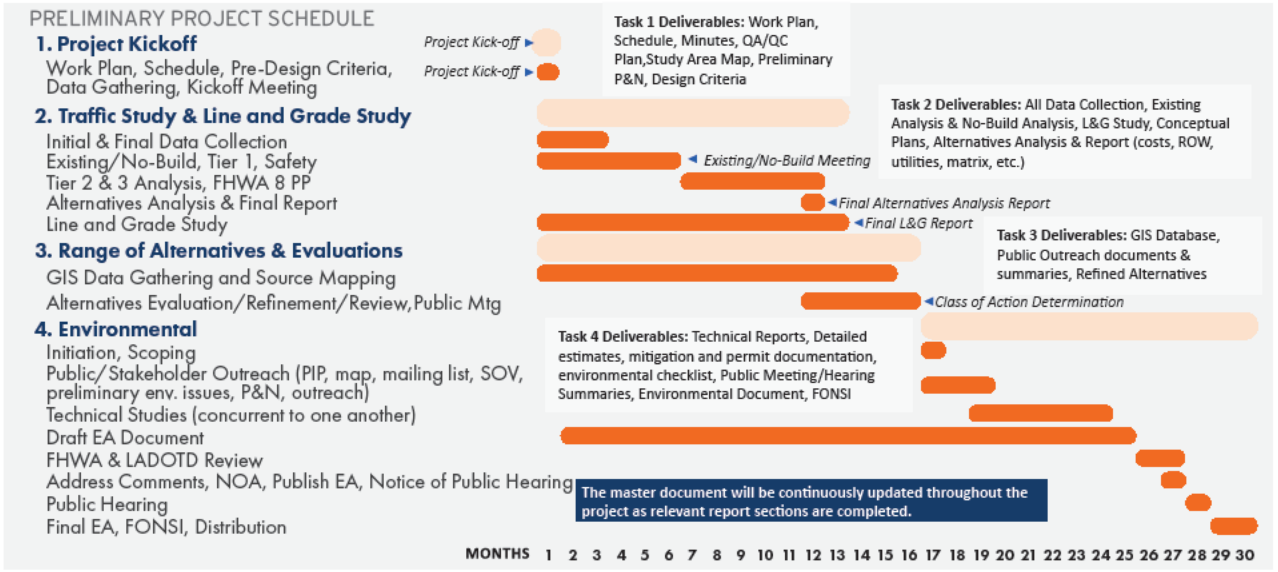


Figure 3

LADOTD with all information obtained in the prior steps and assist as needed to confirm the class of action with FHWA. This important task must be completed prior to the initiation of the preparation of the environmental document. The GEC Team will assist LADOTD in preparing the initiation letter, which officially marks the start of the NEPA Process. The GEC Team will ensure this phase complies with CEQ requirements by completing it within 1 year of the initiation date. The GEC Team has already prepared the standard template for LADOTD-FHWA EA Documents in accordance with FHWA T6640.8A.

The GEC Team understands that all efforts preceding this task are vital information that will be summarized in the final document. We will continuously update the relevant document sections as they are completed throughout the project process to expedite the project schedule. The results from each of the technical studies, alternatives analysis, impacts, stakeholder outreach, and all efforts performed prior to this stage will be summarized in the relevant sections. A summary of permits, mitigation, and commitments will be developed. The document will summarize the existing conditions and environmental effects associated with the alternatives and the No-Build including, but not limited to the following topics: land use, farmland, wetlands, water resources, floodplains, T&E species, aesthetics, hazardous waste, traffic, RECs, air and noise quality, cultural resources, historic properties, socioeconomics, community impacts, environmental justice, relocations, Section 4(f) and 6(f), utilities, indirect, cumulative, and construction impacts. For all identified unavoidable adverse impacts, GEC will justify these impacts and define measures to minimize impacts. The Preferred Alternative, and its justification for selection, will be detailed in the environmental document.

The Draft EA will be reviewed by the lead & cooperating federal agencies. Based upon the comments received, responses to comments will be prepared & comments will be addressed & submitted to FHWA for distribution approval. Following approval, a Notice of Availability (NOA) will be published in newspapers and sent to stakeholders identified in the PIP, and the EA will be made available at libraries, DOTD District Office, online, & other relevant locations for public/agency review and comments.

Public Hearing Upon approval of the document, GEC will distribute the EA & advertise its availability. To minimize the number of ads & to expedite the project, GEC can also publish the notice of Public Hearing along with the NOA. The Public Hearing will be arranged to have a presentation station, exhibit station, sign in station, comment station, & any others. GEC will document comments in a matrix and in the public hearing transcript.

Decision Document GEC will prepare the Final EA and Draft FONSI for LADOTD and FHWA review and approval, distribute the NOA on the FONSI, and provide final documents for the official record.

Scope Challenges & GEC's Approach

Our team's initial data reviews, field visits, and reviews of prior studies and project history led to the identification of some scope elements and challenges, presented below with our Team's Approach/Solution.

PAST, PRESENT, FUTURE | The fastest growing parish in the state, by percent growth, is Ascension Parish. The Human Development Index (HDI) is a measure of a region's achievement in 3 basic aspects: health, education, & income. In 2020, Ascension Parish was the highest scoring parish in the state. July 2022 Census population estimates 130,458 residents comprise Ascension Parish, & according to MOVE2042, is expected to grow by 87,000+ new residents and 81,000+ new employees by 2042.

To prepare for the tremendous growth in residents & jobs, LADOTD, CRPC, & the Parish are currently taking steps to improve & transform the area and GEC will ensure these are taken into consideration for multiple tasks in this project.

LA 74 is an important route that links the Gonzales area to the Dutchtown area & is identified as a high-priority corridor in the Parish's Transportation Master Plan. LA 73, LA 30, & their respective I-10 interchanges experience heavy congestion. The preliminary P&N identified in the 2009 Stage 0 Study is to relieve this congestion and improve safety and mobility by diverting traffic to LA 74 via a new interchange at I-10. The GEC Team will refine this P&N by considering vehicle capacity needs, system linkage needs, transportation demands, social demands, economic development, modal interrelationships, congestion, safety, and roadway deficiencies.

The GEC Team will consider past, present, & future area projects, including any identified by LADOTD and in the Parish's MoveAscension Program, 2020 Ascension Parish Master Plan, CRPC's Move2042 Plan, Passenger Rail Station Master Planning, 2019 Ascension Parish Master Land Use Plan, & other relevant plans. The GEC Team has already read most of these important documents thoroughly & will perform further research to ensure a comprehensive outlook is considered, including the past, present, & future projects such as: the nearby I-10/LA 429 Interchange, Mississippi River South Bridge, LA 30 Widening, LA 30/I-10 Interchange Improvements, LA 30 Roundabouts at I-10 industrial expansions, LA 429 Connector, LA 74 Widening, I-10 Widening, nearby new roadway connections at LA 74/C Braud Road & LA 73/LA 928, the future extension of LA 74 to connect to LA 934, passenger rail service, commuter bus routes and potential park and ride locations. The GEC Team will use this information in analyzing socioeconomic & community impacts, as it pertains to impacts to upcoming projects, planned developments, long-range plans, indirect, & temporary impacts.

COLLABORATION WITH LA 429 TEAM | Collaboration between the consulting team for the nearby LA 429 Connector EA project is imperative to the success of both the LA 74 and LA 429 projects

GEC will welcome the LA 429 team as an extension of our own team, serving as a liaison, not competition.

The GEC Team will create a communications protocol during project implementation to establish regularly scheduled coordination between both project teams to discuss progress, share information, and ensure transparency. The GEC Team will also create a SharePoint site to easily share data between teams and LADOTD.

The GEC Team recognizes that some of the scope items of both teams may overlap (i.e., traffic data collection, technical studies), & proposed improvements from each project could impact the other. During project implementation, GEC will coordinate with the LA 429 Team to strategically plan and coordinate these efforts to reduce duplication, ultimately reducing costs and expediting the timeline. GEC Team will also collaborate to ensure LA 429 project alternatives are implemented and analyzed for the LA 74 project.

CONSTRAINTS LIMIT VIABLE INTERCHANGE ALTERNATIVES | The Project Area includes multiple environmental constraints that limit viable alternatives for interchange design, including a Superfund Site (LAD980879449) & commercial building in the northwest quadrant, single family homes (SE quadrant), multi-family homes (NE quadrant), & mobile homes (SW quadrant) as displayed in Fig.1.

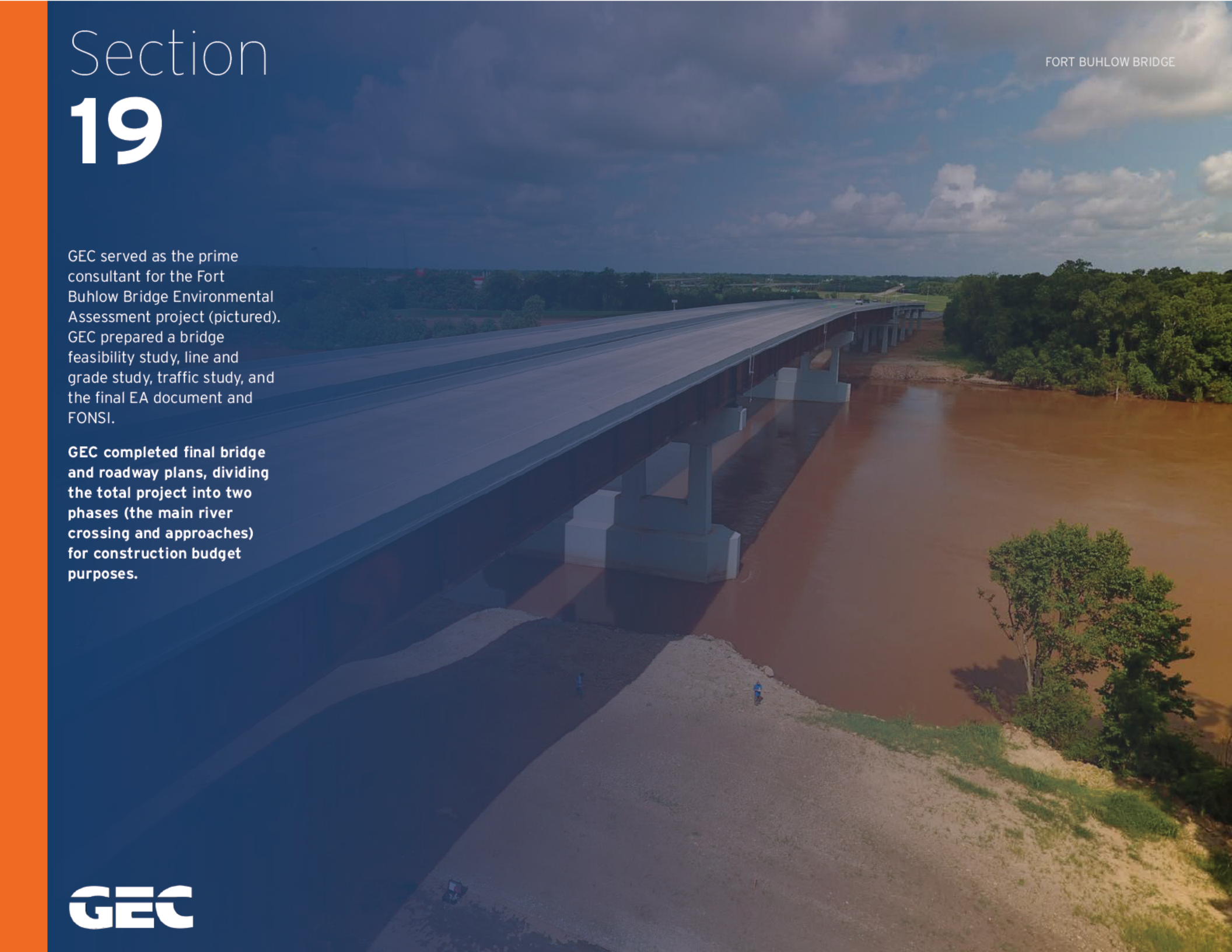
The 5-acre Superfund Site (Dutchtown Treatment Plant) began as an oil refinery and waste oil reclamation site in the mid-1960s. EPA took the site off the Superfund program's NPL in 1999 and is currently in O&M status, where the EPA has performed five, 5-year reviews so far (most recently completed 3/16/21). The GEC Team (Arcadis) performed monitoring and maintenance inspections for the Superfund Compliance Program for this site through 2018. Although the site is nearing administrative closure, impacting the site would be cost prohibitive due to the estimated remediation and waste management costs for excavating the capped in place hazardous materials; therefore, the LA 74 interchange must avoid the site. The alternatives identified in the Stage 0 Report do not encroach upon the former Superfund site; however, during the development of this environmental document, additional alternatives may be identified that encroach upon this site. The GEC Team performed the interchange feasibility studies for the project and has studied suitable interchanges that would avoid impacts to the superfund site. Further coordination with EPA and LDEQ will be necessary during the EA process. The GEC Team will solicit views and invite the EPA and LDEQ to be participating agencies early in the process, so that they are involved, informed, and can offer feedback. The GEC Team will also perform an Environmental Site Assessment to further assess the site as well as the rest of the project area.

