DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

GEC

Statement of Qualifications

LA 447 CORRIDOR

CONTRACT NO. 4400024641

G.E.C., Inc.

photo: US 11 Improvements at Schneider Canal, Slidell

July 19, 2022

DOTD FORM: 24-102

(Revised March 1, 2022)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1.	Contract title as shown in the advertisement	**CONTRACT FOR LA 447 CORRIDOR**
2.	Contract number(s) as shown in the advertisement	4400024641
3.	State Project Number(s), if shown in the advertisement	H.005734
4.	Prime consultant name (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.001917
6.	Prime consultant mailing address	P.O. Box 84010, Baton Rouge, LA 70844-4010
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	Cary Bourgeois, PE, Senior Vice President, (225) 612-4121, cbourgeois@gecinc.com
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Cary Bourgeois, PE, Senior Vice President, (225) 612-4121, cbourgeois@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 (shall be the same person as #9):  Date: July 19, 2022

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): **La Terre Engineering, LLC**	Firm(s)' % **5%**

12. Past Performance Evaluation Discipline Table

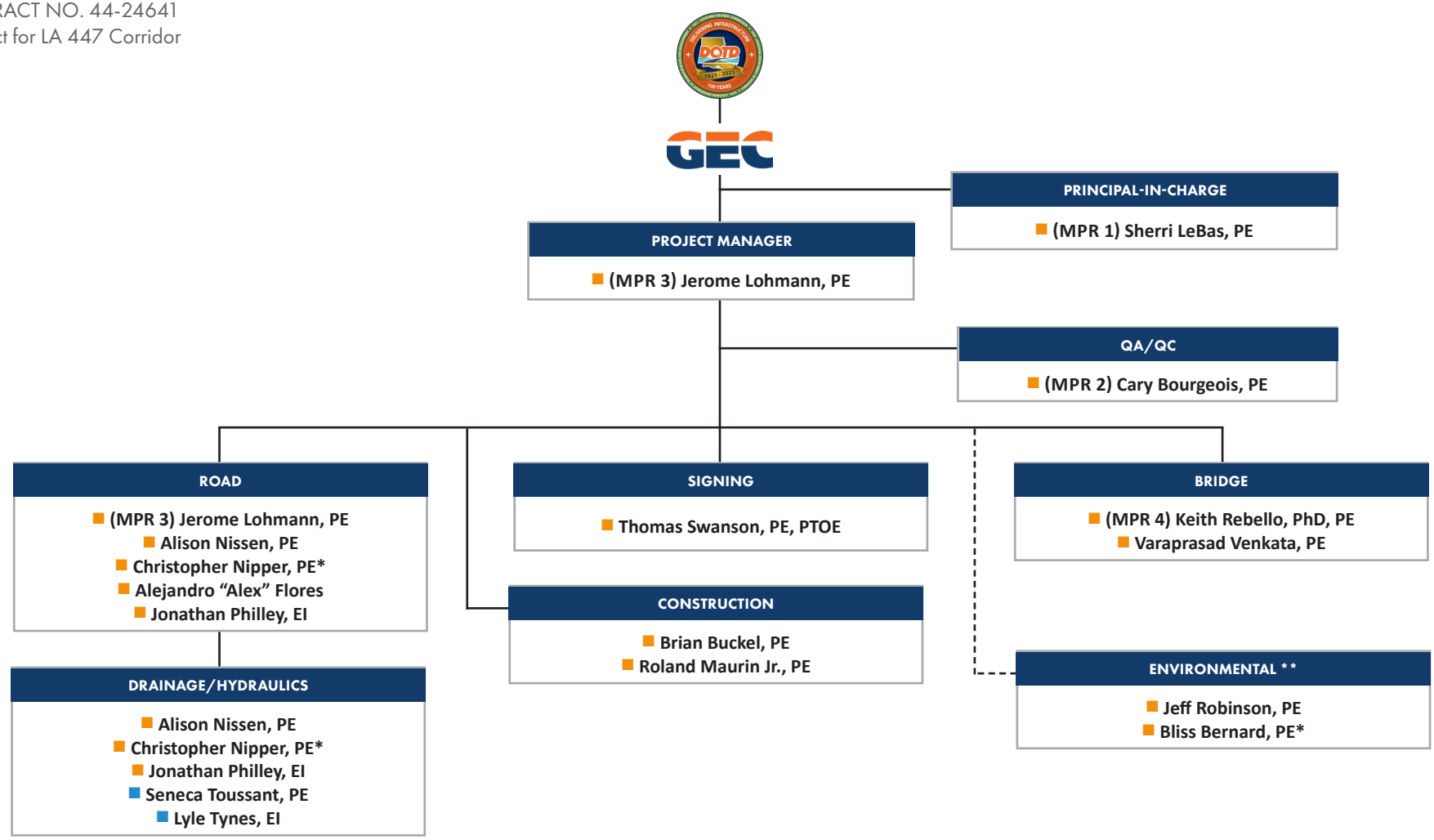
Evaluation Discipline	% of Overall Contract	G.E.C., Inc. (GEC) (**Prime**)	DBE FIRM La Terre Engineering, LLC
Road	90%	94.4%	5.6%
Bridge	10%	100%	0%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.			
Percent of Contract	100%	95%	5%

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.	Principal	3	3
G.E.C., Inc.	Engineer	3	6
G.E.C., Inc.	Supervisor-Engineer	6	6
G.E.C., Inc.	Engineer Intern	1	3
G.E.C., Inc.	Technician	1	1
La Terre Engineering, LLC	Engineer	1	1
La Terre Engineering, LLC	Engineer Intern	1	1
La Terre Engineering, LLC	Cadd Drafter	1	1

14. Organizational Chart

CONTRACT NO. 44-24641
Contract for LA 447 Corridor



LEGEND

- G.E.C., Inc.
- La Terre Engineering, LLC
- **(#)** Fulfills MPR
- * LTRC Modules 1-3 Training
- ** Assistance as needed

PRIME CONSULTANT NAME: **G.E.C., INC.**

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 / certification & number	State of license	License / certification expiration date
1	Sherri LeBas, PE	GEC	PE No. 23844 (Civil, Environmental)	Louisiana	03/31/2023
2	Cary Bourgeois, PE	GEC	PE No. 23414 (Civil)	Louisiana	09/30/2023
3	Jerome Lohmann, PE	GEC	PE No. 24673 (Civil)	Louisiana	09/30/2022
4	Keith Rebello, PhD, PE	GEC	PE No. 24937 (Civil)	Louisiana	03/31/2023

MPR Nos. 1 through 4 may be met by the same person.
MPR No. 4 may be satisfied through the use of a sub-consultant(s).

16. Staff Experience

Firm employed by	**G.E.C., Inc.**		
Name	**Sherri LeBas, PE**	Years of relevant experience with this employer	6
Title	Senior Vice President	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization	B.S. / 1985 / Civil Engineering		
Active registration number / state / expiration date	23844 / Louisiana / 03-31-2023		
Year registered	1990	Discipline	Professional Engineer, Civil & Environmental
Contract role(s) / brief description of responsibilities	Role on this Project: **Principal-in-Charge / MPR 1**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*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, Louisiana.** *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 noisewalls and coordination with roadway and overall design elements.
08/20-Present	**H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana.** *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.
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.
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).

05/05 – 03/10	**LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (LADOTD): Baton Rouge, LA.** *Change Management Facilitator (1 year); Assistant to the Secretary of Policy (2 years); Deputy Secretary (2 years)* - Ms. LeBas was a facilitator on the Change Management Team which today is referred to as Quality Continuous Improvement (QCIP). She facilitated teams consisting of LADOTD staff, consultants and other stakeholders for utility relocations, project Management and consultant services. As Assistant Secretary for Policy, Ms. LeBas worked with staff and the Secretary to develop the $1.2 Billion list of roadway projects that were funded with State surplus dollars in 2007, 2008 and 2009. She served as the program manager for this $1.2 Billion surplus program, scheduling projects, managing the budget and working through issues in order to get the program delivered on time and within budget. As Deputy Secretary, Ms. LeBas served as the program manager for the $430 million American Recovery and Reinvestment Act (ARRA) working with LADOTD staff to deliver the projects within the federally set deadlines of 50% of the funding obligated within 6 months and the remainder within a year.
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.
01/98 – 09/03	**STATE OF LOUISIANA NON-STATE ENTITY CAPITAL OUTLAY PROGRAM: Statewide, LA.** *Program Manager* - Ms. LeBas served as Program Manager at the Division of Administration (DOA)/Facility Planning & Control (FP&C) for the non-state projects that receive funding through the State of Louisiana. She was responsible for the development of the Cooperative Endeavor Agreement between the State and the local entity, working with local entities in the delivery of projects in accordance with State guidelines, cash flow from inception through construction. At any one time 75 to 100 active projects were in production including but not limited to waterlines, sewer lines, pump stations, roadways, livestock arenas, renovation of theaters, park roadways and amenities and port facilities.
09/95 – 05/97	**ESTHERWOOD CANAL BRIDGE, LA 1124 (STATE PROJECT NUMBER 801-22-0007): Acadia Parish, LA.** *Project Design Supervisor LADOTD Road Design Section* - Ms. LeBas served as the road design engineer supervisor for the in-house design of the project. The design included all design aspects of a bridge replacement project including drainage, typical sections, horizontal and vertical alignment, cross sections, quantity calculations, summary of estimated quantities in accordance with LADOTD standard specifications.
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 within the corridor to discuss driveway access, modifications, and concerns.

Firm employed by	**G.E.C., Inc.**		
Name	**Cary Bourgeois, PE**	Years of relevant experience with this employer	36
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	Civil	
Contract role(s) / brief description of responsibilities		Role on this Project: **QA/QC / MPR 2**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mr. Bourgeois is GEC's Senior Vice President 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 along with extensive experience in safety inspection of bridges. He has valuable experience in the design and geometry associated with roadways and bridge structures. He is thoroughly familiar with AASHTO Policy on Geometric Design of Highways and Streets, AASHTO Standard Specifications for Highway Bridges, Manual on Uniform Traffic Control Devices, the Highway Capacity Manual and the Standard Specifications for Structural Support for Highway Signs, Luminaries and Traffic Signals. He has provided ITS deployment and implementation planning, field device optimum positioning and placement, civil/structural engineering, and plan and specification development. As Senior Vice President of Engineering, he manages design and development, and supervises production of plans and specifications as well as general construction engineering and inspection.*
03/91-Present	**GNOEC LAKE PONTCHARTRAIN CAUSEWAY, CONSULTING ENGINEER: St Tammany and Jefferson Parishes, LA.** *Principal-in-Charge* - 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 10 years. In this time GEC has designed and implemented over $200,000,000 in improvements to the GNOEC system. Our responsibilities have included: recommendations for operations and maintenance of Lake Pontchartrain Causeway, review of the operating budget, emergency response, inspection and reporting, annual physical condition inspection in accordance with National Bridge Inspection Standards, planning and scheduling of future GNOEC repair and improvement projects, review of Toll Plaza configurations and toll system operation, preparation of construction contract plans, specifications and estimates for various repair and improvement projects, and construction inspection and shop drawing review. The Legacy Toll Collection System was installed in 1994 under GNOEC Project I & IIC – North Shore Toll Plaza Improvements. The 1994 Legacy Toll Collection System expanded the North Toll Plaza from 3 lanes to 4 lanes and replaced all Automatic Vehicle Classification (AVC) & Automatic Vehicle Identification (AVI) equipment, installed a new toll booth in lane 4, retrofitted the original toll booths in lanes 1-3 and installed Weigh-In-Motion in lanes 1 & 2. In addition to the original design and installation GEC and Mr. Bourgeois has been involved in the operations and maintenance of the Legacy Toll Collection System and planning for its soon to be completed replacement.
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Principal-in-Charge/QA/QC* - 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.
1991-1997	**ROUTE I-12, I-10 FROM ACADIAN THRUWAY TO U.S. 61 (S.P. NO. 700-28-0004): 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 bridge feasibility and drainage studies.

Firm employed by	**G.E.C., Inc.**
Name	**Cary Bourgeois, PE** *Continued Resume*
06/17-12/21	**H.003074, I-10 WIDENING, WILLIAMS TO VETERANS: Jefferson Parish, LA.** *Principal-in-Charge/QA/QC* - Mr. Bourgeois oversaw the 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, 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.
04/19-12/21	**CHEVELLE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: Baton Rouge, LA.** *Principal-in-Charge* - GEC performed a Design Study, including hydraulics, environmental, and geotechnical considerations, overseeing topographic survey and Right-of-Way (ROW) Mapping as required; developing preliminary and final construction plans and cost estimates. GEC will oversee construction phase services and preparation of an as-designed load rating for the bridge according to LADOTD criteria. The project includes the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek and the existing Sarasota Drive Bridge over Engineers Depot Canal, both located in Baton Rouge, LA.
2019-Present	**LA SAFE-AIRLINE AND MAIN COMPLETE STREETS: Laplace, LA.** *Principal-in-Charge/QA/QC* - 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.
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.
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, approach roadways, and drainage. Mr. Bourgeois was Principal-in-Charge and oversaw the design phase of the project.
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.
1997-2012	**ROUTE I-12, ESSEN LANE INTERCHANGE (S.P. NO. 454-01-0051 AND 258-32-0016): 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.
08/20-Present	**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.