According to the US Census Bureau, 15.3% of individuals in the SW quadrant (Tract 303.03) are below poverty level, & Twin Lakes Mobile Home & RV Park, situated within this quadrant, provides low-income housing. The GEC Team will conduct a comprehensive environmental justice & socioeconomic evaluation to ensure that alternatives do not disproportionately affect low-income/minority populations. We are committed to providing meaningful public outreach & ensuring our efforts are equitable & inclusive.

In the southeast quadrant, five residential parcels (3 owners), comprised of four single-family residential homes and associated detached buildings are directly adjacent to the corridor and could be impacted by the proposed interchange alignments. The Preserve at Old Dutchtown Apartment Complex, Lakeside Oaks Apartment Complex, and the Old Dutchtown subdivision and the access road, Dutchtown Point Avenue, are located within the northeast quadrant and will require relocation. The northwest quadrant includes commercial property (4.74 acres), which is the site for All Crane Rental of Louisiana, which will require relocations. The GEC Team will develop the Conceptual Stage Relocation Plan (CSRP), which will identify the extent, scope, and effects of relocations that may be caused by each alternative. The GEC Team will analyze alternatives to ensure acquisition, relocation, and impacts to sensitive areas are minimized by some of the following methods: (1) gathering accurate parcel data from the Ascension Parish Assessor, (2) coordination with landowners, and (3) shifting alignment in areas to minimize impacts to businesses and homes.

GEC will evaluate unique solutions and develop alternatives that limit the number of commercial and residential relocations and ensure alternatives will not disproportionately impact low-income or minority populations. As evident with the College Drive Flyover Project, the GEC Team is known for implementing innovative designs to address impacts to surrounding areas. GEC introduced a new design concept that was unforeseen in previous studies and design; this design simplified the traffic movement through a reduced project footprint versus previous conceptual alternatives. Additionally, GEC's staff had the opportunity to review the first Diverging Diamond Interchange (DDI) with reduced crossover spacing in the State for the I-10/Loyola Interchange Improvement Project; the reduced crossover spacing minimized the ROW impacts typically associated with other interchange types.

Section 19



FORT BUHLOW BRIDGE

GEC served as the prime consultant for the Fort Buhlow Bridge Environmental Assessment project (pictured). GEC prepared a bridge feasibility study, line and grade study, traffic study, and the final EA document and FONSI.

GEC completed final bridge and roadway plans, dividing the total project into two phases (the main river crossing and approaches) for construction budget purposes.

19. Workload

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State project number	Project name	Remaining unpaid balance**
G.E.C., Inc.	Road	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	70,810
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	800,000
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	89,160
G.E.C., Inc.	Bridge	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	15,272
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Bridge & Sound Walls) (Sub to Huval)	83,600
		S.P. # H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	174,800
		44-04900, H.004540.5	Leeville to Golden Meadow, Route LA 1 Relocated, Const. Engineering Services (Sub to HNTB)	219,878
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR	3,639
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	802,000
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	148,795
G.E.C., Inc.	Environmental	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	67,131
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1	200,000
G.E.C., Inc.	ITS	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	19,447
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	79,000
G.E.C., Inc.	CE&I/OV	44-23074, H.010724.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Pecan Island Road Over the Chenal	0
		44-23074, H.012465.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Flashing Yellow Arrow Part 3	415,594
		44-23074, H.010960.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 30 Roundabouts at Tanger Mall and I-10	675,069
		44-23074, H.015022.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 976: LA 81 - US 190	36,053
		44-23074, H.014694.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 426: LA 73 - Sherwood Forest	175,686
		44-23074, H.014930.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Rumble Strips: District 61 - Area C	63,701
		44-19950, H.002735.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - Bayou Vermillion Bridge	31,498
		44-19950, H.003003.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-10: I-49 - LA 328	19,147
		44-19950, H.002868.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-49 S: Amb Caffery / US 90 Interchange	788,725
		44-19950, H.013265.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - US 90: LA 14 to LA 83	541,875
		44-14315, H.003370.6	IDIQ for Painting Inspection & Environ. Monitoring with CE&I, Statewide - I-220/I-20 Interchange IMP & BAFB Access	0
		44-14315, H.010000.6	IDIQ for Painting Inspection & Environ. Monitoring with CE&I, Statewide - US 171: Calcasieu River Bridge Repairs	61,754
		44-17006, H.011670.6	I-10/Loyola Interchange Improvements, Jefferson Parish	764,721
		44-23897, H.011965.6	LA 47: IWGO Bridge Rehabilitation (HBI) (CE&I) (sub to GPI)	1,817,361

G.E.C., Inc.	Other (Electrical)	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	301,419
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	242,045
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	45,000
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	54,012
		44-11354, H.013442.6	IDIQ Contract for Electrical Statewide-I-10: Crowder Boulevard Interstate Lighting (Expires 7/3/24)	43,208
		44-11354, H.013617.6	IDIQ Contract for Electrical Statewide-I-10: I-610E Interchange Lighting, T.O. #1 (Expires 7/3/24)	152,006
		44-11354, H.014552.5	IDIQ Contract for Electrical Statewide-I-49: LA 31 Interchange Lighting (Opelousas), T.O. #2 (Expires 7/3/24)	236,672
		44-11354, H.014556.5	IDIQ Contract for Electrical Statewide-I-49: US 190 Interchange Lighting (Opelousas), T.O. #3 (Expires 7/3/24)	273,125
		44-11354, H.014557.5	IDIQ Contract for Electrical Statewide-I-49: Judson Walsh Drive Interchange Lighting (Opelousas), T.O. #4 (Expires 7/3/24)	282,786
		44-11354, H.014553.5	IDIQ Contract for Electrical Statewide-I-49: LA 3233 Interchange Lighting (Opelousas), T.O. #5 (Expires 7/3/24)	376,863
		44-05660, H.012874.6	Retainer Contract for Electrical Services - I-55: LA 22 Interstate Lighting (Sub to Buchart-Horn)	20,153
G.E.C., Inc.	Other (DOTD Support Services)	44-17329	Retainer Contracts for Innovative Procurement and Alternative Delivery Support Services (Sub to HNTB Corporation) (No Task Orders Issued) (NOTE: No work expected for GEC under this Contract.)	0
G.E.C., Inc.	Other (Program Management)	44-16958	Road Transfer Program Management, Statewide (NOTE: The Average Annual billing is approx. $290,000/ year. We are in year 3 of 6. This billing represents 1 person stationed at DOTD. Thus, unlikely to bill this entire remaining balance. (Program Management ONLY – NO Planning, Road or Bridge Design work).	1,456,292
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A. #1	200,000
		44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	164,029
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	16,263
The Lakvold Group, LLC	Appraisal	H.004100	I-10: LA 415 to Essen on I-10 and I-12, East Baton Rogue	$179,000
Arcadis	Environmental	44-09703, H.000688.2	US 11 Norfolk Southern Railroad	$3,008
Arcadis		44-07175, H.011328.2	I-49 South (Ricohoc to Berwick)	$804,100
Arcadis		44-19338 (multiple State Project Numbers)	Rural Bridge Replacement Initiative Phase II – Multiple State Project Numbers – Districts 02, 03, 07, 61, & 62	$137,291
Arcadis		44-09281, H.009932	US 80 Widening: Vancil Road to Well Road EA	$5,343
Arcadis		44-24307, H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$85,327
Arcadis	Traffic	44-07175, H.011328.2	I-49 South (Ricohoc to Berwick)	$171,365
Arcadis		44-24204, H.012889.5	I-20 Rehab (Pines Road to I-220)	$80,568
Arcadis		44-18646, H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$85,960
Arcadis		44-17033, H.005121	LA 1/LA 415 Connector	$47,276
Arcadis		44-14845, H.012018.6	Adaptive Traffic Signal Design and Implementation	$17,741
Arcadis		44-19379, H.013797	LA 30: EBR PL – I-10	$335,730

Arcadis	Traffic	44-21121, H.000413	Cross Bayou Bridge Replacement	$81,025
Arcadis		44-24307, H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$226,545
Arcadis		44-23690, H.015213.5	District 04 Pedestrian Safety Improvements	$240,400
Arcadis		44-21325, H.012837.5	I-10 New Orleans Master Plan	$513,925
Arcadis	Road	44-07175, H.011328.2	I-49 South (Ricohoc to Berwick)	$342,731
Arcadis		44-16923,H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	$235,299
Arcadis		44-19010, H.010116.5	LA 1088: Soult and Trinity Roundabouts	$83,268
Arcadis		44-24084, H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	$109,063
Arcadis		44-24307, H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$106,659
Arcadis	Bridge	44-18646, H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$158,055
Arcadis		44-21121, H.000413	Cross Bayou Bridge Replacement	$124,127
Arcadis	ITS	44-16811, H.013868.5	ITS Program Management and Operations (2022)	$62,300
Arcadis		44-16811, H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2022)	$102,869
Arcadis		44-16811, H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I) (2022)	$48,527
Arcadis		44-16811, H.013868.5	ITS Program Management and Operations (2023)	$669,693
Arcadis		44-16811, H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2023)	$674,294
Arcadis		44-16811, H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I)	$154,188
Arcadis		2000715744 / 2000719098 / 2000719099 / 2000733237	Scope for Damaged Electrical for I-10 Atchafalaya Bridge / I-20 @ Bert Kouns CCTV Upgrade / DMS Site Communication Upgrades / Ethernet and Power Surge Protectors	$18,750
Arcadis		44-18646, H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$33,275
Arcadis	CE&I/OV	44-25046, H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	282,879
Arcadis	Data Collection	44-21325, H.012837.5	I-10 New Orleans Master Plan	$89,805
GSRC	Environmental	4400014188	IDIQ Contract for Cultural Resources Services	$42,000
GSRC		4400015812	IDIQ Contract for Environmental Services Statewide	NA
GSRC		40000099	Retainer Contract for Right of Way Forestry	NA

MGM	Planning	4400015733, H.972374.1	Local Public Agency Documented Planning Process-Statewide	$60,302
MGM		4400021094, 79436 (HNTB)	Update Statewide Transportation Plan	$55,867
MGM		4400022830, 061334000 (Kimley-Horn)	LADOTD Americans with Disabilities Act (ADA) Transition Plan Update, Phase 1 – District 3 Pilot Study	$61,470

GSRC = Gulf South Research Corporation

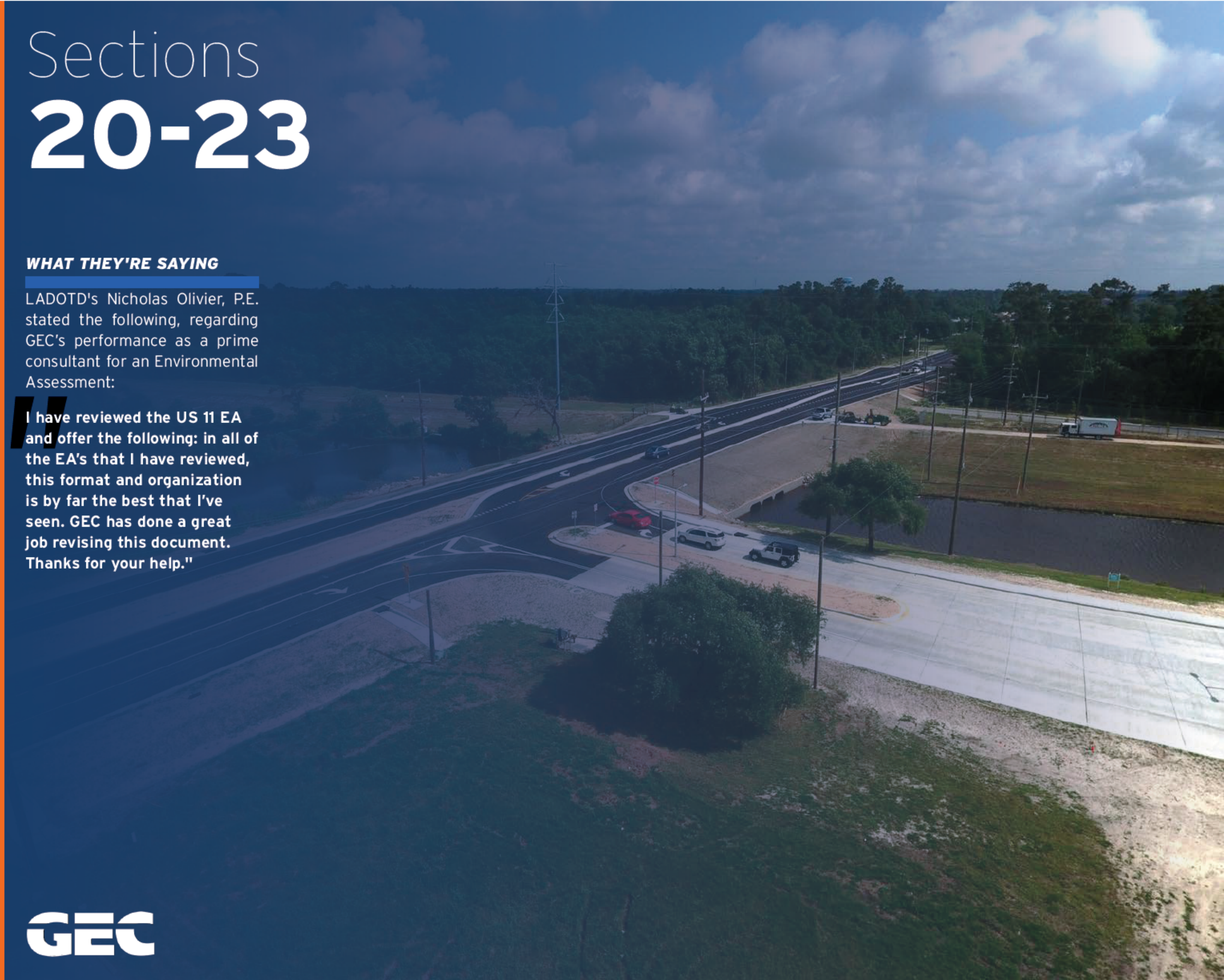
MGM = Marmillion/Gray Media, Inc.

Sections 20-23

WHAT THEY'RE SAYING

LADOTD's Nicholas Olivier, P.E. stated the following, regarding GEC's performance as a prime consultant for an Environmental Assessment:

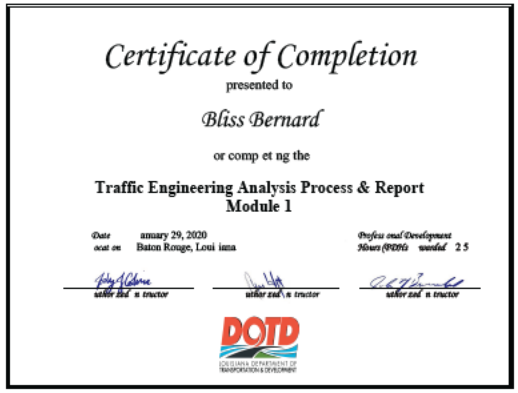
"I have reviewed the US 11 EA and offer the following: in all of the EA's that I have reviewed, this format and organization is by far the best that I've seen. GEC has done a great job revising this document. Thanks for your help."



20. Certifications/Licenses

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

Bliss Bernard



Certificate of Completion

presented to

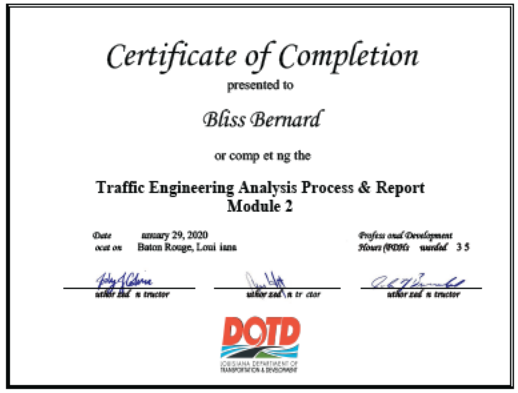
Bliss Bernard

or comp et ng the

Traffic Engineering Analysis Process & Report
Module 1

Date: anuary 29, 2020
oca on: Baton Rouge, Loui iana
Profess onal Development Hours (PDHs) warded: 2 5

DOTD



Certificate of Completion

presented to

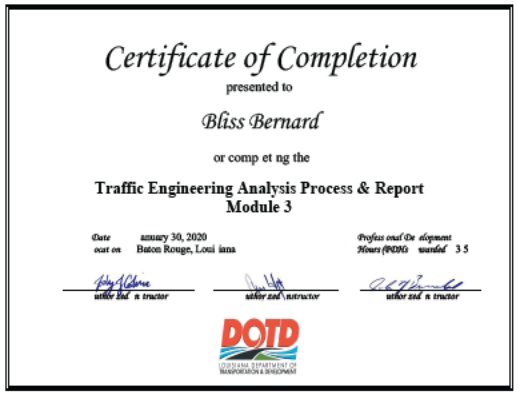
Bliss Bernard

or comp et ng the

Traffic Engineering Analysis Process & Report
Module 2

Date: anuary 29, 2020
oca on: Baton Rouge, Loui iana
Profess onal Development Hours (PDHs) warded: 3 5

DOTD



Certificate of Completion

presented to

Bliss Bernard

or comp et ng the

Traffic Engineering Analysis Process & Report
Module 3

Date: anuary 30, 2020
oca on: Baton Rouge, Loui iana
Profess onal De elopment Hours (PDHs) warded: 3 5

DOTD

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Bliss K Bernard
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

3/12/2021 to 3/12/2021
Date

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA

ATSSA

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that
Bliss Bernard
has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Expiration Date: 2/17/2025
State Issued In: LA
Instructor Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI

Certificate of Training

Bliss Kelley

has participated in

FHWA - NHI Course No. 142005
NEPA and the Transportation Decision-making Process (3 Days)

hosted by

LA DOTD/LTRC

Date: December 8-10, 2015
Location: Baton Rouge, LA
Hours of Instruction: 18

Instructor

Allison H. Landry
Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

Jeffrey Robinson

Certificate of Attendance

presented to

Jeff Robinson

for attending the

National Environmental Policy Act (NEPA) and Transportation Decision Making

and for having been awarded 18 Professional Development Hours

December 3- 5, 2002 (Date) | Baton Rouge, LA (Location) | Sandra Romero (Authorized By)

LTRC
Louisiana Transportation Research Center

Nicole Forsyth

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Nicole Forsyth

has satisfactorily completed training in

National Environmental Policy Act (NEPA) And Transportation Decision Making
conducted by
National Highway Institute

Location: Baton Rouge, LA
Date: August 20-22, 2002
Hours of instruction: 18
Continuing Education Units: 1.8

Instructor
Director, National Highway Institute, Federal Highway Administration
Coordinator
Director, Office of Professional Development, Federal Highway Administration

Laura Carnes

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Laura Carnes

has participated in

NEPA and Transportation Decision Making

hosted by
LA DOTD/LTRC

Date: March 4-6, 2008
Location: Baton Rouge, Louisiana
Hours of Instruction: 18

Instructor
Instructor
Sandra Romero
Local Coordinator
Joseph S. [illegible], Associate Administrator, Office of Professional and Corporate Development

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Laura Carnes

has participated in

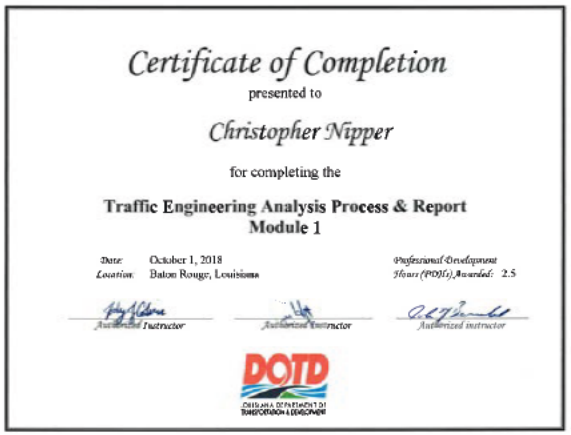
Beyond Compliance: Historic Preservation in Transportation Project Development

hosted by
LA DOTD/LTRC

Date: October 9-11, 2007
Location: Baton Rouge, LA
Hours of Instruction: 18

Instructor
Instructor
Sandra Romero
Local Coordinator
Joseph S. [illegible], Associate Administrator, Office of Professional and Corporate Development

Chris Nipper



Certificate of Completion

presented to

Christopher Nipper

for completing the

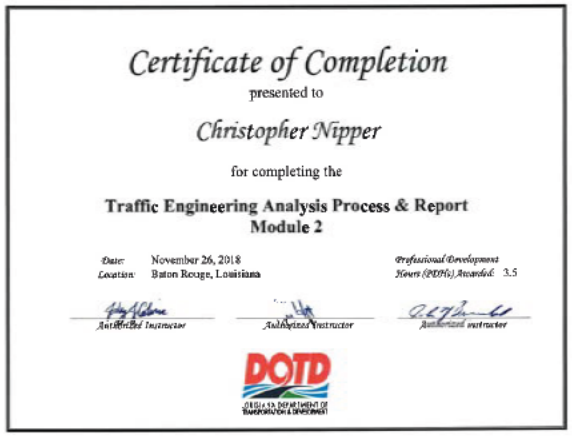
Traffic Engineering Analysis Process & Report
Module 1

Date: October 1, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD



Certificate of Completion

presented to

Christopher Nipper

for completing the

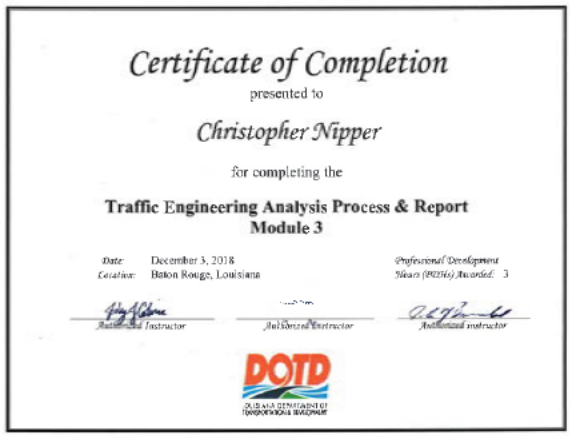
Traffic Engineering Analysis Process & Report
Module 2

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

Christopher Nipper

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

Logan Michel

Certificate of Completion

presented to

Logan Michel

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

Certificate of Completion

presented to

Logan Michel

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

Certificate of Completion

presented to

Logan Michel

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

Thomas Swanson

Certificate of Completion

presented to

Thomas Swanson

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: January 17, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Thomas Swanson

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: January 22, 2019
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

Thomas Swanson

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: February 28, 2019
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Thomas Swanson
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

9/25/2020 to 9/25/2020
Date

Vice President of Member Services

Baton Rouge, LA
Location

President, CEO

ATSSA

Transportation Professional Certification Board Inc.

certifies that

Thomas R. Swanson

has met all of the requirements established by the Certification Board to use the title of

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Unless withdrawn by the Certification Board this certificate number 1016 issued in Washington, D.C. is subject to the provisions for renewal