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 / 09-30-2022	
Year registered	1992	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Project Manager, Road Design / MPR 3**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mr. Lohmann has over 39 years of diversified engineering, surveying, and construction experience to his credit. He began his career working for an engineering/construction company in 1969. Since that time, he has gained progressive experience, an Associate degree in Applied Science (Surveying), and B.S. in Civil Engineering. His career has included extensive experience in the area of surveying (right-of-way, boundary, topographic, hydrographic, construction, route/location, etc.), sanitary sewer design, water supply systems, highway and transportation systems, drainage design, etc. Mr. Lohmann has served as Project Manager/Design Engineer on various LADOTD Projects. He has been responsible for the design and management of projects ranging in magnitude from Off- System Bridge Replacement Projects to a major interchange on I-49.*
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. (City-Parish Project No. 19-CPHC-0034)
11/18-02/21	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *Project Manager* - Mr. Lohmann managed the GEC design staff for the replacement of two-slab span bridges and approximately 1.1 miles of milling and overlay. He oversaw design of the vertical alignment, proposed length of the bridges, placement of the new bridges, and guardrail design. Mr. Lohmann also oversaw the design of the new roadway approaches to the new bridge, calculation of quantities, and construction cost estimating for the project. Construction of the project was completed in June 2021.
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.
09/19-present	**LA SAFE-AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA.** *Project Manager* - Mr. Lohmann is managing the development of typical sections and preliminary layout for the project, which 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. Mr. Lohmann oversaw the calculation of preliminary quantities and development of a preliminary estimated construction cost. He proposed the conceptual design to the Parish and received approval. He also oversaw development of the fee for all costs from surveying to construction.
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 and the existing Sarasota Drive bridge over Engineers Depot Canal. (Bridge Recall No(s). 800541 and 800561; City Parish Project No. 18-BRUS-0016)

Firm employed by	**G.E.C., Inc.**
Name	**Jerome Lohmann, PE** *Continued Resume*
07/19-Present	**H.011670, I-10 / LOYOLA INTERCHANGE IMPROVEMENT, DESIGN-BUILD PROJECT: Jefferson Parish, LA.** *Quality Assurance* - GEC is the Owner Verification Firm (OVF) for this design-build project which includes the CE&I, right-of-way acquisition, and utility relocation. As LADOTD's OVF representative, GEC is responsible for the acceptance of the work and materials in order to ensure contract compliance. As LADOTD's designated representative, Mr. Lohmann administers the contract which includes design oversight.
08/17-07/18	**H.004932, US 90 (FUTURE I-49 SOUTH), LA 318 INTERCHANGE: ROUTE US 90: St Mary Parish, LA.** *Quality Assurance* - As LADOTD's OVF representative, Mr. Lohmann was responsible for the acceptance of the work and materials in order to ensure contract compliance. As LADOTD's designated representative, Mr. Lohmann administered the contract which included design oversight. He reviewed the design-builder's RFC for compliance with the design standard, performance specification, etc. and reviewed as-built was for completeness and provided recommendation to the LADOTD Project Manager and Chief Engineer for approval. He reviewed D-B team proposed resolutions to RFIs and NCR to ensure sound engineering judgement was used as the basis for all responses.
09/19-Present	**WEST TAMMANY HILLS DRAINAGE: Covington, LA.** *Project Manager* - Mr. Lohmann is overseeing development of a drainage report, along with plans for the installation of subsurface drainage for the residential area north of the Crestwood Subdivision in Covington. Mr. Lohmann's road design services include pavement structural design for rehabilitated and/ or reconstructed sections and preliminary and final roadway design and plan development. He will also work with the Parish to finalize plans and specifications into the Parish frontend documents and format for bidding, address request for information (RFIs) during the bidding process, attend and document pre-bid meeting, review and tabulate bids, and make recommendation on acceptance of bids as required.
09/17-12/18	**CAMP COUSHATTA ROAD IMPROVEMENTS: Allen Parish, LA.** *Project Manager* - Mr. Lohmann managed the design of a new road for the Coushatta Tribe of Louisiana, including the new alignment and drainage structures/systems. 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.
2015-2016	**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. 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.
11/15-12/21	**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 90% 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, form part of this project. 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. Mr. Lohmann provided design in the preliminary plans phase and design review of the roadway during the final plans phase.
2002-2013	**TIMED PROGRAM PROJECT MANAGEMENT: 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 DOTD TIMED projects at different stages of completion and coordinates all the preconstruction activities through letting. His duties included overseeing the Contract Design Consultant (CDC), justifying contract changes, managing plan in hand inspections, insuring that the CDC used current DOTD STD Plans and pay items and resolving day to day problems, along with budgeting.

Firm employed by	**G.E.C., Inc.**		
Name	**Alison Nissen, PE**	Years of relevant experience with this employer	2
Title	Civil Engineer	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization		B.S. / 1984 / Civil Engineering	
Active registration number / state / expiration date		28801 / Louisiana / 09-30-2022	
Year registered	2000	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Road Design, Drainage**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Ms. Nissen joined GEC in 2019 as a civil engineer with 24 years of experience with project management and transportation design projects. Her engineering and management experience includes preliminary and final design, plan preparation, and construction phase services. She has experience with project supervision, frequently interfaces with clients, subconsultants and government agencies, and has prepared roadway design, drainage, traffic control plans, and other associated design for preliminary and final design of roadways from major thoroughfares to residential streets for private land developers and city, parish/county, and stage agencies. Ms. Nissen has a wealth of experience in the design of roadways and drainage, inclusive of the design of roundabouts.*
01/16-11/16	**H.012185 / LA 3034, SULLIVAN ROAD (WAX-HOOPER): East Baton Rouge Parish, LA.** *Project Engineer* - Ms. Nissen was responsible for design of major roadway improvements replacing the 2-lane asphalt roadway with a 4-lane concrete, divided roadway with raised median. The road improvements were for Sullivan Road from West of Wax Road to Hooper Road on over 1.2 miles of roadway and included horizontal and vertical geometry, intersection design and drainage improvements.
2019	**LADOTD H.004104, PECUE LANE/I-10 INTERCHANGE: Baton Rouge, LA.** *Project Manager* - Ms. Nissen provided engineering design services for widening Pecue Lane (Perkins to Airline) including a Diverging Diamond Interchange with I-10. She prepared construction plans and construction cost estimates for Pecue Lane from Jamestown Blvd to south of Ward Creek and the I-10 EB entrance and exit ramps. Tasks included horizontal and vertical alignments, typical sections, super elevation diagrams, intersection layout, geometric details, storm drainage design, construction sequencing, cross section development, maintenance of traffic plans, and construction cost estimates.
03/12-04/13	**H.004526 / LA 1 IMPROVEMENTS GOLDEN MEADOW TO PORT FOURCHON: Lafourche Parish, LA.** *Project Engineer* - Ms. Nissen was responsible for preparation of the final line and grade study, preliminary roadway and right-of-way plans and construction cost estimate for an 8-mile segment of a 17-mile, 4-lane bridge structure to replace the existing LA 1 roadway. She was responsible for coordinating road and bridge designs including horizontal and vertical alignment, roadway tie-ins, major pipeline crossings and a levee crossing, scheduling, and interfacing with client, project subconsultants, governmental agencies and pipeline companies.
01/15-01/16	**H.002301 / NORTH SHERWOOD FOREST DRIVE IMPROVEMENTS: Baton Rouge, LA.** *Project Engineer* - Ms. Nissen was responsible for the design of 1.7 miles of roadway replacing the existing 2-lane rural roadway with a 5-lane urban roadway. Her responsibilities during construction plan preparation included sequence of construction, signing and striping, erosion control, quantities and QA/QC reviews.
10/19-12/21	**EBR CITY-PARISH, CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA.** *QA/QC* - Ms. Nissen provided plan review services for this project which includes the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek and the existing Sarasota Drive bridge over Engineers Depot Canal, both located in Baton Rouge, Louisiana.
2018	**H.011798 / AIRLINE PARK BLVD. REHABILITATION AND DRAINAGE UPGRADE: New Orleans, LA.** *Project Manager* - Ms. Nissen performed preparation of plans, specifications, and cost estimate for improvements to Airline Park Blvd. (500' north of Camphor to West Napoleon Ave). Her responsibilities included horizontal and vertical geometry, storm sewer design, earthwork calculations, and sequence of construction.

Firm employed by	**G.E.C., Inc.**
Name	**Alison Nissen, PE** *Continued Resume*
10/19-07/20	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *QA/QC* - The project includes the replacement of two slab span bridges. Ms. Nissen provided review of the project plans. Construction of the project was completed in June 2021.
10/19-Present	**MID CITY GROUP C, D, & E, FEMA RECOVERY ROADS PROGRAM: New Orleans, LA.** *Project Engineer* - Ms. Nissen is preparing plans, specifications, and estimates for the removal and replacement of an existing asphalt and concrete pavement and drainage structures, as well as replacement of waterline and sewer main. Tasks include horizontal and vertical geometry, subsurface drainage design, and cross section development.
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Design Engineer* - For the widening of Bluebonnet Blvd., Ms. Nissen completed a design study of a six-lane, curb and gutter roadway with subsurface drainage, bridge replacement, green infrastructure and pedestrian facilities. Design is in accordance with MOVEBR Design Guidelines and Consultant Services Manual. Ms. Nissen made slight modifications to the horizontal alignment to avoid conflicts with existing railroad and pedestrian bridge support columns, raised the profile for the replacement bridge over Dawson Creek. Ms. Nissen prepared typical sections, roadway plan and profile drawings, geometric details and construction cost estimate for the design study report.
2016	**CHEROKEE STREET DRAINAGE IMPROVEMENTS: New Orleans, LA.** *Project Engineer* - Ms. Nissen was responsible for preparation of plans and specifications for roadway replacement, drainage improvements and Green Infrastructure on Cherokee Street in the southwest region of the City near Audubon Park. The proposed improvement project consisted of a new subsurface storm water system to address localized flooding along a two-block region of Cherokee Street. Green Infrastructure design elements of the project consisted of rain gardens with high performance modular bio-filtration systems at intersection radii and the use of permeable pavers with perforated pipe underdrain for parking lanes on each side of the roadway.
03/14-01/15	**MT. PLEASANT BLVD. WIDENING (BARNETT ROAD TO LA 964) AND AMERICANA ROUNDABOUT: Zachary, LA.** *Project Engineer* - Ms. Nissen was responsible for the conceptual layout and subsequent final design for replacing approximately 7,000 feet of the existing 2-lane rural roadway with a 4-lane divided roadway with a raised median. Project included a double-lane roundabout for the proposed main entrance to the Americana Traditional Neighborhood Development (TND). She was responsible for roadway and roundabout geometrics, plan preparation and construction cost estimates. Also coordinated with the City, LADOTD, subconsultants, and Americana TND engineers.
03/13-02/14	**HIGHWAY 64 BYPASS ROAD: Zachary, LA.** *Project Engineer* - Ms. Nissen was responsible for the design of approximately 4,300 feet of new 4-lane divided roadway with a 16-foot raised median, and 1,700 feet of 2-lane roadway. The project included the study and conceptual design of two double-lane roundabouts. She was responsible for plan preparation, construction cost estimates, determining right-of way requirements for the roundabouts and coordinating with property owners. She coordinated with LADOTD and the subconsultant providing roundabout study and conceptual design.
04/17-07/19	**FILMORE NORTH GROUP B, FEMA RECOVERY ROADS PROGRAM, CITY OF NEW ORLEANS: New Orleans, LA.** *Project Engineer* - As Project Engineer on this pavement reconstruction project for several streets in the Filmore Neighborhood, Ms. Nissen prepared the PS&E for the removal and replacement of exiting asphalt and concrete pavement and drainage structures, as well as replacement of waterline & sewer main. Plan development tasks included horizontal & vertical geometry, subsurface drainage design, and cross section development.

Firm employed by	G.E.C., Inc.		
Name	**Christopher Nipper, PE**	Years of relevant experience with this employer	5
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: **Road Design, Drainage**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mr. Nipper has 7 years of experience in roadway widening and realignment in both rural and urban environments. In addition, he has designed drainage systems and milling and overlay. Prior to joining GEC, Mr. Nipper worked with LADOTD for more than two years, affording him knowledge of their standards and guidelines required for roadway projects. He is also familiar with AASHTO standards and guidelines and has completed the Traffic Engineering Analysis Process and Report Modules 1-3 training. Mr. Nipper also completed FHWA-NHI-380096 Modern Roundabouts: Intersections Designed for Safety hosted by LADOTD/LTRC.*
02/19-07/20	**ST. TAMMANY PARISH GOVERNMENT, I-10 SERVICE ROAD BRIDGE REPLACEMENTS: St Tammany Parish, LA.** *Road Design Engineer*- The project included the replacement of two 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 and calculated all of the quantities and estimated the construction cost for the project.
04/19-05/20	**EBR CITY-PARISH, 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 the horizontal and vertical alignments, calculated the quantities, and prepared the cost estimate for both bridge sites. He also performed a hydraulic analysis and prepared a hydraulics report for each bridge.
06/17-2021	**H.003074, I-10 WIDENING, WILLIAMS TO VETERANS: Jefferson Parish, LA.** *Road Design* - Project included the design of 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 bridge bents and girders.
02/20-Present	**H.013897, I-10 & I-12 COLLEGE DR FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Roadway Design* - Mr. Nipper is Roadway Designer 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.
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 and 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.

Firm employed by	**G.E.C., Inc.**
Name	**Christopher Nipper, PE** *Continued Resume*
09/19-Present	**WEST TAMMANY HILLS DRAINAGE: Covington, LA.** *Project Engineer* - Mr. Nipper has assisted in the delineation of drainage maps and hydraulic calculations. He was involved in the design of the subsurface drainage systems and the roadway rehabilitation design. He also assisted in the development of the construction plans and associated quantities.
06/20-10/20	**US HWY 190 DRAINAGE CROSSING: Livingston Parish, LA.** *Road Design Engineer* - This project involved the design of a concrete box culvert cross drain. This cross drain was being added alongside an existing box culvert in order to assist with drainage to alleviate backwater flooding. Mr. Nipper calculated the quantities and developed the construction plan documents. Mr. Nipper also assisted in the drainage analysis and design of the concrete box culvert.
2018	**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.
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.
06/17-10/18	**H.012783 / WB VETERANS, SEVERN AVE. – CLEARVIEW PKWY.: Jefferson Parish, Veterans Blvd.** *Co*-Designer – This project involved the milling and overlay of Veterans Blvd. Two new drainage systems were also designed to reduce ponding along the road way. Christopher Nipper was involved with checking the design of the drainage systems, along with the design of the typical sections. He also calculated quantities and estimated costs associated with the 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* - Mr. Nipper's 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 LA DOTD standards and guidelines.