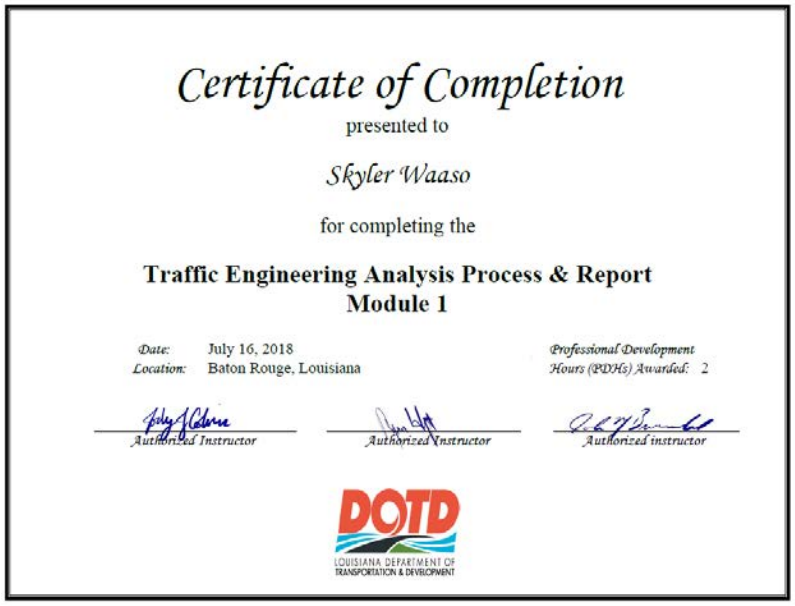
April 10, 2006

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

Skyler Waaso



Certificate of Completion

presented to

Skyler Waaso

for completing the

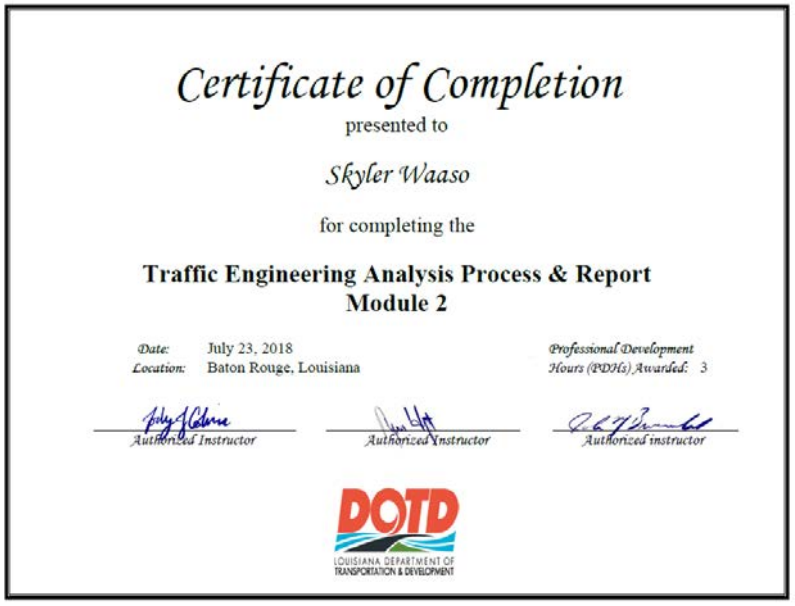
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Skyler Waaso

for completing the

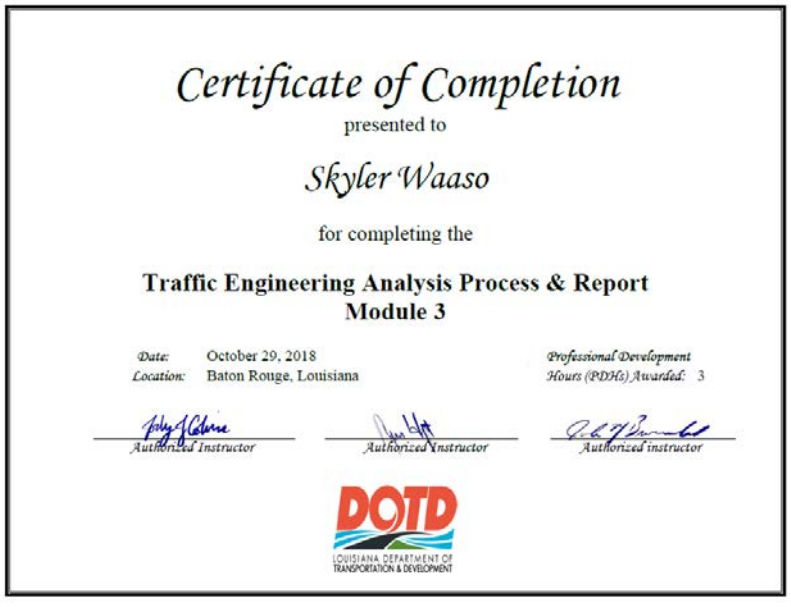
Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Skyler Waaso

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
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Transportation Professional Certification Board, Inc.

certifies that

Skyler James Waaso

has met all of the requirements established by the Certification Board to use the title of

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 1600 issued in Washington, DC, USA

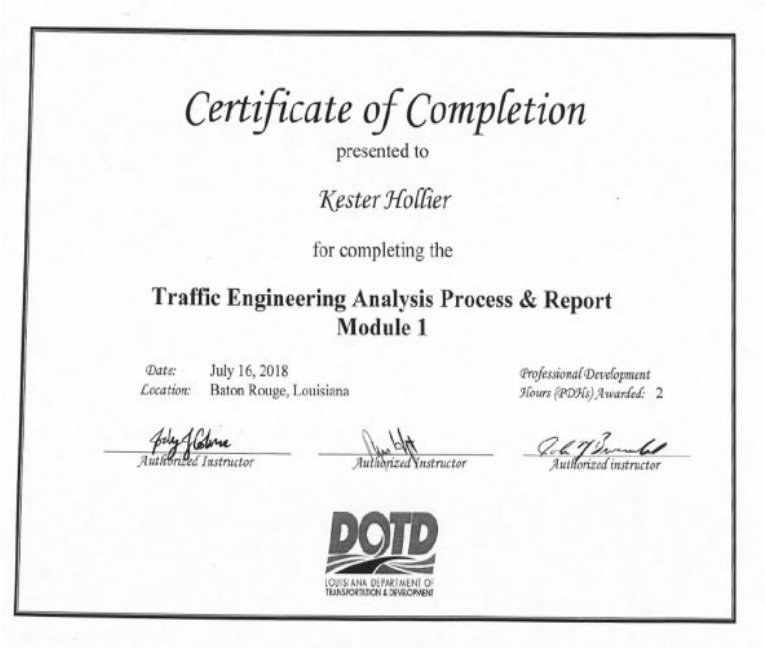
3/27/19

Diane L. Morabito
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director

Kester Hollier



Certificate of Completion

presented to

Kester Hollier

for completing the

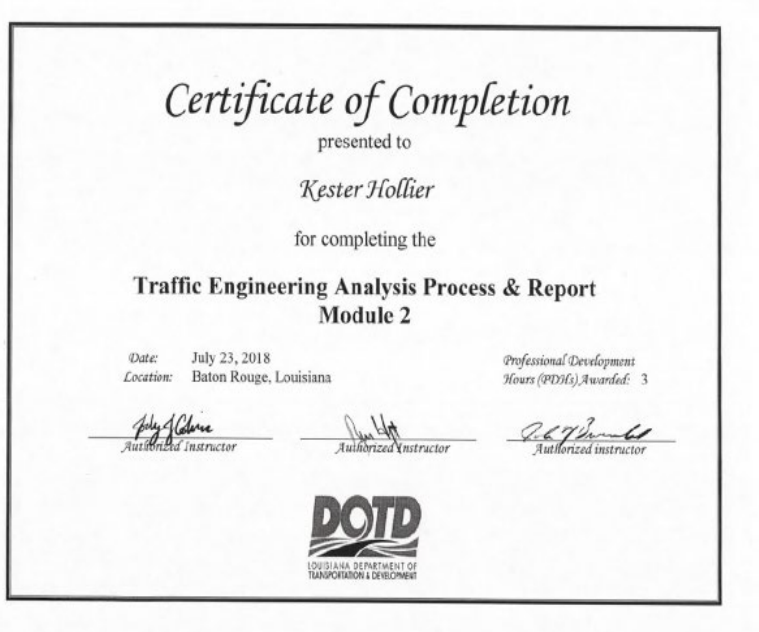
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kester Hollier

for completing the

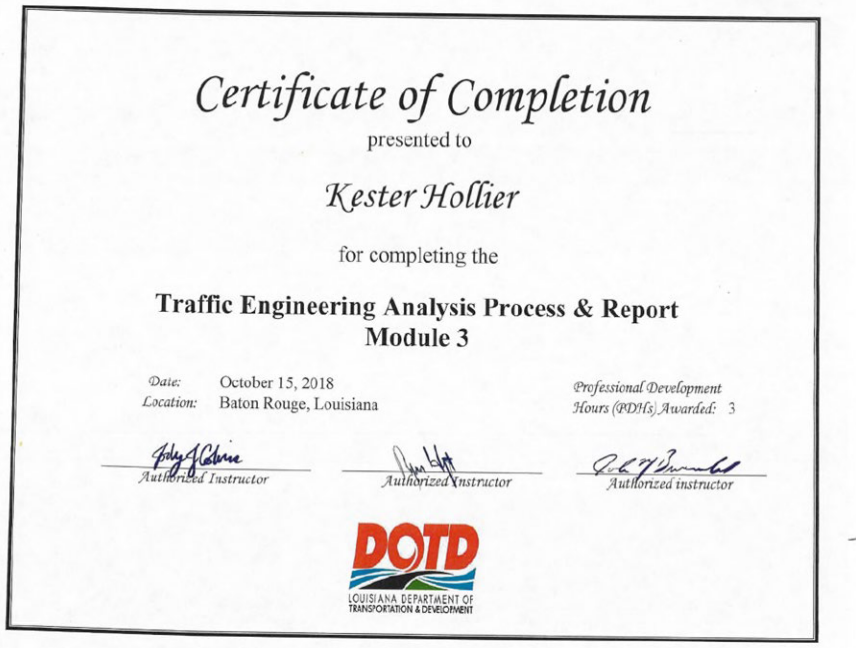
Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kester Hollier

for completing the

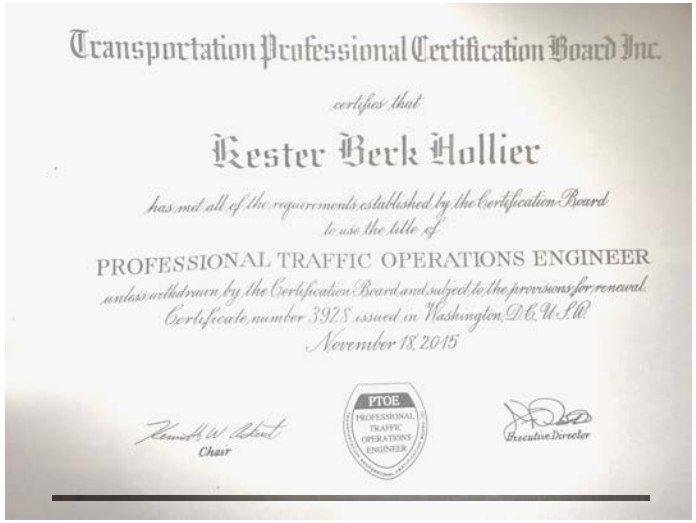
Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Transportation Professional Certification Board Inc.

certifies that

Kester Berk Hollier

has met all of the requirements established by the Certification Board to use the title of

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

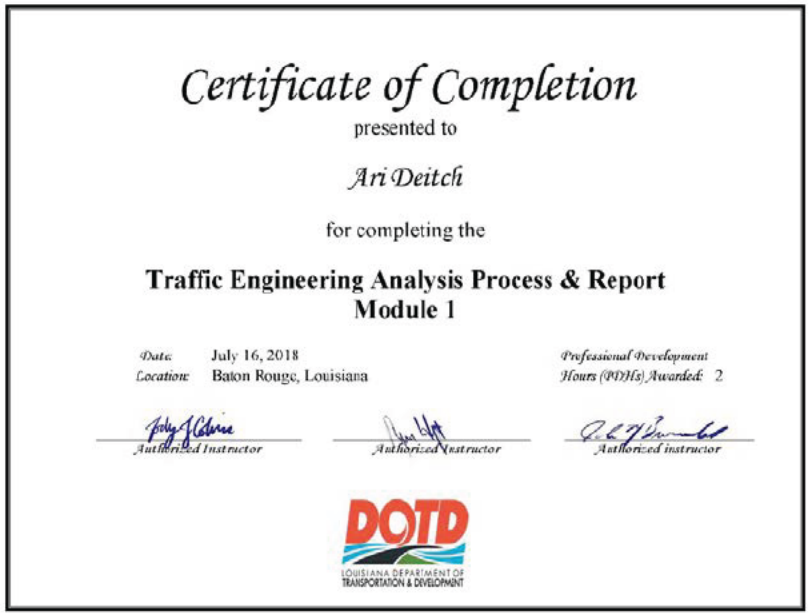
unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3978 issued in Washington, D.C., U.S.A.
November 18, 2015

Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

Ari Deitch



Certificate of Completion

presented to

Ari Deitch

for completing the

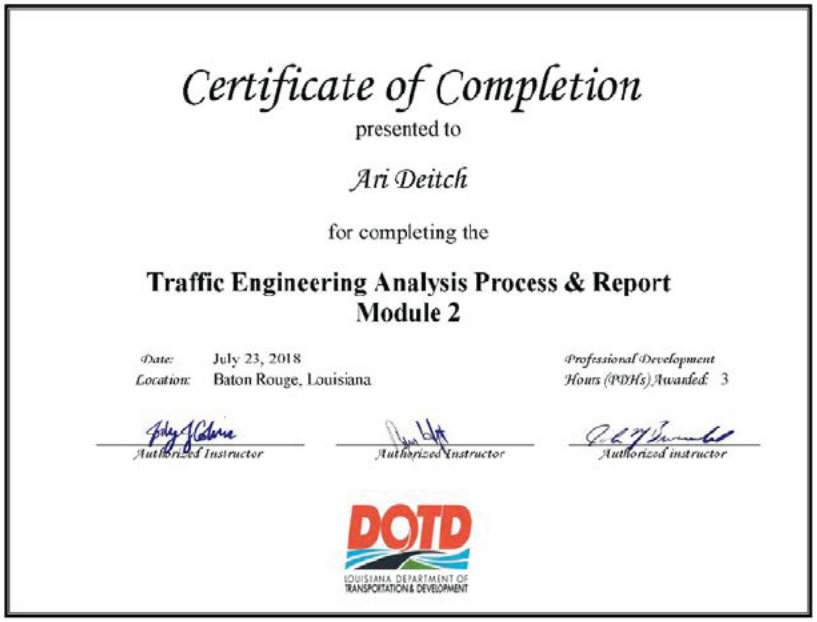
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Ari Deitch

for completing the

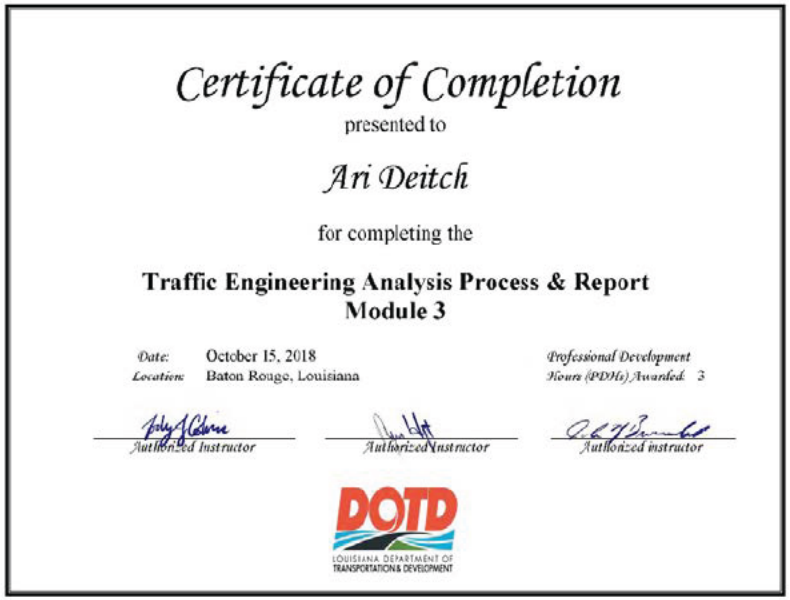
Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Ari Deitch

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
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Ari Deitch

[redacted]

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

has met all of the requirements established by the Certification Board to use the title of

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal. Certificate number 4846 issued in Washington, DC, USA

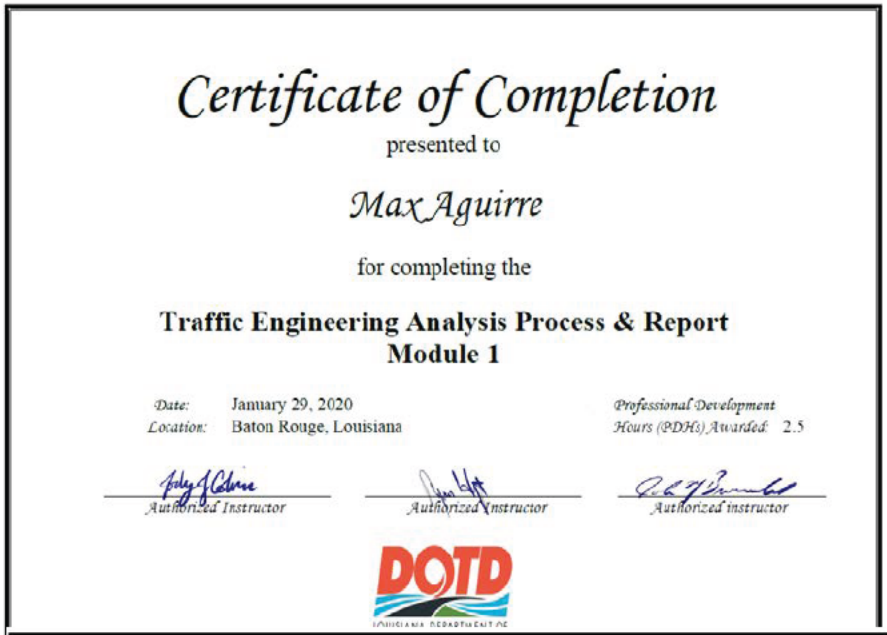
11/20/17

Michael K. Park, Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati, Executive Director

Max Aguirre



Certificate of Completion

presented to

Max Aguirre

for completing the

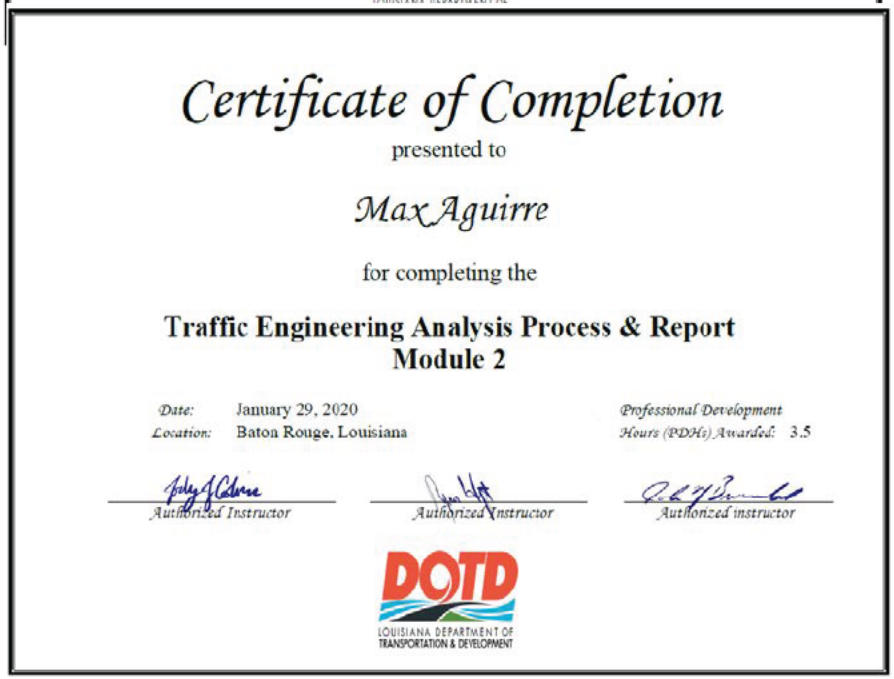
Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD



Certificate of Completion

presented to

Max Aguirre

for completing the

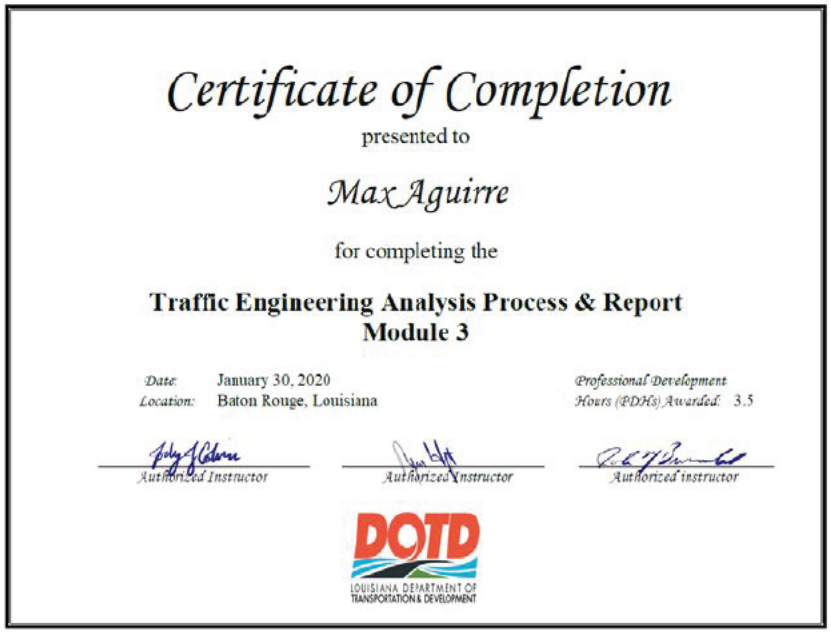
Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 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

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Max Aguirre

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Max Aguirre
has attended
Traffic Control Technician-LA State Specific
Training Course

9/7/2021 to 9/7/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Max Aguirre
has attended
Traffic Control Supervisor-LA State Specific
Training Course

9/8/2021 to 9/9/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.

American Traffic Safety Services Association ATSSA.com

Jan Hughes

National Highway Institute

Certificate of Training

Jan Grenfell

has participated in

NHI Course No. 142049 – Beyond Compliance: Historic Preservation in Transportation Project Development

hosted by

LA DOTD/LTRC

Date: January 29-31, 2013 *Hours of Instruction:* 18

Location: Baton Rouge, LA

Instructor — Local Coordinator

Instructor — Richard Bernsby, Director, National Highway Institute

GSA INTERAGENCY TRAINING CENTER

CERTIFICATE OF TRAINING

This is to certify that

Jan Grenfell

has successfully completed

Introduction to Federal Projects and Historic Preservation Law

June 11-13, 1996

Thomas J Horan
Director

University of Nevada, Reno
Heritage Resources Management Program

This will verify that

Jan Grenfell

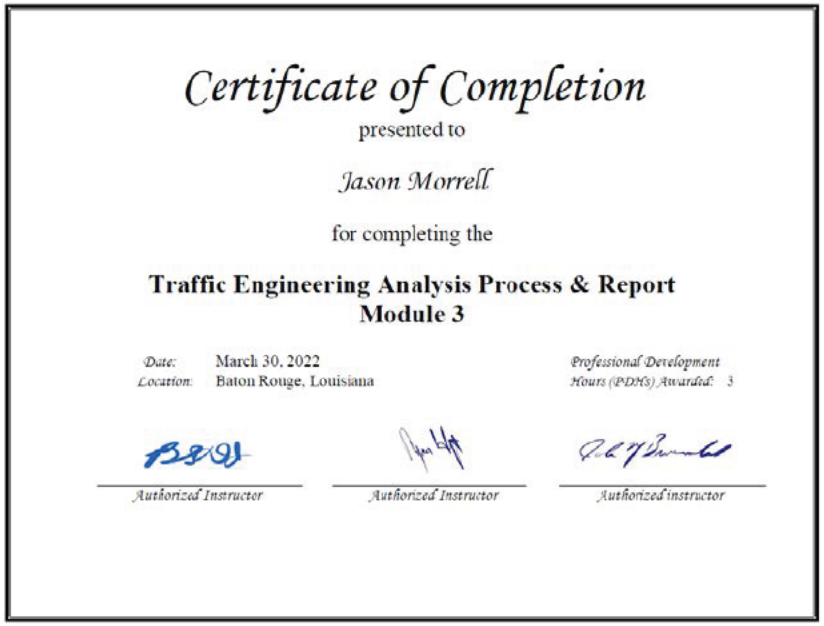
has successfully completed

Introduction to Section 106 Review

New Orleans, Louisiana
July 17-18, 2001

Associate Vice President & Dean, College of Extended Studies — Instructor — Program Director