Firm employed by	**G.E.C., Inc.**		
Name	**Jonathan Philley, EI**	Years of relevant experience with this employer	1
Title	Road Design	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		B.S. / 2019 / Civil Engineering	
Active registration number / state / expiration date		34937 / Louisiana / 03-31-2024	
Year registered	2022	Discipline	Engineer Intern
Contract role(s) / brief description of responsibilities		Role on this Project: **Road Design**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mr. Philley has 4 years of experience with many projects, including roadway widening and realignment. In addition, he has designed drainage systems and milling and overlay. Prior to joining GEC, Mr. Philley worked with HRC Engineers, Surveyors, and Landscape Architects and Pritchard Engineering, affording him knowledge of the standards and guidelines required for roadway projects. He is also very familiar with AASHTO standards and guidelines.*
04/21-Present	**WEST ST. TAMMANY HILLS DRAINAGE: St Tammany Parish, LA.** *Designer* - This project involved milling and overlaying of the existing road, replacing the existing surface drainage system to bring it up to current standards. This project required the analysis of the local drainage areas. Using the collected data from the drainage areas a subsurface drainage system was designed. Quantities for the milling/overlaying and the drainage system were computed. The drainage system was designed according to the current LA DOTD standards and guidelines.
03/22-Present	**LA 45 DRAINAGE IMPROVEMENTS: St Tammany Parish, LA.** *Designer* - This project involved replacing the existing surface drainage system to bring it up to current standards. This project required the analysis of the local drainage areas. Using the collected data from the drainage areas a subsurface drainage system was designed. Quantities for the drainage system were computed. The drainage system was designed according to the current LA DOTD standards and guidelines.
2017-2018	**TURKEY CREEK ROAD: Oktibbeha County, MS.** *Designer* - This project involved full depth reclamation of the existing road, adding cement to the new subgrade and new asphalt road. This project required calculating subgrade volume. It required designing superelevation for the curves being realigned with consideration to the nearby intersection. The new road was designed with the current MDOT standards and guidelines.
2019	**THE VILLAGES AT BROOKMONT: Douglas County, GA.** *Designer* - This project involved design of 27 lots for townhomes. It required extending an existing road, lot grading, stormwater drainage and retention, sediment calculations, and erosion control. This project required the analysis of the local drainage areas. Using the collected data from the drainage areas it was determined an existing storm water management pond could be used. Cut and fill volumes were calculated. This project was designed with the current Douglas County standards and guidelines.
2019-2020	**HAMRICK LAKE: Douglas County, GA.** *Designer* - This project involved the permitting of several existing lots. This required lot grading, lot fit, and the design of erosion control measures. Quantities of cut/fill volume, and sediment volumes were computed. This project was designed with the current Douglas County standards and guidelines.
2019-2020	**THE VIEW AT CEDAR MOUNTAIN: Douglas County, GA.** *Designer* - This project involved the permitting of several existing lots. This required lot grading, lot fit, and the design of erosion control measures. Quantities of cut/fill volume, and sediment volumes were computed. This project was designed with the current Douglas County standards and guidelines.
2019-2020	**BRYSON LAKE: Paulding County, GA.** *Designer* - This project involved the permitting of several existing lots. This required lot grading, lot fit, and the design of erosion control measures. Quantities of cut/fill volume, and sediment volumes were computed. This project was designed with the current Paulding County standards and guidelines.

Firm employed by	**G.E.C., Inc.**		
Name	**Keith Rebello, PhD, PE**	Years of relevant experience with this employer	22
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 / 03-31-2023		
Year registered 1992	Discipline: Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities	Role on this Project: **Bridge / MPR 4**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*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.*
07/12-Present	**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.
11/18-07/20	**I-10 SERVICE ROAD BRIDGES: Slidell, LA.** *Project Manager (Structural)* - This project includes the replacement of a 5 span 100 feet long concrete slab span bridge over Reine Canal and 5span 100 feet long slab span bridge with 30-degree skew over French Branch Canal. Dr. Rebello is the structural project manager for this project and oversaw the structural design, plan preparation and Q.C.
04/19-12/21	**CHEVELLE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: Baton Rouge, LA.** *Structural Project Manager* - This project includes the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek with a 4-span 80-foot long slab span bridge and the existing Sarasota Drive bridge over Engineers Depot Canal with a 5-span 105-foot long slab span bridge. Both bridges will have pedestrian walks and are located in Baton Rouge, Louisiana. Dr. Rebello is the Project Manager for this project and is overseeing the structural design, plan preparation, quantity estimates, as-designed rating, and quality control.
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
09/20-Present	**BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA.** *Bridge Design* - For the roadway widening project, Dr. Rebello performed an investigation of the 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. (City-Parish Project No. 19-CP-HC-0034)
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: 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 the design and construction of the I-10 & I-12 College Dr. Flyover Project. 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 also designed and developed plans for retaining walls for the entire project and is currently working on the design of the required sound barriers.

Firm employed by	**G.E.C., Inc.**		
Name	**Varaprasad Venkata, PE**	Years of relevant experience with this employer	14
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 / 09-30-2022		
Year registered 2016	Discipline: Professional Engineer, Structural		
Contract role(s) / brief description of responsibilities	Role on this Project: **Bridge**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*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.*
2006-2011	**EBR CITY-PARISH, HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA.** *Structural Design* - Mr. Venkata designed new bridge crossings at both Ward's Creek and Old Ward's Creek and tied to completed intersection improvements at Perkins Road and at Airline Highway. The bridges are 240' (6 spans at 40') and 160' (4 spans at 40') in length respectively composed of quad beams or 24" pile bents all designed from AASHTO LRFD.
04/19-12/21	**CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA.** *Structural Engineer* - This project includes the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek with a 4-span 80-foot long slab span bridge and the existing Sarasota Drive bridge over Engineers Depot Canal with a 5-span 105-foot long (20', 20', 25', 20', 20') slab span bridge. Both bridges will have pedestrian walks and are located in Baton Rouge, Louisiana. Mr. Venkata is performing the final design calculations, plan preparation and as-designed rating for both bridges in accordance with AASHTO LRFD Bridge Design Specifications, the ASASHTO Manual for Bridge Evaluation, and the LADOTD Bridge Design Manual. (Bridge Recall No(s). 800541 and 800561; City Parish Project No. 18-BRUS-0016)
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. (City-Parish Project No. 19-CP-HC-0034)
11/18-07/20	**I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA.** *Structural Engineer* - 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. Venkata worked on design and as designed rating for both bridges in accordance with AASHTO LRFD Bridge Design Specifications and LA DOTD Bridge design standards.
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: Baton Rouge, 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.

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: **Construction Coordination**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*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*
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.
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.
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.

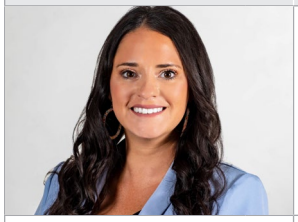
Firm employed by	**G.E.C., Inc.**		
Name	**Roland Maurin Jr., PE**	Years of relevant experience with this employer	7
Title	Construction Engineer	Years of relevant experience with other employer(s)	39
Degree(s) / Years / Specialization		B.S. / 1977 / Civil Engineering	
Active registration number / state / expiration date		20553 / Louisiana / 09-30-2022	
Year registered	1983	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Construction Coordination**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Prior to joining GEC in 2014, Mr. Maurin was Assistant District Administrator LADOTD Operations, managing District 62 district-wide operations which included roadway, bridge, and facility maintenance, movable bridge operations, ferry landings, rest area operations, roadside development, and fleet management. He served as manager of traffic engineering, traffic operations, and bridge inspection and painting of state (on system) and local (off system) bridges. He was also district incident commander for all road/weather events, preparations, coordination with authorities, and after event activities. In addition, he served as District Maintenance Engineer LADOTD for seven years, overseeing all LADOTD maintenance activities in District 62 in Hammond, Terrebonne Parish, and Lafourche Parish. For 13 years, he served as Resident Construction Engineer, performing contract administration over all construction projects in St. John, St. Helena, and northern Tangipahoa parishes. He has the following certifications: ATSSA TCT/TCS, ATSSA Flagger*
01/15-Present	**SALES TAX STREET AND ROAD REHABILITATION PROGRAM (DPW PROJECT NO. 15-CEST-0001): East Baton Rouge Parish, LA.** *Project Engineer* - 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.
05/15-09/21	**H.009479 / WEST LAROSE VERTICAL LIFT SPAN BRIDGE REHABILITATION: Larose, LA.** *Project Engineer* - Mr. Maurin was the Project Engineer representing the LADOTD on the rehabilitation of the West Larose Bridge. The $26M project included 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.
11/14-03/18	**H.005972 / GNOEC, 9-MILE TURNAROUND SPANS, CROSSOVER #5 WIDENING: St. Tammany and Jefferson Parishes, LA**. *Project Oversight* - This project is the most recent to expand the Lake Pontchartrain Causeway. Mr. Maurin had project oversight of this project. Hurricane Katrina severely damaged the access ramps on the 9-Mile Turnaround. An economic study was performed and it was determined that the most prudent course of action was to widen Crossover 5 instead of rebuilding the ramps to the turnaround. This $8.3M project constructed a platform between the Northbound and Southbound bridges that is approximately 120'x80'. The platform, constructed of AASHTO Type IV PPC Girders, was designed for full vehicle loading and the placement of a communications tower. All GNOEC and Cell Phone equipment located at the turnaround was moved to the platform.
06/16-04/18	**H.011217 / GNOEC – DEMOLITION OF THE 9 MILE: St. Tammany and Jefferson Parishes, LA.** *Construction Engineer* - Mr. Maurin had project oversight and supervision over AASHTO SiteManager Approval of DWRs and final change orders, as well as compiling the final punch list for acceptance.
09/06-06/13	**ASSISTANT DISTRICT ADMINISTRATOR LADOTD OPERATIONS:** Mr. Maurin was the manager of District 62 district-wide operations to include roadway, bridge and facility maintenance, movable bridge operations, ferry landings, rest area operations, roadside development and fleet management. Manager of traffic engineering, traffic operations and bridge inspection and painting of state (on system) and local (off system) bridges. District incident commander for all road/weather events, preparations, coordination with authorities and after events.
08/05-09/06	**DISTRICT MAINTENANCE ENGINEER, LADOTD:** Mr. Maurin managed all LADOTD maintenance activities in District 62, Hammond, which consists of 6 parishes, 1842 miles of roadway, 550 bridges, 8 movable bridges & 3 rest areas. Responsible for roadway, bridge/facility maintenance, movable bridge operations, painting, signs, signals, striping, drainage, rest area operations, herbicide program, fleet management & emergency operations.

Firm employed by	**G.E.C., Inc.**		
Name	**Jeff Robinson, PE**	Years of relevant experience with this employer	27
Title	Senior 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 / 03-31-2023	
Year registered	2001	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Environmental Coordination**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mr. Robinson has more than 25 years of civil/environmental engineering project management experience and provides planning, coordination and consulting services for federal and state regulatory compliance issues for numerous governmental and private sector clients. Mr. Robinson is widely respected for his thorough and highly objective approach to environmental, hydrologic, transportation and geotechnical issues as they relate to permitting, design, federal and state compliance, wetlands, hazardous materials, and other critical issues surrounding major infrastructure projects. Few engineers can match the breadth and depth of his experience. He is well-versed in NEPA documentation, HTRW investigations, environmental baseline studies, wetland mitigation bank planning and permitting, ASTM E 1527 Phase I ESA, storm water planning/design, noise analyses, and asbestos inspections. Mr. Robinson successfully completed the NHI Course No. 142005, "National Environmental Policy Act (NEPA) and Transportation Decision Making".*
2006-2011	**HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA.** *Environmental Engineer* - GEC conducted an Environmental Site Assessment (ESA) and a wetland delineation. Mr. Robinson oversaw production of the ESA in accordance with the scope and limitations of ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. In order to characterize environmental conditions 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. This assessment revealed no recognized environmental conditions (RECs) on or in the vicinity of this project.
01/14-05/17	**H.004987 / U.S. HWY. 190 / COLLINS BOULEVARD WIDENING (US-190B – LA 25): Covington, LA.** *Environmental Project Manager* - Mr. Robinson's responsibilities included project management for the preparation of an Environmental Assessment (EA) with Finding of No Significant Impact (FONSI) for the widening of approximately three miles of U.S. Hwy 190 in Covington in accordance with DOTD, FWHA, and NEPA requirements, a project which will include the construction of new bridges across the Bogue Falaya River. 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 wetlands mitigation and permitting, Sections 4(f) and 6(f) consultations, floodplains, and threatened and endangered species consultations. Mr. Robinson was responsible for this NORPC-led effort to improve traffic flow efficiency through the primary north-south roadway corridor in Covington, LA.
01/14-05/16	**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 Environmental Assessment (EA) with Finding of No Significant Impact (FONSI) for the widening of approximately 2.8 miles of U.S. Hwy 11 in Slidell 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 wetlands mitigation and permitting, Sections 4(f) and 6(f) consultations, floodplains, and threatened and endangered species consultations.
2001-2009	**S.P. NO. 700-99-0266 / TIMED PROGRAM: Various Locations in LA.** *Environmental Manager* - Mr. Robinson served as the Environmental Manager responsible for all environmental planning, permitting, design and regulatory clearance pursuant to the construction of 35 project segments comprising more than 260 miles of new highway construction addressed in the Louisiana Department of Transportation and Development's Transportation Infrastructure Model for Economic Development (TIMED) Program. The program required National Environmental Policy Act (NEPA) evaluations and processing necessary to procure Federal and other environmental permits required for construction and included the following program areas.