Jason Morrell



Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized Instructor*

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

JASON MORRELL

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: *December 3-5, 2018*
Location: *Baton Rouge, LA*

Hours of Instruction: 18

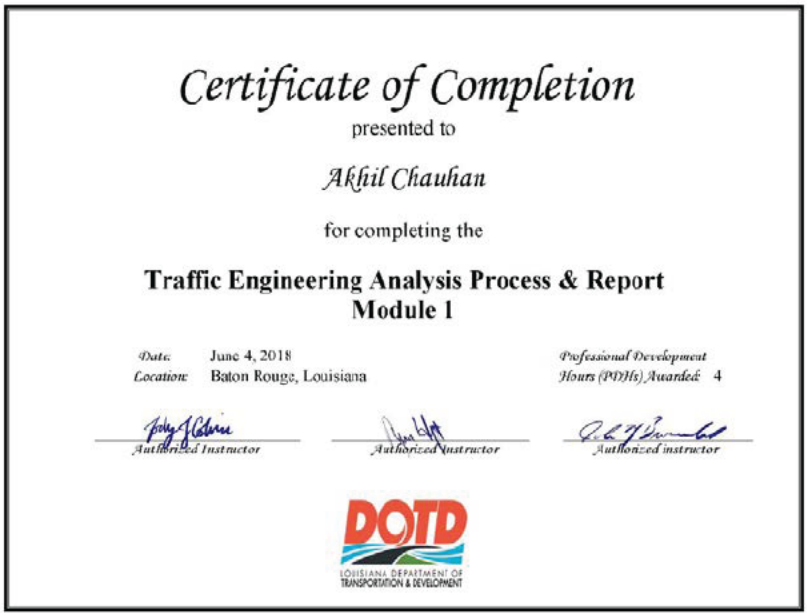
Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

Akhil Chauhan



Certificate of Completion

presented to

Akhil Chauhan

for completing the

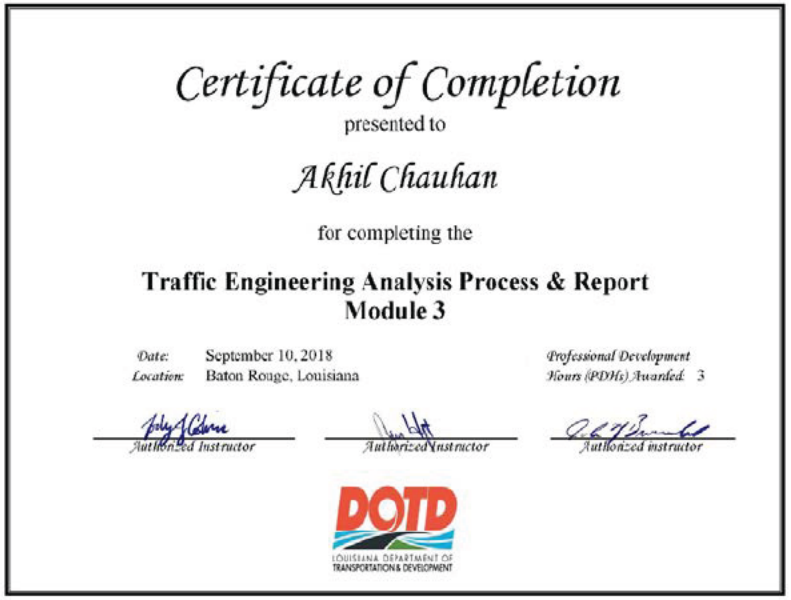
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development
Hours (PDHs) Awarded: 4

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Akhil Chauhan

for completing the

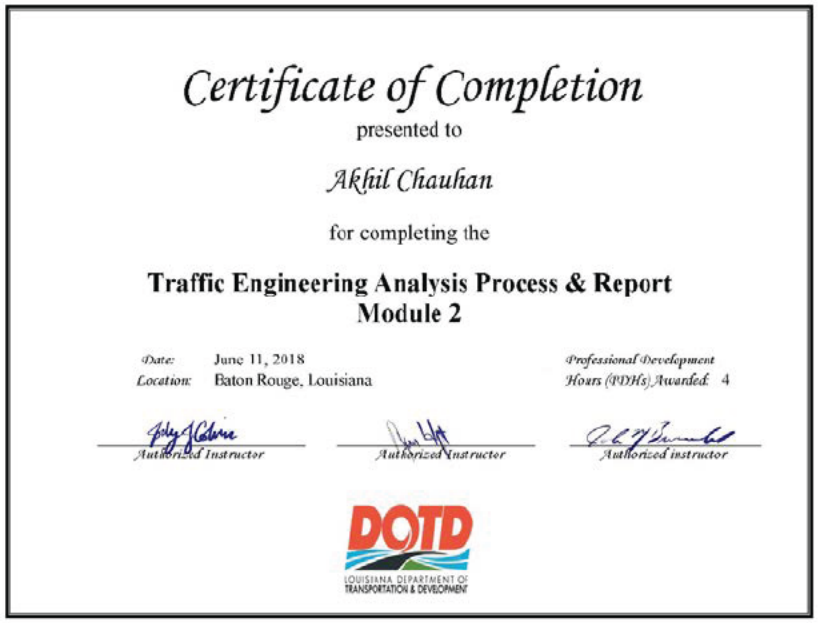
Traffic Engineering Analysis Process & Report
Module 3

Date: September 10, 2018
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

Akhil Chauhan

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
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE

Akhil Chauhan

has participated in

NHI Course No. 142005 -
NEPA and Transportation Decision Making

hosted by

LA DOTD/LTRC

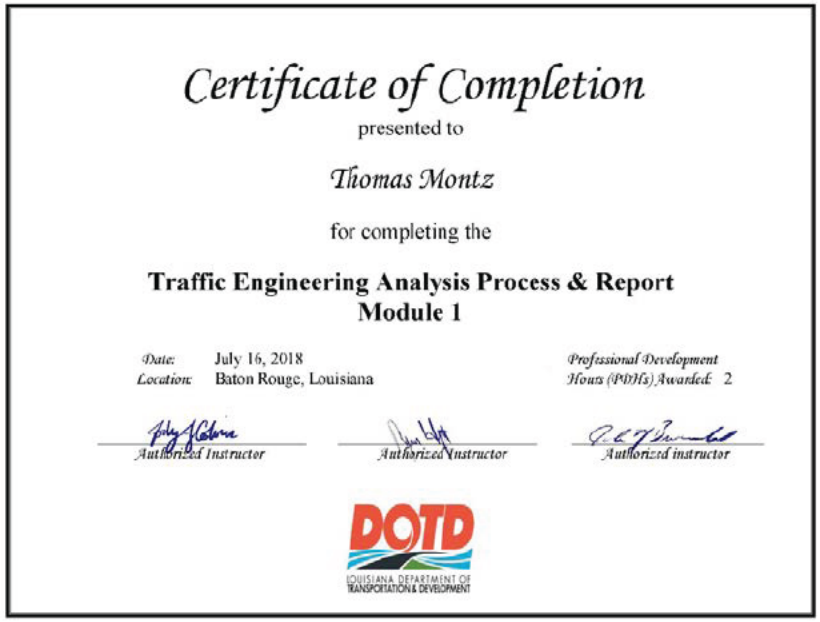
Date: May 28-30, 2014
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor
Instructor

Allison H Landry

Thomas Montz



Certificate of Completion

presented to

Thomas Montz

for completing the

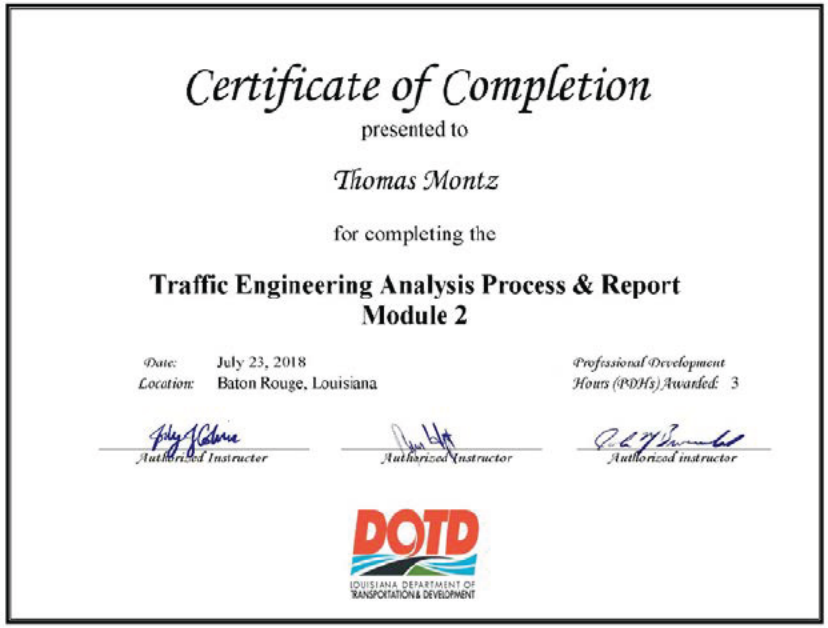
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Thomas Montz

for completing the

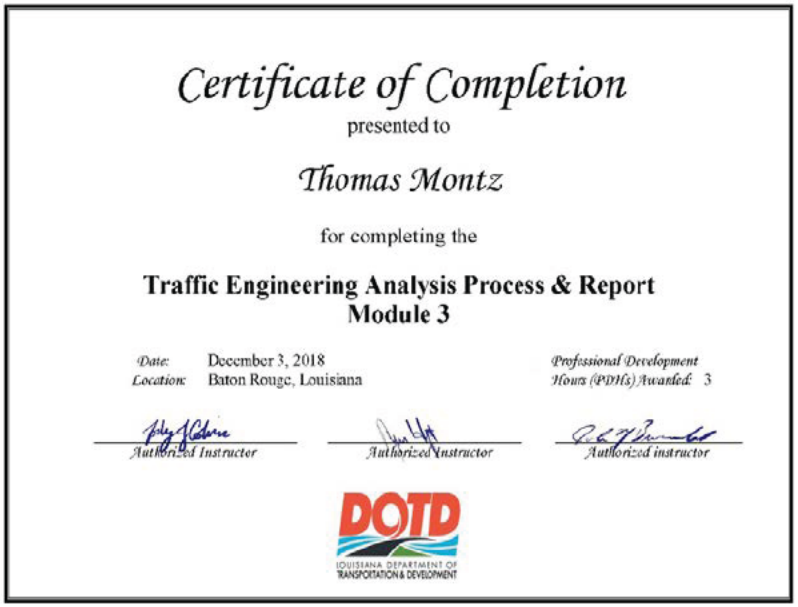
Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Thomas Montz

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
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Thomas Montz

The American Traffic Safety Services Association

Hereby recognizes that

Thomas Montz

has attended

Traffic Control Technician-LA State Specific

Training Course

7/10/2019 to 7/10/2019
Date

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Thomas Montz

has attended

Traffic Control Supervisor-LA State Specific

Training Course

7/11/2019 to 7/12/2019
Date

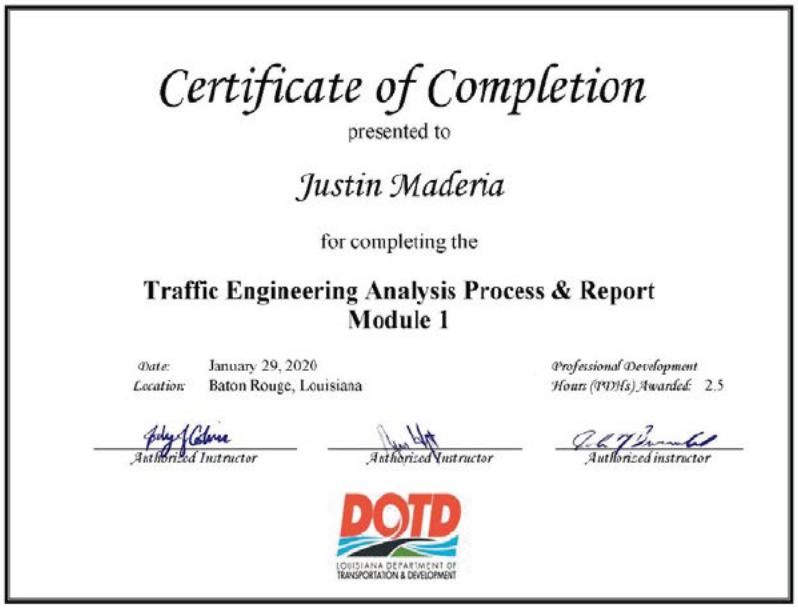
New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Justin Maderia