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 / 03-31-2023	
Year registered	2018	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Environmental Coordination**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mrs. Bernard is a licensed Professional Engineer, experienced with a range of engineering projects including environmental planning, water resources (open channel, sub-surface, floodplain mapping, and numerical modeling), coastal/habitat restoration, traffic engineering, and roadway design. She has has extensive knowledge of NEPA regulations and has served as the Project Manager on several Environmental Assessments and Environmental Impact Statements for federal and state agencies, including LADOTD, FHWA, USDA, NRCS, USACE, NPS, NRDA, LATIG, and CPRA. She has completed the ATSSA TCT, TCS, and Certified Flagger training courses, NHI Course NEPA & the Transportation Decision-Making Process, the LADOTD Highway Safety Manual Course, the LADOTD Traffic Engineering Process and Report Training Modules 1, 2, and 3, and the LADOTD Louisiana Road Safety 101 webinar*
05/17-05/20	**H.001271 CANE RIVER BRIDGE CHURCH STREET ENVIRONMENTAL ASSESSMENT: Natchitoches Parish, LA.** *Project Manager* - Mrs. Bernard served as the project manager. Prime consultant assisted LADOTD and FHWA to formulate a concise public document, or EA. 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 assisting in developing various technical studies, including line & grade study, GIS mapping, wetland delineation & threatened and endangered species study, phase 1 EA, air & noise impact studies, and cultural resources surveys. She directed all activities for numerous stakeholder meetings, public meetings, and public hearings. Through the compilation of all studies required by NEPA and public and agency involvement, she developed the Final EA for the replacement of the Cane River Bridge. She developed and received approval on the first known LADOTD and FHWA "net benefit determination" for Section 4(f) properties in the State of Louisiana. She developed a Finding of No Significant Impact (FONSI) document, which was approved by FHWA and LADOTD. This document was provided to FHWA and will be used as a template for future FONSIs developed in partnership with LADOTD.
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 project manager and was a member of prime consultant team to develop the EA. She analyzed project impacts by coordinating and assisting in developing various technical studies, including line & grade study, GIS mapping, phase 1 EA, and air & noise impact studies. She prepared reports, presentations, postcard mailers, and other documents for stakeholder & community outreach and worked directly with LADOTD on public outreach via the web. She hosted one of the first LADOTD virtual public meetings held completely online following the COVID-19 pandemic which required adapting many of the standard procedures for the meeting for a social-distance-friendly platform. Through the compilation of all studies required by NEPA and public and agency involvement, she developed the draft EA Report.
01/20-12/21	**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 responsible for managing and providing all engineering, environmental, and planning services required to determine necessary improvements along the corridor. In Phase 1, she was responsible for performing project research, establishing design criteria in accordance with LADOTD, and overseeing concept development and evaluation for roadway alternatives, based upon a traffic study. In Phase 2, she was engineer-of-record, preparing the Stage 0 Feasibility Study & Environmental Inventory to examine feasibility of improving mobility and operations. She evaluated alternatives and presented findings to LADOTD to select 3 preferred alternatives for 3 segments along LA 37. Upon completion of alternatives traffic study, she was responsible for environmental documentation and developed final signed and sealed Stage 0 Feasibility Report including Stage 0 Checklist, Environmental Checklist, roadway engineering plans, and opinion of probable cost.

Firm employed by	**G.E.C., Inc.**		
Name	**Thomas Swanson, PE, PTOE**	Years of relevant experience with this employer	13
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 / 09-30-2022 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: **Signing**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	*Mr. Swanson's career began over 33 years ago when he worked as an electrician for the U.S. Navy. Even though he graduated in Civil Engineering, he completed several Electrical and Power Engineering courses and much of his career has focused on Electrical Engineering since he graduated in 1992. He has over 20 years of experience with transportation planning and traffic engineering. 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 and traffic signal design, traffic data collection and analysis, traffic signal warrant analysis, traffic signal timing and optimization, design of isolated traffic signal intersections, development of traffic control devices plans and computerized signal system design and engineering projects. He has completed Transportation Management Plans (TMPs) for LADOTD lighting and ITS projects. This includes several Level 4 TMPs in accordance with all applicable standards.*
02/20-Present	**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.
09/19-Present	**LA SAFE 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 Street 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.
2017	**PALMISANO BLVD. IMPROVEMENTS: Chalmette, LA.** *Traffic Engineer* - Mr. Swanson completed striping and signing for a bike path.
2007	**TRAFFIC SIGNAL / ITS STUDY AND DESIGN, DISTRICT 61, TASK 1 – LA HIGHWAY 73 AT I-10 AND LA 621: Ascension Parish, LA.** *Traffic Engineer* - Mr. Swanson provided Signal Modifications and Geometric Study. Task required conducting a traffic and transportation network analysis of LA 73/LA 621 at the I-10 interchange including project management, warrant analysis, traffic signal study, traffic signal timing and optimization, temporary work zone signage and assigned deliverables. Traffic counts, warrant analysis, field inspection of all four intersections; deliverables (report); Unsignalized intersection analysis and with signal study for St. John Street at Main Street, LA 22 at Pine and LA 22 at LA21/ LA1077. Traffic Signal Study - Manual Traffic Counts for LA 21 at Pine and St. John Street at Main Street (LA 21); Manual Traffic Counts for LA 22 at Pine and LA 22 at LA 21/LA 1077; Condition Diagram and Condition Report.
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.
04/16-10/16	**ORMOND BLVD. REHABILITATION: St. Charles Parish, LA.** *Traffic Engineer* - Mr. Swanson performed traffic counts and a new roadway striping plan.
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. Performed the Stage 0 and was involved in the Transportation Management Plan.

Firm employed by	**La Terre Engineering, LLC**		
Name	**Seneca Toussant, PE**	Years of relevant experience with this employer	2
Title	Civil Engineer	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization		B.S. /1999 / Biological Engineering	
Active registration number / state / expiration date		36080 / Louisiana / 09-30-2023	
Year registered	2011	Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities		Role on this Project: **Drainage Design, Roadway Design Support**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
20 years of experience	*Mr. Toussant is a registered civil engineer in four states currently with over 20 years of consulting experience for an extensive and varied range of projects. His experience includes roadway and drainage design, preparation of planning documents, design studies and hydrologic and hydraulic studies. Mr. Toussant has been involved in projects from the initial planning stages, through design, to project coordination and construction inspection through final acceptance. He is registered as a professional civil engineer in four states and his relevant project experience includes:*
06/2022-Ongoing	**SHARP ROAD (FLORIDA BLVD TO OLD HAMMOND HWY):** Baton Rouge, LA. Mr. Toussant is providing roadway design services including existing and proposed drainage maps, subsurface drainage design and preparation of preliminary and final plans, including typical sections and plan and profile sheets.
03/2022-Ongoing	**WARD CREEK AT SIEGEN LANE CHANNEL IMPROVEMENTS:** Baton Rouge, LA. Mr. Toussant is assisting in the preparation of construction documents for channel improvements for Ward Creek in Baton Rouge, Louisiana. His responsibilities also includes preparation of temporary traffic control plans, permits and permit figures for DOTD approval.
08/2021-Ongoing	**MOVEBR CAPACITY MANAGEMENT PROGRAM:** Baton Rouge, LA. Mr. Toussant serves as project manager for specialty contracts for the MoveBR Capacity program management team. He is responsible for the specialty contracts program which include environmental services, geotechnical services, surveying, lighting design and landscaping services. His responsibilities include preparing project scopes, soliciting proposals, contract negotiations, submittal coordination and submittal reviews.
03/2020-06/2020	**S.P. NO H.012339, LA 24 SIDEWALKS REHAB:** Houma, LA. Mr. Toussant was responsible for the preparation of construction documents for ADA compliant sidewalks on both sides of LA 24 from Barataria Avenue to New Orleans Boulevard in Houma, LA. He prepared preliminary and final plans, including grading, cost estimates, and design reports.
03/2020-06/2020	**CITY OF NEW ORLEANS:** RR119 Marlyville-Fontainebleau Group D (FRC): New Orleans, LA. Mr. Toussant was responsible for the preparation of preliminary plans for Colapissa Street and Nelson Street for the Marlyville-Fontainebleau Group D Project. He prepared typical sections and plan and profile sheets for the roadway reconstruction, which included upgrades to existing subsurface drainage and inlets in accordance with the LADOTD Hydraulics Manual.
03/2020-06/2020	**CITY OF NEW ORLEANS:** RR119 Marlyville-Fontainebleau Group F (FRC): New Orleans, LA. Mr. Toussant was responsible for the preparation of preliminary plans for Vincennes Place for the Marlyville-Fontainebleau Group F Project. He prepared typical sections and plan and profile sheets for the roadway reconstruction, which included upgrades to existing subsurface drainage and inlets in accordance with the LADOTD Hydraulics Manual.
07/2020 – 9/2020	**CHURCH STREET CULVERT REPLACEMENT:** Maringouin, LA. Mr. Toussant was project engineer and construction manager for the Church Street Culvert Replacement project which included preparing construction documents required for the replacement of 2-60" CMP Cross Drain pipes with 72" RCPA pipes on Church Street in Maringouin LA in Iberville Parish. Mr. Toussant duties included conducting a preconstruction meeting, biweekly site visits, review of pay applications, submittals and RFI's, progress meeting between contractor and owner, reviewed and monitored all required field testing, project final acceptance and project closeout.

Firm employed by	**La Terre Engineering, LLC**
Name	**Seneca Toussant, PE** *Continued Resume*
02/2020 – 08/2020	**COASTAL PROTECTION AND RESTORATION AUTHORITY:** Grand Isle State Park Improvement Phase I: Grand Isle, LA. Mr. Toussant was the lead civil engineer and project manager for the roadway and drainage improvement project at Grand Isle State Park. He was responsible for preparation of construction documents for 3 miles of asphalt roadway repairs, overlay and asphalt parking areas in accordance with LADOTD specifications, standards, and guidelines, including ADA accessible parking and access. Mr. Toussant provided construction administration including the review of pay applications, submittals and RFI's, conducted progress meeting between contractor, owner and CPRA, performed site visits, reviewed and monitored all required field testing, final acceptance and project closeout.
02/2018 – 09/2018	**S.P. NO. H.010768.6 MULTI-USE TRAILS (WEST BATON ROUGE):** Addis, LA. Mr. Toussant provided Construction Administration and CE&I services for the West Baton Rouge Multi Use Trail project on top of the Mississppi River Levee in West Baton Rouge Parish. Mr. Toussant was responsible for engineering and inspection services including conducting the pre-construction meeting, maintaining field records and project diaries on LADOTD SiteManager, coordinating testing and sampling for Quality Assurance in accordance with the LADOTD Sampling and Testing Manual, review and approval of contractor submittals, final acceptance and project closeout.
2016	**LA 3127 EXTENSION CORRIDOR STUDY:** Ascension Parish, LA. Mr. Toussant provided QA/QC for a feasibility study for the extension of LA 3127 from its current terminus at LA 70 in Ascension Parish to the intersection of LA 943 and US Hwy 1 including a proposed Bayou Lafourche bridge crossing at Hwy 1 and LA 308.
03/2017 - 08/2017	**FALGOUT CANAL ROAD REPAVING PROJECT:** Terrebonne Parish, LA. Mr. Toussant was the lead civil engineer and project manager for the roadway project. He was responsible for preparation of construction documents for roadway repairs, elevation adjustments and overlay in accordance with LADOTD specifications, standards, and guidelines. Mr. Toussant performed construction administration including biweekly site visits, the of review of pay applications, submittals and RFI's, progress meeting between contractor and owner, reviewed and monitored all required field testing, project final acceptance and project closeout.
12/15 - 08/16	**INTERSECTION IMPROVEMENTS AND ROADWAY REALIGNMENTS:** Calcasieu Parish, LA. Mr. Toussant was the project manager and lead design engineer responsible for the design and preparation of construction documents and cost estimates for 11 roadway intersection improvements required to mitigate traffic impacts along state and parish roadways for the proposed Axiall Plant Expansion in Calcasieu Parish, LA. He prepared and reviewed plans, including demolition, geometric drawings, signing plans, associated drainage improvements and was responsible for ROW acquisitions, coordinating existing utility relocations.
02/07 – 06/08	**S.P. NO. 817-41-0014, CP PROJECT NO. 06-CS-HC-0029:** South Harrell's Ferry Road Improvements, GLP East Baton Rouge Parish: Baton Rouge, LA. Mr. Toussant was responsible for the horizontal and vertical alignments designs for portions of the project and the subsurface drainage design which was completed utilizing the LADOTD hydraulics software.

Firm employed by	**La Terre Engineering, LLC**		
Name	**Lyle Tynes, EI**	Years of relevant experience with this employer	1
Title	Engineer Intern	Years of relevant experience with other employer(s)	0.5
Degree(s) / Years / Specialization		B.S. /2020 / Civil Engineering	
Active registration number / state / expiration date		35128 / Louisiana / 09-30-2022	
Year registered	2022	Discipline	Engineer Intern
Contract role(s) / brief description of responsibilities		Role on this Project: **Drainage Design, Roadway Design Support**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
1.5 years of experience	*Mr. Tynes is a recent graduate of Louisiana State University in Civil Engineering. Mr. Tynes' experience includes subsurface and open channel drainage system design, roadway geometry and compiling construction packages for a wide range of projects, including preparing drawings, specifications and other construction documents, and coordinating with clients*
06/2022-Ongoing	**SHARP ROAD (FLORIDA BLVD TO OLD HAMMOND HWY):** Baton Rouge, LA. Mr. Tynes is providing roadway design services including existing and proposed drainage maps, subsurface drainage design and preparation of preliminary and final plans, including typical sections and plan and profile sheets.
02/2022-Ongoing	**LOUISIANA WATERSHED INITIATIVE LA 22 GAPPING PROJECT:** Ascension, LA. Mr. Tynes is part of the grant administration team for the project and his responsibilities include construction administration assistance, site inspections, review of contractor invoices and construction monitoring for the LA 22 gapping project.
03/2022-Ongoing	**WARD CREEK AT SIEGEN LANE CHANNEL IMPROVEMENTS:** Baton Rouge, LA. Mr. Tynes is assisting in the preparation of construction documents for channel improvements for Ward Creek in Baton Rouge, Louisiana. His responsibilities also includes preparation of temporary traffic control plans, permits and permit figures for DOTD approval.
08/2021-Ongoing	**MOVEBR CAPACITY MANAGEMENT PROGRAM:** Baton Rouge, LA. Mr. Tynes is currently providing drafting and permit drawing support for required various roadway improvement projects as part of the capacity management program for the City of Baton Rouge's MoveBR Capacity Program.
01/2022-Ongoing	**LOUISIANA WATERSHED INITIATIVE TOWN OF MARINGOUIN IMPROVEMENTS:** Maringouin, LA. Mr. Tynes is responsible for the preparation of preliminary and final construction documents for roadside drainage improvements for the Town of Maringouin Drainage Improvements project. His responsibilities include preparation of construction documents for roadside open channel and subsurface drainage systems, cost estimates, bidding and construction documents.
08/2021-Ongoing	**ENTERGY LOUISIANA - DIAMOND D INDUSTRIES:** Calcasieu Parish, LA. Mr. Tynes is providing engineering and construction support as required for multiple projects for Diamond D Industries on behalf of Entergy Louisiana. This support includes preparing temporary traffic control plans and permits throughout the state of Louisiana to DOTD for road and lane closures and civil site design for laydown yards, driveway permitting, turn analysis using WB67 vehicle configuration and access roads with DOTD and multiple Parishes.

17. Firm Experience

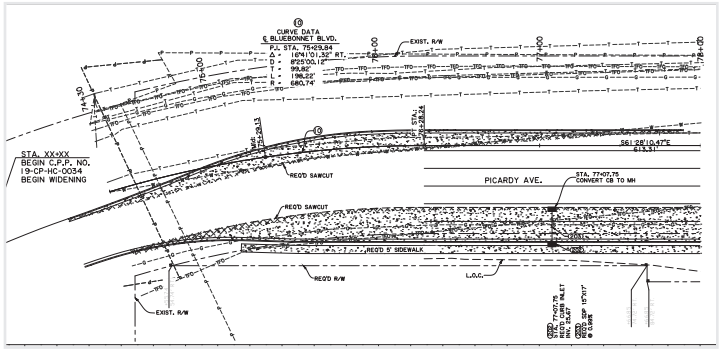
Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Road, Bridge**
Project Name	**Bluebonnet Blvd. (Perkins Road to Picardy Avenue)**	Firm responsibility (prime or sub?)	Prime
Project Number	City-Parish Project No. 19-CP-HC-0034	Owner's Name	City-Parish of East Baton Rouge
Project Location	Baton Rouge, Louisiana	Owner's Project Manager	Tom Stephens, PE
Owner's address, phone, email	PO Box 1471, Baton Rouge, LA 70821, (225) 389-3186, tstephens@brla.gov		
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost ($1,000's)	$ 1885
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$ 995

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.

GEC was selected by the City-Parish of East Baton Rouge to design an additional lane in each direction on Bluebonnet Blvd., currently a four-lane roadway between Perkins Road and Picardy Avenue, along with redesigning the existing bridges over Dawson Creek. GEC completed a design study and is currently in the final design phase for a six-lane boulevard, curb and gutter roadway with subsurface drainage, green infrastructure and pedestrian facilities. GEC's design is in accordance with MOVEBR Design Guidelines and Consultant Services Manual. GEC's design study included preliminary horizontal/vertical alignments and intersection geometry based on LIDAR information.

GEC provided a hydraulic analysis for Dawson Creek Bridge replacement and 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. GEC performed 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 and is currently performing design and construction plan development of the replacement bridges.



GEC was tasked with threading an additional lane through this narrow, highly-congested corridor with underground utilities

The existing separated bridges provide for two (2) traffic lanes in both the southbound and northbound directions. The new bridges will provide five (5) lanes of traffic (three (3) through and two (2) turn lanes) in the southbound direction and three (3) lanes of through traffic in the northbound direction. The southbound bridge will have a clear roadway width of 58'-0" made up of five (5) 11-0" lanes and two (2) 1'-6" shoulders. On the northbound bridge, three (3) 11'-0" lanes and two (2) 1'-6" shoulders will provide a clear roadway width of 38'-0". The bridges will have a 10'-0" wide multi-mode sidewalk (southbound) and a 5'-0" wide pedestrian sidewalk (northbound). The assumed bridge structure consists of three 80'-0" LG-36 pre-stressed concrete girder spans with cast-in place concrete decks. All spans contain parallel girders and do not have any end skews. The cast-on-place abutments will be supported by two (2) rows of 16" square pre-stressed concrete piles and the intermediate bents will consist of cast-in-place concrete caps supported by 24" square precast pre-stressed concrete piles. The bridge design will incorporate a construction phasing that ensures 2-lanes of traffic at all times in both directions. The temporary traffic lanes will be 11'-0" wide and no shoulders will be provided. Phasing will be as follows: Phase I: Construction of a bridge in the median between the 2 existing bridges; Phase II: Demolition and re-construction/widening of the existing southbound bridge after southbound traffic is re-directed on to the median bridge; Phase III: Demolition and re-construction/ widening of the existing northbound bridge after moving southbound traffic on to the new southbound bridge and re-directing northbound traffic on to the median bridge. GEC will also provide a complete analysis of the existing drainage system to determine its adequacy and necessary modifications following completion of a topographic survey. GEC is participating in public and other agency meetings, including bi-weekly status meetings.

Firm Members Involved: Cary Bourgeois, Keith Rebello, Jerome Lohmann, Alison Nissen, Chris Nipper

Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Road, Bridge**
Project Name	**Chevelle Drive and Sarasota Drive Bridge Replacements**	Firm responsibility (prime or sub?)	Prime
Project Number	Bridge Recall No(s). 800541 and 800561; City Parish Project No. 18-BR-US-0016; Contract No. 800001943	Owner's Name	City-Parish of East Baton Rouge
Project Location	Baton Rouge, Louisiana	Owner's Project Manager	Tom Stephens, PE
Owner's address, phone, email	PO Box 1471, Baton Rouge, LA 70821, (225) 389-3186, tstephens@brla.gov		
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)	$ 319
Services completed by this firm (mm/yy)	12/21	Cost of consultant services provided by this firm ($1,000's)	$ 271

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

GEC 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.

GEC's preliminary and final design study tasks included planning, procuring, and preparing environmental studies for preliminary design. GEC performed an alignment study to determine detour routes, typical sections, and horizontal and vertical alignments along with bridge site/watershed evaluations and associated preliminary construction cost estimates.

GEC provided a hydraulic analysis using HEC-RAS, following LADOTD's Guidelines for Off System Bridges. This included an analysis of alternate replacement structures, based on flow and compared replacement alternates to the existing structure, along with recommendations for replacement and scour analyses.

GEC prepared a final report summarizing findings. GEC also conducted a wetland analysis/delineation for the replacement project, performed 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.

GEC also provided USACE Permitting services including a Pre-Construction Notification (PCN) packet.

GEC performed final design of both replacement bridges and 98% final plans were submitted. Each replacement bridge provides 30' clear roadway with a 7'-0" walkway on each side. GEC designed 20' approach slabs with sidewalks at each end. Detailed design for each bridge consisted of the following:

Chevelle Drive Bridge: This bridge crosses the west fork of the north branch of Ward Creek at a 30-degree skew angle. This 80' long slab span bridge consists of four 20' spans supported by pile bents within 16" square PPC piles.

Sarasota Bridge: This 100' long slab span bridge crosses Engineers Depot Canal with zero skew angle and consists of five 20' spans supported by pile bents with 24" square PPC piles.

Rebuilding of the approach roadways and drainage were also included in the project.

Firm Members Involved: Cary Bourgeois, Keith Rebello, Jerome Lohmann, Alison Nissen, Chris Nipper

Both bridges were located in a FEMA flood plain and the 100 year design water surface could not be raised

Firm Name	**G.E.C., Inc.**	Past Performance Evaluation Discipline(s)*	**Road, Bridge**
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)	02/20	Total consultant contract cost ($1,000's)	$ 52,385
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.)

* 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.

LADOTD selected the BOH/GEC Team to provide engineering services for this Design-Build contract. Our Team's design improves the flow of traffic and increases safety by realigning the two existing I-12 WB through lanes to more closely follow the I-12 EB existing alignment. Our design replaces 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 Drive exit ramp, while utilizing the existing I-12 WB pavement for the I-12 WB College Drive exit ramp. GEC's design services also include improvements to the I-12/I-10 exit lane at the College Drive intersection.

GEC designed the widening of the I-10 westbound bridge over Ward Creek, a bridge structure encompassing three (3) 55' long simple spans composed of rolled steel girders with a cast-in-place concrete deck. While the bridge is in a curve, the girders are parallel with a varying overhang. The spans are skewed at approximately 55 degrees. GEC's design rehabilitates the existing bridge, replaces the deck joints, and incorporates a bridge sound barrier. The project requires that 5-lanes of traffic be maintained at all times though this heavily-traveled corridor; therefore, GEC staff developed the bridge plans to construct the widening and rehabilitation in multiple phases.

In addition to bridge design, GEC completed roadway construction plans and geometric layout for the entire project, ensuring conformance to LADOTD and AASHTO standards. GEC also provided hydraulic design, which included several subsurface drainage systems, cross drains, and a hydraulic channel analysis to ensure the project did not negatively impact the surrounding areas.

GEC's electrical department provided a photometric report and lighting design plans, which consist of both high-mast and low-mast lighting. GEC's electrical design includes eight (8) new high-mast light poles and re-uses four (4) existing high-mast light poles, along with the addition of three (3) ground-mount low-mast light poles and twenty-two (22) median barrier mount low-mast light poles.

GEC staff is currently providing construction engineering and inspection services, which requires the review of engineering shop drawings and equipment submittals from the contractor for this ongoing project.

GEC's innovative design allows the majority of the project to be constructed without any significant changes to current traffic patterns, greatly increasing worker and public safety.

Firm Members Involved: Cary Bourgeois, Keith Rebello, Jerome Lohmann, Alison Nissen, Chris Nipper

Firm Name	**G.E.C., Inc.**			Past Performance Evaluation Discipline(s)*	**Road**
Project Name	**US 11 Improvements at Schneider Canal**			Firm responsibility (prime or sub?)	Prime
Project Number	H.011435		Owner's Name	St. Tammany Parish Government, LADOTD	
Project Location	Slidell, Louisiana		Owner's Project Manager	Donna O'Dell	
Owner's address, phone, email	21490 Koop Drive, Mandeville, LA 70471, (985) 898-2522, dsodell@stpgov.org				
Services commenced by this firm (mm/yy)	03/15		Total consultant contract cost ($1,000's)	$ 4,900	
Services completed by this firm (mm/yy)	08/16		Cost of consultant services provided by this firm ($1,000's)	$ 442	

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 project is on US Hwy 11 at its intersection with the St. Tammany Parish flood protection levee near Lake Pontchartrain. The Parish funded the design of the project and LADOTD funded its construction. The plans and specifications were produced by GEC in conformance with LADOTD standards. GEC understood the importance of this project to St. Tammany Parish and, to ensure that the Parish didn't lose Federal funding, GEC submitted final stamped plans to LADOTD for advertisement with the Parish's approval before receiving a signed contract from the Parish.

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. 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. The project was complicated by the presence of Schneider Canal (approximately 90-100 feet wide) which was directly adjacent and parallel to the levee. GEC redesigned the large triple-barrel box culvert cross drain under US 11 for Schneider Canal from its original 70-foot length to 200-feet. A well-planned 3-phase sequencing plan enabled maintenance of traffic throughout construction. 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. Low bid for the construction was $4.9 million and construction of the project was completed in 2018. In addition, the levee, which was part of this project, was completed before the start of hurricane season.

This project was the first project ever designed with LADOTD specifications that included a levee.

Firm Members Involved: Jerome Lohmann

Firm Name	**G.E.C., Inc.**			Past Performance Evaluation Discipline(s)*	**Road, Bridge**
Project Name	**Highland Road (LA 42) Improvements (Perkins to Airline)**			Firm responsibility (prime or sub?)	Prime
Project Number	06-CS-HC-0026	Owner's Name	City-Parish of East Baton Rouge		
Project Location	Baton Rouge, Louisiana		Owner's Project Manager	Bryan Harmon, PE	
Owner's address, phone, email	PO Box 1471, Baton Rouge, LA 70821, (225) 389-3186				
Services commenced by this firm (mm/yy)	2006	Total consultant contract cost ($1,000's)		$ 1,213	
Services completed by this firm (mm/yy)	2011	Cost of consultant services provided by this firm ($1,000's)		$ 1,213	

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

For this Green Light Plan project, GEC designed additional lanes, new bridge crossings, and a raised median for Highland Road from Perkins Road to Airline Highway.

The new bridge crossings at both Ward's Creek and Old Ward's Creek tied to completed intersection improvements at Perkins Road and at Airline Highway. GEC's design included an at-grade railroad crossing with the Kansas City Southern Railroad.

The bridges are 240' (6 spans at 40') and 160' (4 spans at 40') in length respectively composed of quad beams or 24" pile bents all designed from AASHTO LRFD. GEC's contract responsibilities included the design and detail of the roadway and bridges, topographic survey, right-of-way maps, environmental permitting, coordinate with railroad and utilities and hydraulic analysis.

GEC conducted an Environmental Site Assessment (ESA) and a wetland delineation. The ESA was performed in accordance with the scope and limitations of ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. In order to characterize environmental conditions 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. This assessment revealed no recognized environmental conditions (RECs) on or in the vicinity of this project.

GEC designed this curb and gutter roadway with sub-surface drainage and two replacement bridge structures.

The wetland delineation was conducted 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.