Certificate of Completion

presented to

Justin Maderia

for completing the

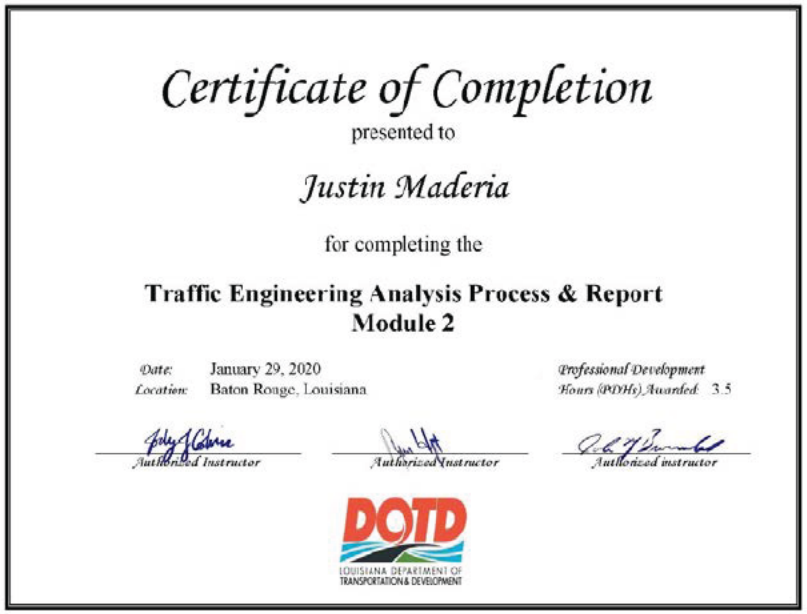
Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDH's) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Justin Maderia

for completing the

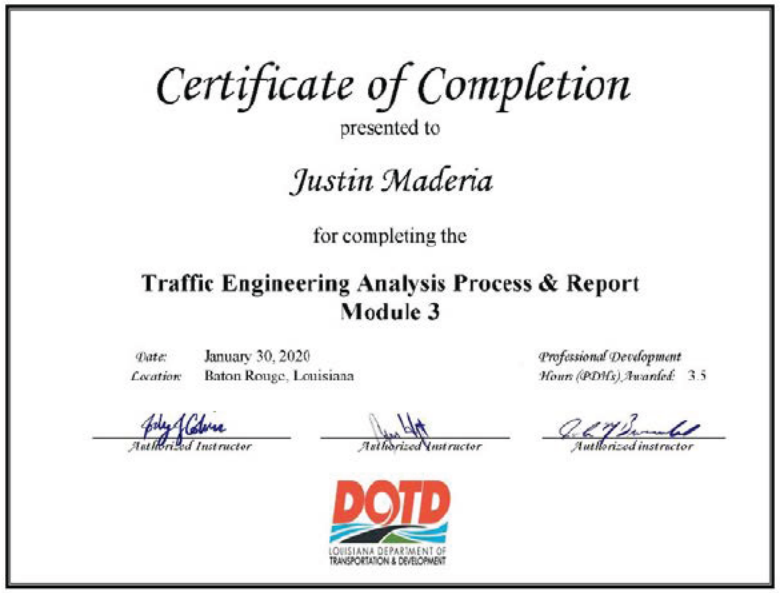
Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDH's) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Justin Maderia

for completing the

Traffic Engineering Analysis Process & Report
Module 3

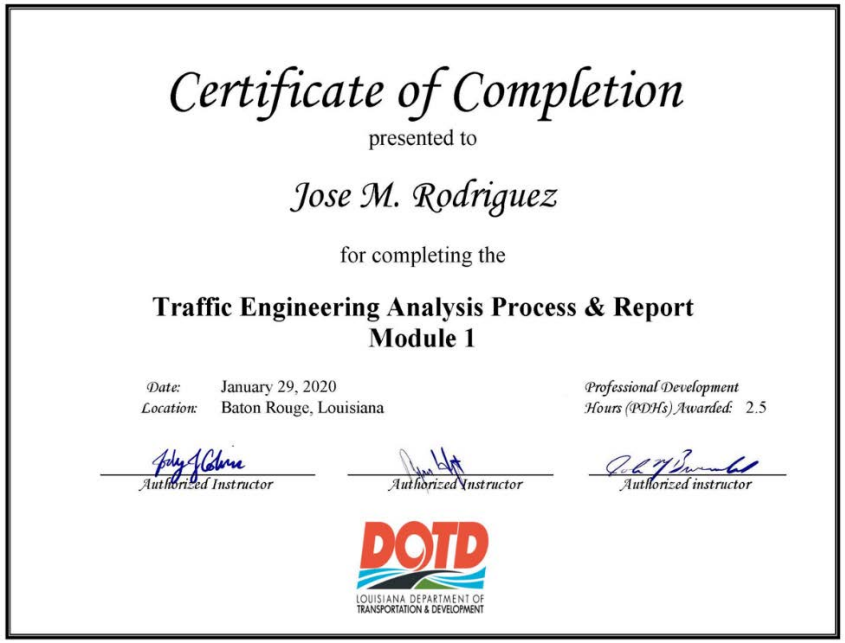
Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDH's) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Jose Rodriguez



Certificate of Completion

presented to

Jose M. Rodriguez

for completing the

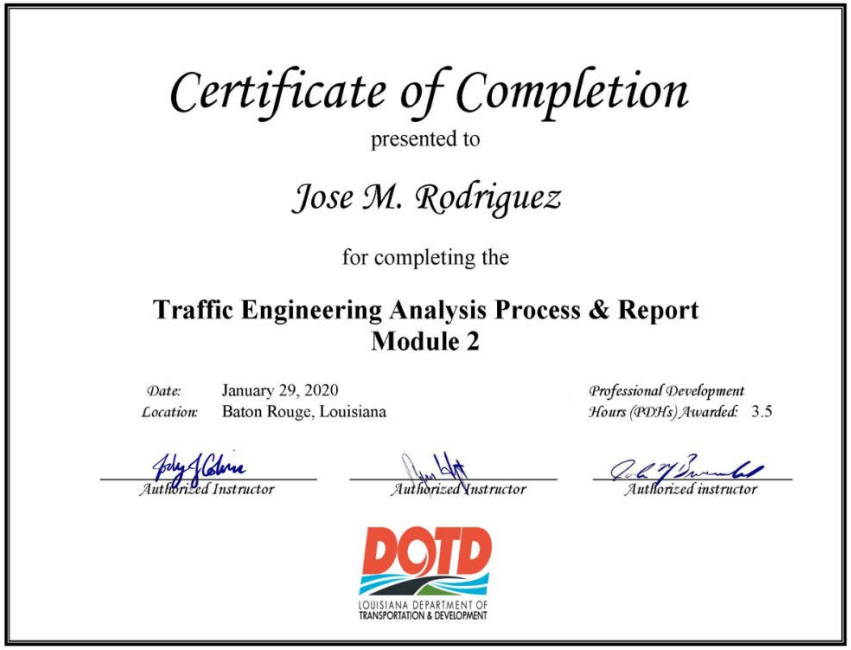
Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 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

Jose M. Rodriguez

for completing the

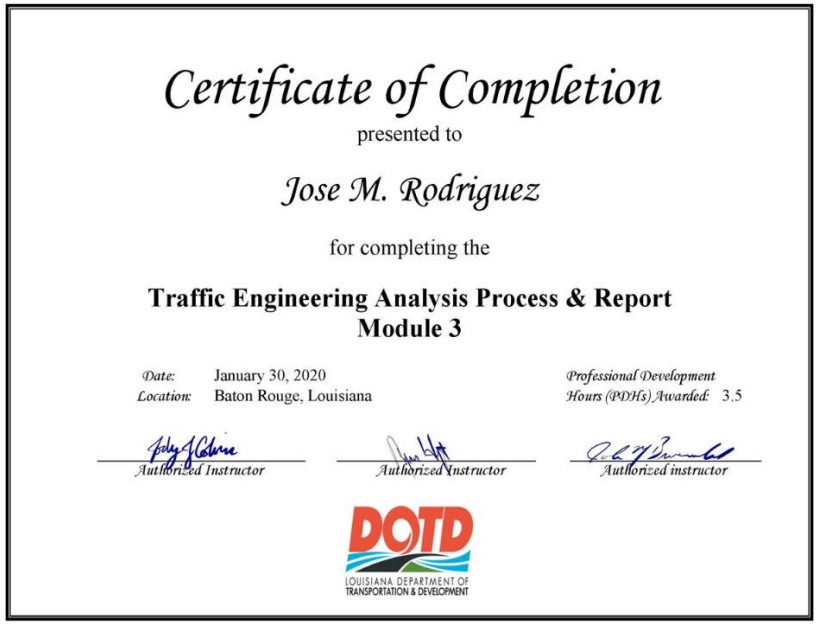
Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 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

Jose M. Rodriguez

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jose L Rodriguez
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

11/1/2019 to 11/1/2019
Date

New Orleans, LA
Location

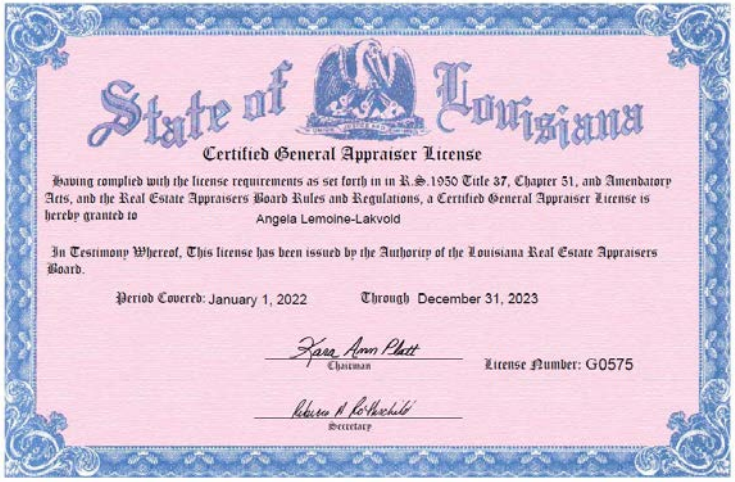
Vice President of Member Services

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.

ATSSA American Traffic Safety Services Association ATSSA.com

Angie Lakvold



RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Lakvold Group, LLC

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

NC531320

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

Certificate Eligibility: July 2022 to July 2023

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Office of the Secretary
PO Box 94245 | Baton Rouge, LA 70804-9245
PH: 225-379-1200 | FX: 225-379-1851

John Bel Edwards, Governor
Shawn D. Wilson, Ph.D., Secretary

February 24, 2023

Marmillion Gray Media, Inc.
Attn: Rannah Gray
838 North Blvd.
Baton Rouge, LA 70802

Dear Rannah Gray,

The Louisiana Department of Transportation and Development (LADOTD) Compliance Programs Section has received your firm's Disadvantaged Business Enterprise **(DBE)** and Small Business Element **(SBE)** annual affidavit. Based on the information, which you provided, it has been confirmed that your firm continues to meet the eligibility requirements of our program and remains certified for **only** the following **specific** work categories **that fall under the listed NAICS codes**:

NC541820-Public Relations Agency
C47-Public Relations

Please note that per the federal regulations, suppliers only receive 60% goal credit towards the materials they provide. Also, note that any contractor performing work in excess of $50,000 with the exception of electrical, mechanical and plumbing requires A Louisiana Contractor's License, which are required to have a license if work is in excess of $10,000. You may contact the State Licensing Board for Contractors at (225) 765-2301 for more information. All participants of the Louisiana Unified Certification Program will recognize your firm's certification. This includes all entities receiving federal transportation funding within the boundaries of our state.