Firm Members Involved: Varaprasad Venkata, Jeff Robinson

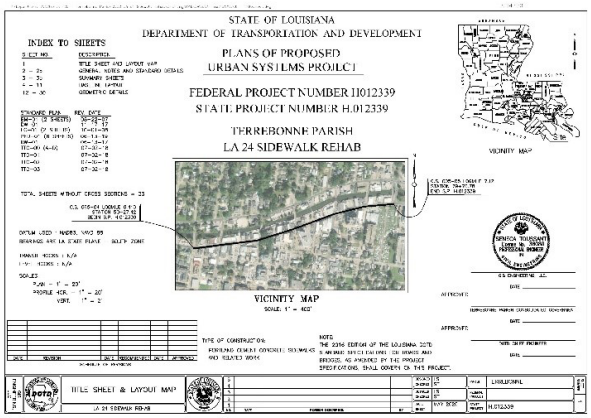
Firm Name	**La Terre Engineering, LLC**	Past Performance Evaluation Discipline(s)*	**Road**
Project Name	**La 24 Sidewalk Rehabilitation**	Firm responsibility (prime or sub?)	Sub
Project Number	H.012339.5	Owner's Name	Louisiana Department of Transportation and Development
Project Location	Houma, LA	Owner's Project Manager	Prime Contact: Jacob M. Loeske, PE
Owner's address, phone, email	Prime: 450 Laurel Street, Suite 1500, Baton Rouge LA 70801, 225.408.0700 jloeske@gisy.com		
Services commenced by this firm (mm/yy)	04/21	Total consultant contract cost ($1,000's)	$ 92
Services completed by this firm (mm/yy)	07/21	Cost of consultant services provided by this firm ($1,000's)	$ 4

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 project consisted of the design of ADA compliant sidewalks on both sides of LA 24 from Barataria Avenue to New Orleans Boulevard in Houma, LA. The purpose of this project was to improve pedestrian access along the corridor. LTE supported the preliminary and prepared final design plans for the project which included:

1. Assembly and study of existing data, As-Built plans, improvement studies, boring information, traffic data, and field reconnaissance.
2. Design and preparation of preliminary plans in accordance with the requirements outlined in the latest AASHTO Standard Specifications for Highways and Bridges and in accordance with the Urban System Project Manager.
3. Preparation of specifications for the project in accordance with the latest edition of the Louisiana Standard Specifications for Roads and Bridges, and with the current practices of the DOTD.
4. Preparation of 100% Preliminary Plans QA/QC Checklist, and other pertinent documents.
5. Preparation of initial cost estimates based on the preliminary plans.
6. Preparation of all special specifications, specialty item descriptions, and details for the project.
7. Preparation and Engineer of Record for Final Construction Plans.



Firm Members Involved: *Seneca Toussant, PE*

Firm Name	**La Terre Engineering, LLC**	Past Performance Evaluation Discipline(s)*	**Road**
Project Name	**Sharp Road (Florida Blvd to Old Hammond Hwy)**	Firm responsibility (prime or sub?)	Sub
Project Number	22-CP-HC-0025	Owner's Name	City of Baton Rouge Parish of East Baton Rouge
Project Location	Baton Rouge, LA	Owner's Project Manager	Prime Contact: Drew Walsh, PE
Owner's address, phone, email	Prime : 8383 Bluebonnet Boulevard, Baton Rouge LA 70810, 225.766.5358 dwalsh@gotech-inc.com		
Services commenced by this firm (mm/yy)	06/22	Total consultant contract cost ($1,000's)	$ 800 (E)
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$ 100 (E)

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.

La Terre Engineering, LLC (LTE) is part of the team selected by East Baton Rouge City Parish for the Sharp Rd Corridor Enhancement (Old Hammond Hwy to Florida Blvd) Project No. 20-CP-HC-0025

This project will enhance both pedestrian and cyclist mobility along the Sharp Road corridor for approximately 8,500 L.F. Access to public facilities as well as addressing walkability / bikeability concerns in problematic areas by providing better crossing conditions are some of the main considerations to enhancing this corridor for pedestrian and bicycle users. Intersection, signalization, and turn lane improvements will also be considered at key locations.

LTE is providing preliminary and final plans for the project including development of existing and proposed drainage maps and subsurface drainage design in accordance with the DOTD Hydraulics Manual.

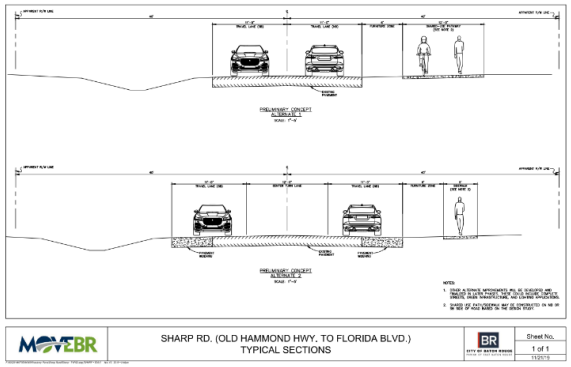


Image above represents broad outline of the project area as shown in 2018 MOVEBR tax plan proposition

Project: Sharp Rd. (Old Hammond Hwy. to Florida Blvd.)

Firm Members Involved: *Seneca Toussant, PE, Lyle Tynes*

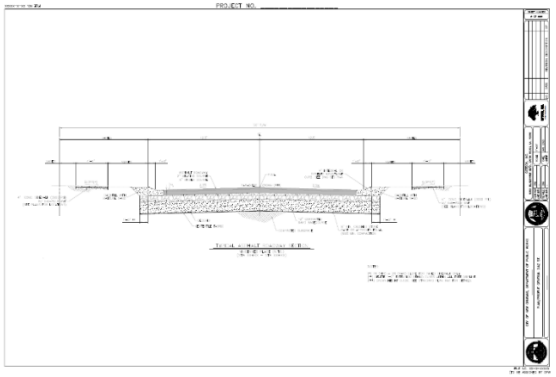
Firm Name	**La Terre Engineering, LLC**	Past Performance Evaluation Discipline(s)*	**Road**
Project Name	**Fountainebleau Group F**	Firm responsibility (prime or sub?)	Sub
Project Number	RR119	Owner's Name	City of New Orleans
Project Location	New Orleans, LA	Owner's Project Manager	Prime Contact: Drew Walsh, PE
Owner's address, phone, email	Prime : 8383 Bluebonnet Boulevard, Baton Rouge LA 70810, 225.766.5358 dwalsh@gotech-inc.comv		
Services commenced by this firm (mm/yy)	03/20	Total consultant contract cost ($1,000's)	$ 200 (E)
Services completed by this firm (mm/yy)	06/20	Cost of consultant services provided by this firm ($1,000's)	$ 7

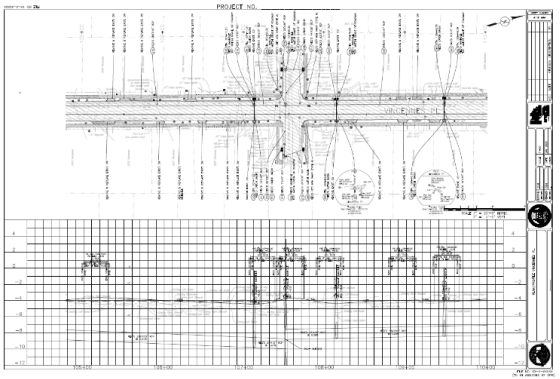
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

* 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.

La Terre Engineering, LLC (LTE) and specifically, Mr. Seneca Toussant, P.E prepared preliminary plans for Marlyville-Fontainebleau Group F project as part of the FEMA Recovery Program as a subconsultant to GOTECH, Inc. LTE developed typical sections, prepared plan and profile sheets and cross section sheets for the reconstruction of Vincennes Place which included replacement of damaged underground water, sewer and drainage lines, repaving the roadway, replacement of damaged sidewalks and driveway aprons, and installing ADA compliant curb ramps at intersections. Rehabilitation included resizing and replacement of existing storm drainpipes and demolition and replacement of existing drain inlets. Storm drain pipe sizes and inlet spacing were sized and placed in accordance with the LADOTD Hydraulics Manual using the LADOTD Hydraulics Program.

LTE prepared preliminary plans in accordance with the City of New Orleans Design Guidelines, LADOTD Hydraulics Manual, 2017 LADOTD Minimum Design Guidelines and 2016 LADOTD Standard Specifications for Roads and Bridges.





Firm Members Involved: *Seneca Toussant, PE*

LA 447 Corridor

Summary of Experience

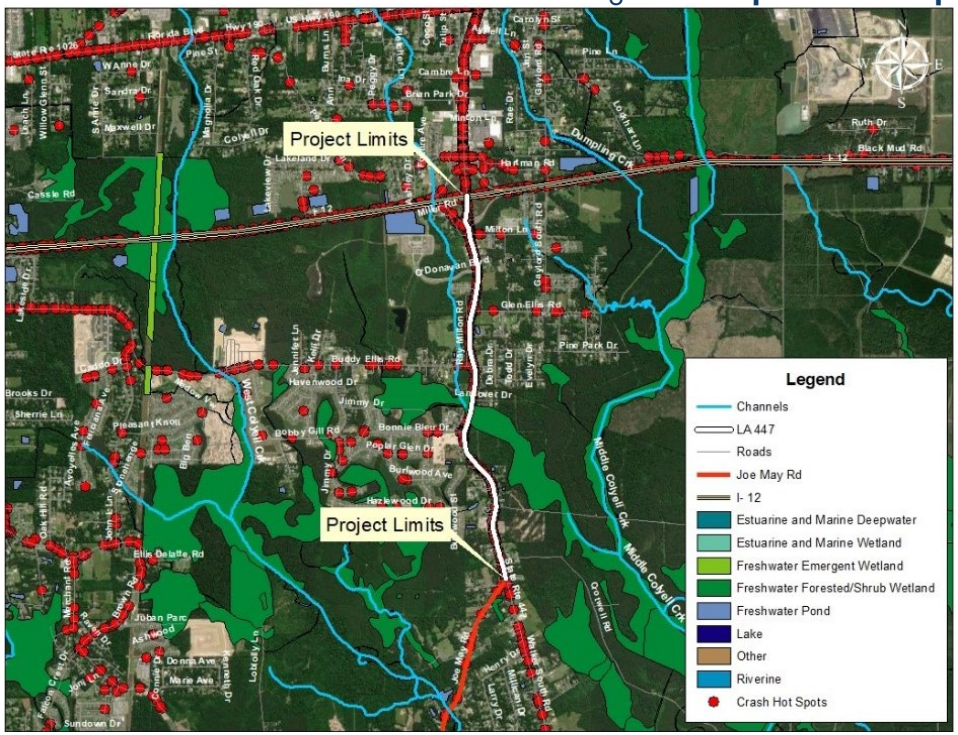
G.E.C., Inc. (GEC) is pleased to offer LADOTD a team significantly experienced in developing preliminary and final roadway and bridge plans, cost estimates, hydraulic analysis and design, special provisions, Transportation Management Plans (TMPs), quality plan reviews, and construction support in accordance with LADOTD. The GEC Team will perform roadway and bridge design to provide the highest quality project to advance to successful construction. GEC, along with team member, **La Terre, a DBE firm,** provides LADOTD all required capabilities to meet the needs of this contract. **This extremely experienced team has the skill to exceed LADOTD's expectations for the various road, roundabout, intersection, turning lane, and bridge sections that are required as a part of this contract.**

GEC's 36+ year portfolio of road and bridge projects is diverse, ranging from local 2-lane roadways and bridge replacement projects to multi-lane urban roadways and interstate widening.La Terre is experienced with a full range of transportation infrastructure projects, including local roadway and state highway design, stormwater conveyance, green infrastructure, ADA Compliance, and multi-modal transit. **Our team of professional engineers and support staff have significant experience in the design of all major AASHTO highway classifications.** GEC has maintained a core team of engineers that specialize in transportation projects in our Baton Rouge Headquarters and Metairie office supported by technical staff. We have performed engineering services for roadways, bridges, traffic and ITS systems, port facilities, flood protection, water and sewer systems for LADOTD and other agencies and municipalities throughout Louisiana in accordance with the current edition of LADOTD's Roadway Design Procedures and Details Manual. As seen in our portfolio of projects, GEC has performed road design services for state routes, whether it was directly through contract with LADOTD or through permit for a municipality. GEC has also provided design reviews on Design-Build projects for LADOTD through OV contracts.

Scope Understanding

GEC's design staff performed a site visit to evaluate current conditions. Figure 1 displays the project vicinity, major drainage channels, wetlands, and crash hot spots. LA 447 (Walker South Road), located just south of the City of Walker, is a North-South Urban Arterial roadway with a posted speed of 45 mph for most of the corridor. This area has seen tremendous growth, with Livingston Parish ranked as one of the fastest growing parishes in the state. Due to the increase in population, LA 447 experiences major queues along the corridor as well as onto the interstate. GEC understands that, although roundabouts were installed at the I-12/LA 447 ramp intersections to alleviate some of the congestion, further upgrades are necessary to improve traffic flow and reduce congestion.

Figure 1. **Project Area Map**



PROJECT OBSERVATIONS

UTILITIES It appears multiple utilities are present along the corridor, including overhead power and cable alternating between the west & east sides of LA 447, water & fire hydrants located on the west side of LA 447, fiber optic telephone & gas along the east side of LA 447, & gas crossings.

BRIDGE Colyell Creek crosses the project corridor near Landover Dr., approx.1,400' south of Buddy Ellis. Middle Colyell Creek Bridge (Structure 62322680106971) was built in 1958 and is a pre-cast concrete slab bridge, consisting of 2 travel lanes.

DRAINAGE At the south side of the east bound off ramp of Highway 12, there are 3 crossdrains and one bridge that drains storm water to Middle Colyell Creek.

Approach

GEC understands LADOTD's typical sequence of project development and will complete all tasks that are a part of each required submittal. GEC will provide all engineering services necessary for LADOTD's Stage 3, Design: Preliminary Plans and understands that Stage 3, Design: Final Plans and Stage 5, Construction Support may be initiated by a supplemental agreement in the future, if necessary. GEC is prepared and has the capacity and capability to provide all services to get the project to completion through Stage 6: Operation, as defined by LADOTD's Project Development Process. The following is an overview of the methodology GEC will follow to provide Stage 3, Design: Preliminary Plans for the LA 447 Corridor Project:

Project Kickoff

Once a project is assigned by Task Order and Notice to Proceed (NTP) is issued, GEC will hold a kickoff meeting with LADOTD staff to determine the status and scope of the project. The steps for this work will include:

1. Field Review to determine any constraints, including right-of-way, drainage, utilities, railroad, and other design and construction impacts.
2. The pre-design criteria and LADOTD Minimum Design Guidelines will be established before the kickoff meeting and will be reviewed at the meeting.
3. Traffic data, geotechnical data, pavement design, as-built plans, and other relevant data that is available will be requested and reviewed at this meeting to determine if any additional field services are necessary. If additional services are required, supplemental agreements will be prepared.
4. The environmental assessment will be reviewed to determine the current status, and if any findings result in necessary changes to the proposed improvements.
5. Project points of contact, schedule, budget, invoicing procedures, QA/QC procedures, QA/QC plan document, project schedule, and other project management tasks will be discussed and established.
6. Minutes from this meeting will be prepared and distributed to all attendees and will become a part of the official project record.

The schedule will be established at the kickoff meeting and will be continuously updated throughout the project process, submitted monthly as a part of the invoice packet and with each project milestone. The schedule will include each task, estimated completion dates, percent complete, and actual dates. Suitable reoccurring project meetings will be scheduled for both the internal team and the external team as needed as the project progresses. A sample project schedule is included as Figure 2.

Preliminary Engineering Plan Development

GEC is very familiar with LADOTD, national, and local standards and practices. Due to our diverse portfolio of roadway design and management services for both LADOTD and municipalities, GEC is poised to provide LADOTD with robust experiences that will allow the GEC team to provide innovative solutions to the toughest roadway design challenges. For the US 11 Improvements project at Schneider Canal in Slidell, GEC accomplished all aspects of design (excluding geotechnical) with its own in-house personnel incorporating an improved curbed road section including a raised median and a bike path for the first project ever designed with LADOTD specifications that included a levee. GEC's Jerome Lohmann, PE served as Project Manager for the design which elevated US 11 at the levee so that ongoing construction could continue without a break in flood protection at the highway.

The GEC Team will prepare all plans in accordance with the most current LADOTD CAD standards. In addition to the key personnel shown in this package, GEC support staff includes a depth of highly knowledgeable and skilled CAD personnel, experienced in utilizing Bentley's *Microstation* and *InRoads* programs.

After either performing any necessary additional services such as survey or geotechnical or approving the existing provided information, and after receiving approval on road and bridge design criteria, the GEC Team will begin developing engineering plans. The GEC Team will upload e-deliverables into the LADOTD ProjectWise repository at any necessary milestone as required by the Task Order. **For each required LADOTD submittal, the GEC Team will perform stringent quality reviews to ensure all required items are submitted and that they are accurate and meet our quality acceptance criteria.** The plan submittals for this work will generally adhere to the LADOTD Road Design and Bridge Design requirements, as follows:

1. 30% Preliminary Plans

ROADWAY

a. Field reviews if necessary and update pre-design criteria and minimum design guidelines
b. Topographic survey, including apparent right-of-way and traffic data
c. Pavement design, soil boring and pH/resistivity data, utility and railroad review, if necessary
d. Plan Sheets to include: plan and profile sheets with existing topo, establishing horizontal and vertical alignment, typical sections, title sheet

BRIDGE

a. Completed Bridge Design Criteria and write-up discussing Bridge Type, Size and Location
b. Plan sheets under development containing a bridge index, bridge general notes, a summary of estimated quantities, general plans and tyical sections

GEC is prepared to provide LADOTD with bridge design criteria for approval to develop bridge plans to replace the bridge. GEC will ensure traffic is maintained during construction by developing construction sequencing and a Level 2 TMP.

2. 60% Preliminary Plans

ROADWAY

a. Revise based upon comments received in 30% Preliminary Plan review
b. Existing and proposed hydraulics calculations and drainage map
c. Plan Sheets to include: plan and profile sheets including revised horizontal and

vertical alignments, geometric details, cross sections, typical sections, existing and proposed drainage, utility and railroad recommendations, earthwork computations, preliminary right-of-way taking, and sequence of construction and signing

BRIDGE

a. Revise based upon comments received in 30% Preliminary Plan review.
b. Existing and proposed bridge hydraulics calculations
c. In addition to further developed plan sheets from the 30% submittal, develop and submit plans for a superelevation diagram (if required), construction phasing details, traffic controls details, and a foundation pile layout.

3. 95% Preliminary Plans (Plan-In-Hand)

ROADWAY

a. Revise based upon comments received in 60% Preliminary Plan Review
b. A preliminary QA/QC will be performed and then a pre-plan-in-hand review will take place before the plan-in-hand is distributed
c. Plan sheets to include: title sheet, typical sections, plan and profile, including right-of-way taking lines, existing and proposed drainage, geometric details, sequence of construction, construction signing, summary of estimated quantities, and cross sections

GEC has provided project management and road design services to local entities on non-state highways as well as complete streets elements including bike and pedestrian paths and green infrastructure.

d. Once the plans are distributed, a plan-in-hand meeting will be scheduled. Attendees typically include LADOTD, municipal/parish representatives, LADOTD district personnel, and members of the design team. The GEC Team will assist in scheduling and conducting the meeting and documenting comments received.

BRIDGE

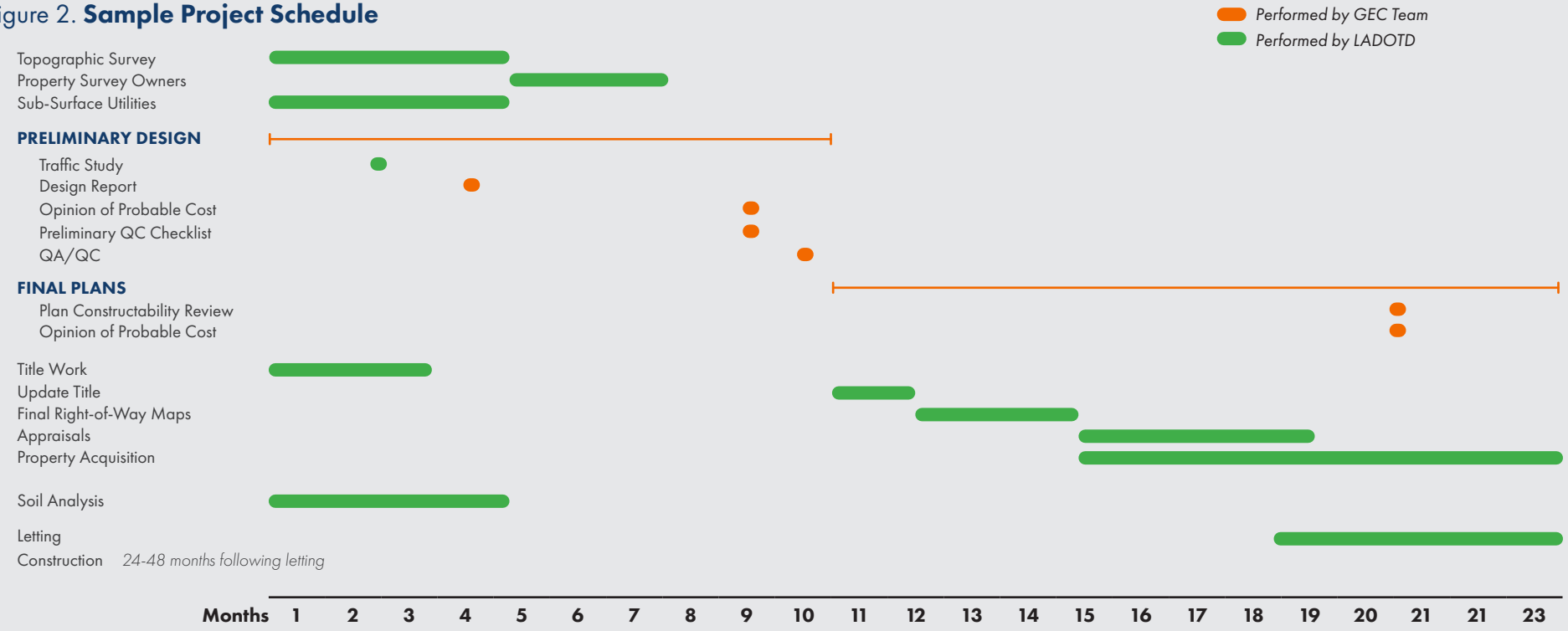
a. Revise based upon comments received in 60% Preliminary Plan Review.
b. Summary of estimated quantities, bridge general plans and typical sections completed.
c. Continued development of all other plans.
d. Submit a cost estimate for bridge construction.

4. 100% Preliminary Plans

ROADWAY

a. Revise based upon comments received in 95% Plan-In-Hand Review
b. Final right-of-way taking lines transmitted to location and survey

Figure 2. **Sample Project Schedule**



c. Permit sketches, if needed; at this time environmental clearance may be necessary. The Team has staff to provide for any required environmental tasks.
d. Preliminary cost estimate

BRIDGE

a. Revise based upon comments received in 90% Preliminary Plan review.
b. Complete all plan sheets.
c. Submit a cost estimate for bridge construction.

The 100% preliminary submittal will include the 100% preliminary road and bridge plans, opinion of probable costs, design report, QA/QC Certification, TMP, detour plans, special provisions, non-standard pay items, design waivers, and/or exceptions, if necessary. **GEC is fully prepared to continue this contract following the approval of the 100% preliminary plans and proceed to final plans and construction support, if needed.** GEC will follow the LADOTD requirements established in the Roadway Design Procedures and Details Manual and Hydraulics Manual, similar to the preliminary plan stages, as outlined above, for the additional phases once environmental clearance has been received.

Transportation Management Plan

The GEC Team will develop a Level 2 Transportation Management Plan (TMP) in accordance with EDSM VI.1.1.8, as follows:

- Coordinate with LADOTD to obtain traffic volume, peak counts if needed, and safety data for traffic study to perform safety analysis and alternative route analysis.
- If historic data is not available, follow the Traffic Study Scope of Services as outlined on the LADOTD Traffic Engineering website.
- Along with specifying the correct TTC Details, coordinate with the bridge/road designers on a Work Zone Impact Management Strategy document to minimize risk and delays to the travel public.
- TMP submittals may include: TTC Details and Plan, Mitigation, Evacuation Strategies, Detour Analysis, Queue Analysis, Work Restrictions, Safety Analysis, and Stakeholder/Public Involvement.

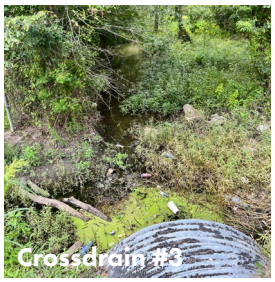
GEC has developed Level 2 TMPs for LADOTD projects. GEC has also completed Level 4 TMPs for LADOTD electrical and ITS projects which include the I-12/LA 1088 and I-12/LA 434 Interchanges.

Construction Sequencing

The sequence of construction will generally be to widen to one side of the existing roadway at a time, with exceptions for the bridge and roundabouts. As per the EA, a detour will be provided for the bridge construction and traditionally constructed roundabouts; however, GEC will work with LADOTD to confirm options for construction sequencing and traffic flow in order to provide a best-valued approach.


Crossdrain #1


Crossdrain #2


Crossdrain #3

Hydraulic Analysis and Design

GEC and sub-consultant La Terre Engineering will provide all hydraulic analysis and design of drainage and bridge features. LADOTD's requirements, which shall govern hydraulic analysis and design, are specified in the current edition of LADOTD's Hydraulics Manual. GEC will perform any necessary hydraulic analyses for the design of adequate drainage along the roadway and for the replacement of the 55' bridge over Middle Colyell Creek to ensure that stormwater is effectively managed. To complement traditional drainage systems, green infrastructure solutions will also be evaluated to improve and provide better opportunities to manage stormwater as well as the added social, economic, and environmental benefits. As shown in the photos above, there are three crossdrain locations within the project limits. Crossdrain #1 is a 42" Corrugated Metal Pipe Arch (CMPA) approximately 900' north of Buddy Ellis Rd. Crossdrain #2 is three 42" CMPA pipes. Crossdrain #3 is one 54" CMPA.

Quality Plan Reviews

GEC will perform detailed engineering reviews not limited to construction plans, cost estimates, and special provisions developed in association with this contract, by LADOTD's in-house design section or by other consultants. **GEC's written Quality and Assurance procedures meet LADOTD's requirements and serve as the basis for our work on all contracts, requiring that each member of the team follows the procedures so that work is performed correctly and delivered on time and within budget.** Deliverables must comply with current standards and sound practices and reflect current technology. An independent professional checks the deliverables and the originator corrects any errors. The lead roadway Quality Control reviewer, Cary Bourgeois, PE, has 36 years of supervising and performing design services on a variety of roadway and bridge projects for state and local entities.

GEC will comply with the requirements in the LADOTD Bridge Design Section Policy for QA/QC and will implement the policy, both internally and for our team members, for all bridge design activities for both design phase and during construction phase. All project submittals will include a QA/QC certification that ensures the submittals meet the requirements of the established QA/QC Plan Document.

We look forward to a continued working relationship with LADOTD on this project and appreciate the Selection Committee's review of our extensive qualifications.