You will be required to submit an annual affidavit with all supporting documents (**Business taxes with all attachments, such as 1098, 1099, K-1's and/or W-2's**) stating your firm continues to meet the eligibility requirements of the program. An email informing you to submit the necessary documentation will be forwarded to you approximately six (6) weeks prior to your anniversary date of **February 28, 2024.** However, should you not receive notification from this office for your annual affidavit; it is your responsibility to contact us. Additionally, you must notify our office immediately regarding any changes, which affect the social and economic disadvantage, size, ownership or control of your firm.

The LADOTD has contracted SJB Group, LLC to provide DBE Supportive Services to all certified DBEs, in the LAUCP, at no cost to you. This consultant can offer your firm assistance and guidance on areas such as marketing, estimating, bidding, financial preparations, etc. Contact Jackie des Bordes or Kenyatta Sparks with the SJB Group, LLC at (225) 769-3400 for any assistance needed to grow your organization.

The Louisiana UCP certifying entity reserves the right to withdraw this certification, if at any time, it is determined that **DBE and SBE** certifications was knowingly obtained by the submission of false, misleading or incorrect data. The Louisiana UCP certifying entity also reserves the right to request additional information and/or conduct an on-site visit at any time during your certification period.

We are pleased to have you as a participant in the LAUCP and wish you much success.

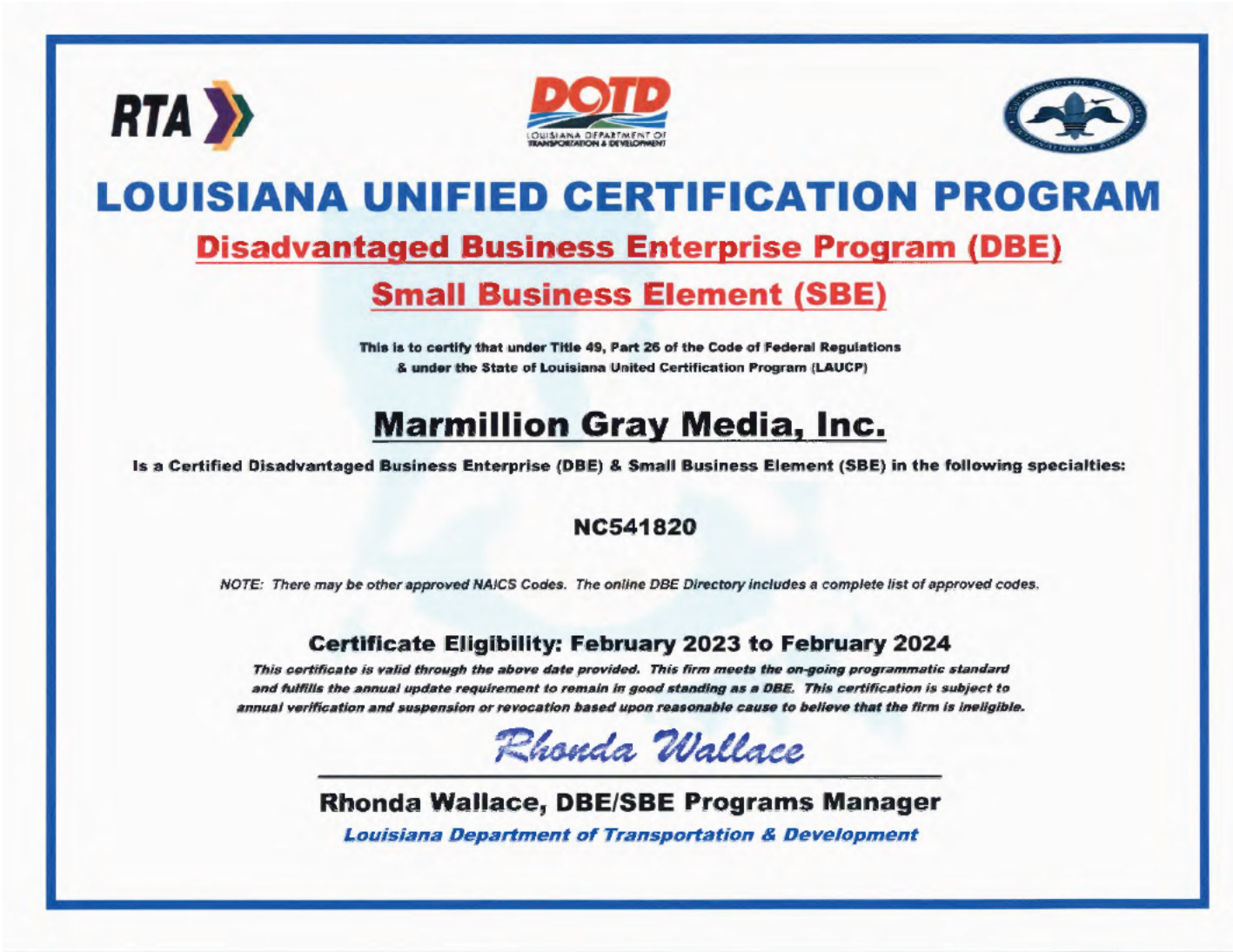
If you have any questions regarding the content of this letter, contact the LADOTD DBE Certification Unit at (225) 379-1382.

Respectfully,

Rhonda Wallace

Rhonda Wallace
DBE/SBE Programs Manager

Enclosure (Certificate)



RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Marmillion Gray Media, Inc.

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

NC541820

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

Certificate Eligibility: February 2023 to February 2024

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Suna Adam

Certificate of Attendance

presented to

Suna Adam Knaus

for attending the

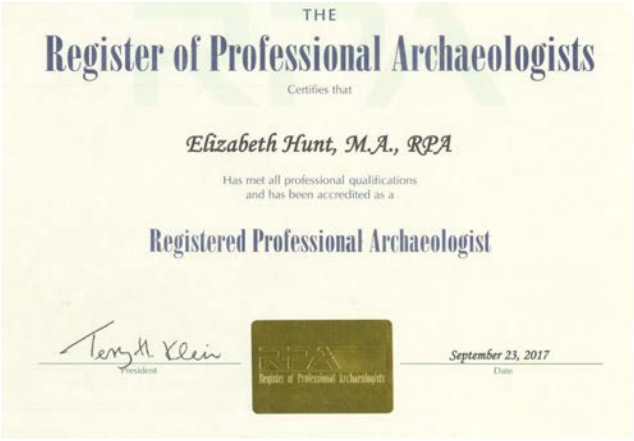
National Environmental Policy Act (NEPA) and Transportation decision Making

and for having been awarded 15 Professional Development Hours

April 30 - May 2, 2003 (Date) | Baton Rouge, LA (Location) | Sandra Romig (Authorized By)

LTRC
Louisiana Transportation Research Center

Elizabeth Hunt



THE
Register of Professional Archaeologists

Certifies that

Elizabeth Hunt, M.A., RPA

Has met all professional qualifications
and has been accredited as a

Registered Professional Archaeologist

President

Register of Professional Archaeologists

September 23, 2017
Date

ADVISORY COUNCIL ON HISTORIC PRESERVATION
ACHP
1966

Certificate of Completion

THIS ACKNOWLEDGES THAT

Elizabeth Hunt

has successfully completed the eight-hour digital classroom course

THE SECTION 106 ESSENTIALS

November 10–13, 2020

REID NELSON
DIRECTOR
OFFICE OF FEDERAL AGENCY PROGRAMS

KATRY HARRIS, TRAINING SPECIALIST
SARAH STOKELY, PROGRAM ANALYST
INSTRUCTORS

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Elizabeth Hunt
has attended
Traffic Control Supervisor-LA State Specific
Training Course

3/10/2021 to 3/11/2021
Date

Director of Training

Baton Rouge, LA
Location

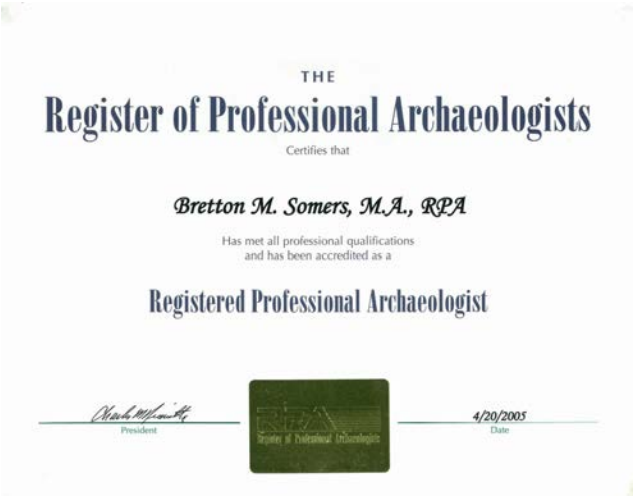
President, CEO

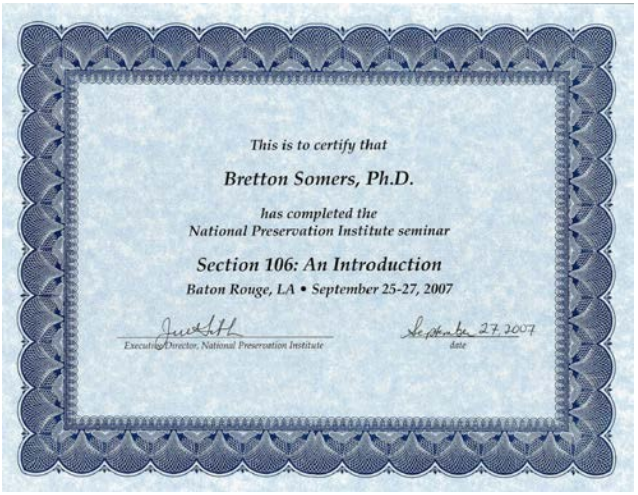
ATSSA provides training and certification but neither constitutes employment by ATSSA

ATSSA American Traffic Safety Services Association ATSSA.com

John Lindemuth

Bretton Somers





RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Gulf South Research Corporation

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

NC541620

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

Certificate Eligibility: June 2022 to June 2023

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

21. QA/QC Plan

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

Per advertisement instructions, GEC will submit a QA/QC plan to the DOTD PM within 10 business days of the award notification.

22. Sub-consultant Information

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Arcadis	10352 Plaza Americana Drive Baton Rouge, LA 70816	Jason Morrell, PWS jason.morrell@arcadis.com	404-783-4005
Gulf South Research Corporation	8081 Innovation Park Drive Baton Rouge, LA 70820	Suna Adam suna@gsrcorp.com	225-757-8088
The Lakvold Group, LLC	4520 Jamestown Avenue, Suite 1, Baton Rouge, LA 70808	Angela Lemoine-Lakvold angie@thelakvoldgroup.com or angielakvold@cox.net	225-248-9984
Marmillion/Gray Media, Inc.	838 North Boulevard Baton Rouge, LA 70802	Rannah Gray Rannah@rannahgray.com	225-381-3036

23. Location

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

THE GEC TEAM

The GEC Team, with subconsultants Arcadis, GSRC, Lakvold, and Marmillion/Gray Media (M/G Media), offers a highly qualified multidisciplinary staff experienced across the spectrum of specialized transportation engineering and environmental projects.

The GEC Team's experienced technical design group has a proven track record of successful line and grade alternatives analysis for highways and bridges in the State of Louisiana and along the I-10 corridor.

The GEC Team's environmental group stands out as the most qualified and competent team for the job, with an unparalleled level of expertise and experience in handling environmental assessments and ensuring compliance with NEPA regulations.

The GEC Team comprises renowned public/stakeholder outreach groups that have gained national recognition for their expertise in project communication, community engagement, adeptness in identifying project-related concerns, and ultimately developing effective mitigation measures to address the identified concerns.

I-10/LA 74 Alternative #2 TUDI with signal rendering to be analyzed (developed by GEC Team member)

G.E.C., INC.

8282 GOODWOOD BLVD., BATON ROUGE, LOUISIANA 70806

WWW.GECINC.COM