19. Workload

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
G.E.C., Inc.	Planning	SP# 4400016958	Road Transfer Program Management, Statewide (Note: Unlikely to bill this entire amount)	1,670,166
G.E.C., Inc.	Planning	Contract #'s 4400006551, 4400006552 and 4400006553	Retainer Contracts for Comprehensive Strategic Advisory Related to Louisiana Transportation Authority (LTA) Participation In Public-Private Partnerships (PPP) (Sub to HNTB) (No Task Orders Issued)	N/A
G.E.C., Inc.		SP# H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	
	Road		Geometrics	70,810
	Bridge		Bridge Study	59,473
	Environmental		Environmental	19,863
	ITS		ITS	19,447
	Other		Program Management ($100,520), Electrical ($301,419)	401,939
	Geotechnical		Geotechnical (Task Closed)	51,213
G.E.C., Inc.		S.P.# H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	
	Bridge		Bridge	79,351
	ITS		ITS	137,981
	Other		Project Management ($326,749), Retaining Walls ($166,661), Sound Walls ($124,711) & Electrical ($1,253,493)	1,871,614
G.E.C., Inc.		S.P.# H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	
	Road		Road	317,310
	Bridge		Bridge	174,800
	ITS		ITS	28,665
	Other		Project Management ($66,668), Sound Walls ($44,640) & Electrical ($16,335)	127,463
G.E.C., Inc.	Bridge	SP# H.008145.5	Leeville to Golden Meadow, Route LA 1 Relocated, Const. Engineering Services (Sub to HNTB)	232,047
G.E.C., Inc.		SP# H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	
	Bridge		Bridge	148,795
	Other		Electrical	54,012

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
G.E.C., Inc.	Bridge	Contract # 4400010099	Retainer Contract for Off-System Complex Bridge Load Rating (Sub to Forte & Tablada)	
		TO# H.012485.1	Rating of Off-system Bridge Structures	19,056
		TO# H.092481.5	Off-System Load Testing and Evaluation	14,800
G.E.C., Inc.	ITS	Contract # 4400009327	Retainer for Intelligent Transportation Systems	
		TO# H.014512	Monroe Regional ITS Architecture Update (Note: Contract Expired. Remaining amounts will not be billed.)	44,245
		TO# H.012381.5-1	Fiber Optic Mapping and Management (Note: Contract Expired. Remaining amounts will not be billed.)	38,242
G.E.C., Inc.	Other	Contract # 4400011354	IDIQ Contract for Electrical Statewide	
	(Electrical)	TO# H.013442.6	I-10: Crowder Boulevard Interstate Lighting	47,379
		TO# H.013617.5	I-10: I-610E Interchange Lighting	37,742
		TO# H.014552.5	I-49: LA 31 Interchange Lighting (Opelousas) (Note: Survey T.O. Work performed by GOTECH.)	N/A
		TO# H.014553.5	I-49: LA 3233 Interchange Lighting (Opelousas) (Note: Survey T.O. Work performed by GOTECH.)	N/A
		TO# H.012469.5	US 190: BRB-Navigation Light Replacement	0
		TO# H.014556.5	I-49: US 190 Interchange Lighting (Opelousas) (Note: Survey T.O. Work performed by GOTECH.)	N/A
		TO# H.014557.5	I-49: Judge Walsh Drive Interchange Lighting (Opelousas) (Note: Survey T.O. Work performed by GOTECH.)	N/A
		TO# H.013617.6	I-10: I-610E Interchange Lighting	194,001
G.E.C., Inc.	Other (Electrical)	S.P. # H.004774.5 & H.007300.6	Kansas Lane - Garrett Road Connector and I-I-20 Improvements, Ouachita Parish (Sub to Lazenby & Associates, Inc.)	2,100
G.E.C., Inc.	Other (Electrical)	S.P. # H.010916.6	Prien Lake Re-Deck and Safety Improvements (Sub to Kiewit Infrastructure South, Co.)	3,028
G.E.C., Inc.	Other (Electrical)	Contract # 4400005660	Retainer Contract for Electrical Services (Sub to Buchart-Horn)	
		TO# H.012404.6	I-10 Off Ramps at LA 182	N/A
		TO# H.012422.6	I-110 Interchange Modification at Terrace	59
		TO# H.012874.6	I:55: LA 22 Interstate Lighting	20,153
G.E.C., Inc.	CE&I/OV	Contract # 440013710	Retainer Contract for CE&I, Statewide with the Majority of Work in District 03	

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
		TO# H.003014.6	I-10 Widening and Reconstruction (LA 37 to ATCR BR.) St. Martin and Lafayette Parishes	42,183
		TO# H.010601.6	I-10 Widening and Reconstruction (LA 328 - LA 347)	286,671
G.E.C., Inc.	CE&I/OV	Contract # 4400023074	IDIQ for CE&I Services and Staff Augmentation, District 61	
		TO# H.010724.6	Pecan Island Road Over the Chenal, Pointe Coupee Parish	96,968
		TO# H.012465.6	Dist 61 Flashing Yellow Arrow Part 3	444,962
G.E.C., Inc.	CE&I/OV	S.P. # H.011670.6	I-10/Loyola Interchange Improvements, Jefferson Parish	0
G.E.C., Inc.	CE&I/OV	Contract No. 4400019950	IDIQ for CE&I, Statewide, with Majority of Work in District 03	
		TO# H.002735.6	Bayou Vermillion Bridge	82,962
		TO# H.003003.6	I-10: I-49 - LA 328	228,133
		TO# H.002151.6	Bayou Parc Perdue and Creek Bridges	123,781
		TO# H.010601.6	I-10 Widening and Reconstruction (LA 328 - LA 347)	101,498
		TO# H.002868.6	I-49 S: Amb Caffery / US 90 Interchange	1,003,620
G.E.C., Inc.	CE&I/OV	Contract # 440005410	Retainer Contract for CE&I w/Painting Inspection & Environmental Monitoring, Statewide (Sub to GPI)	
		TO# H.009479.6	W. Larose Vertical Lift Bridge Rehab., Route LA 1	0
G.E.C., Inc.	CE&I/OV	Contract # 440014315	Retainer Contract for Painting Inspection & Environmental Monitoring with CE&I, Statewide (Sub to GPI)	
		TO# H.003370.6	1-220/1-20 Interchange IMP & BAFB Access	84,263
		TO# H.010000.6	US 1 71 : Calcasieu River Bridge Repairs	191,138
G.E.C., Inc.	CE&I/OV	Contract # 4400017329	Retainer Contracts for Innovative Procurement and Alternative Delivery Support Services (Sub to HNTB Corporation) (No Task Orders Issued)	N/A

* The 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. If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. Do not round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

19. Workload

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
La Terre Engineering	N/A	N/A	N/A	N/A

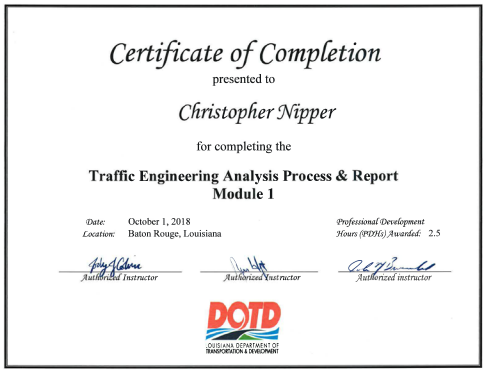
* The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining un-paid balance per evaluation discipline.

** Round to the nearest dollar. Do not round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

20. Certifications/Licenses

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

Christopher Nipper



Certificate of Completion

presented to

Christopher Nipper

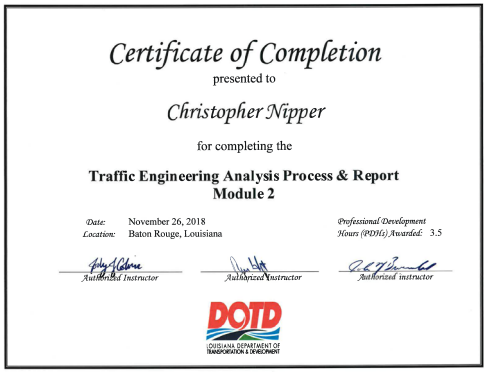
for completing the

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 Louisiana Department of Transportation & Development



Certificate of Completion

presented to

Christopher Nipper

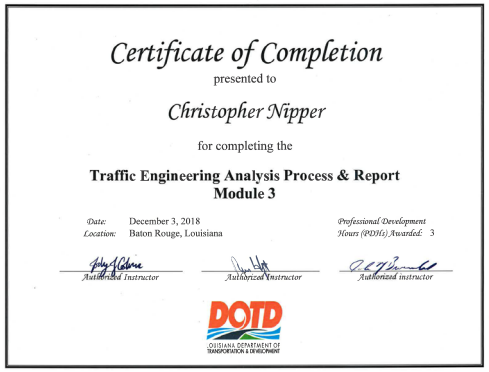
for completing the

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 Louisiana Department of Transportation & Development



Certificate of Completion

presented to

Christopher Nipper

for completing the

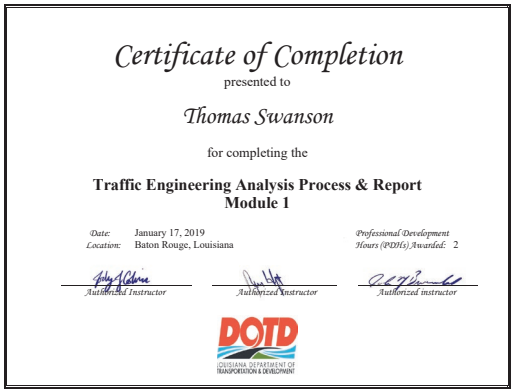
Traffic Engineering Analysis Process & Report
Module 3

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

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD Louisiana Department of Transportation & Development

Thomas Swanson



Certificate of Completion

presented to

Thomas Swanson

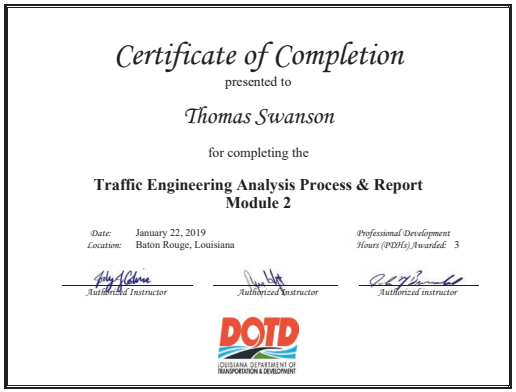
for completing the

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

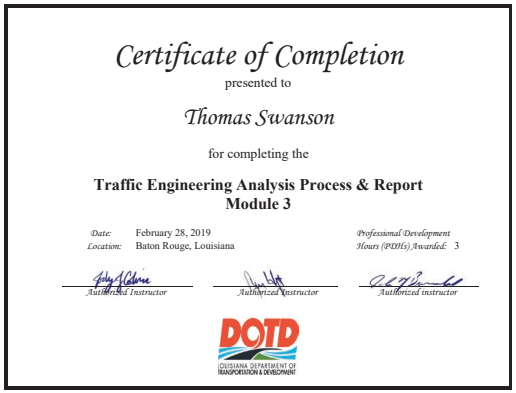
for completing the

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

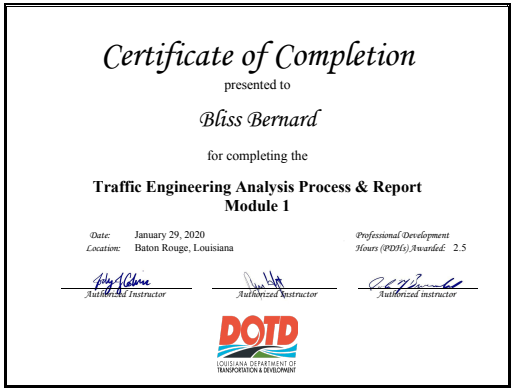
Traffic Engineering Analysis Process & Report
Module 3

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

Bliss Bernard



Certificate of Completion

presented to

Bliss Bernard

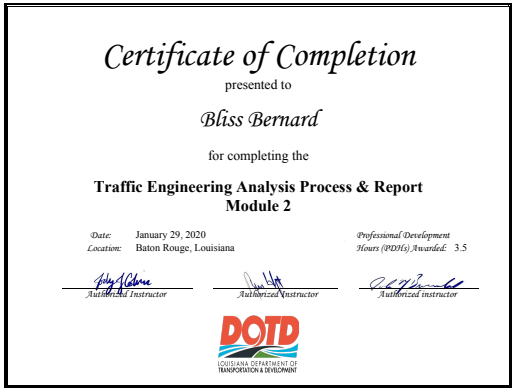
for completing the

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

Bliss Bernard

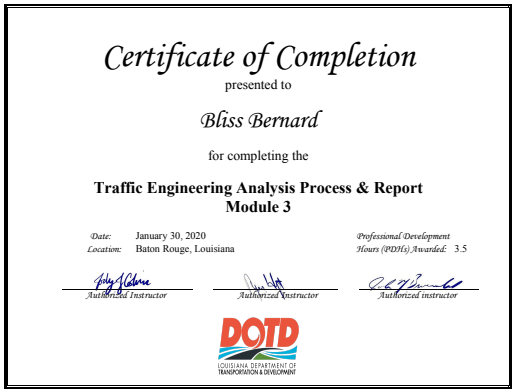
for completing the

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

Bliss Bernard

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

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

October 5, 2021

La Terre Engineering, LLC.
ATTN: Seneca Toussant
343 Third Street, Suite 511B
Baton Rouge, LA 70801

Dear Seneca Toussant:

We have received your firm's Disadvantaged Business Enterprise (**DBE**) and Small Business Element **(SBE)** annual affidavit. Based on the information which you provided we have concluded 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**:

NC541330-Engineering Services
NC541340-Drafting Services
NC541620- Environmental Consulting Services
C09- Civil Engineering
C10- Management
C11- Planning
C21- Construction Inspections
C22- Environmental Engineering
C43- Computer Assisted Drafting

Please note that per the federal regulations, suppliers only receive 60% goal credit towards the materials they provide. Also note that A Louisiana Contractor's License is required by any contractor performing work in excess of $50,000 with the exception of electrical, mechanical and plumbing 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. Your firm's certification will be recognized by all participants of the Louisiana Unified Certification Program. 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 **September 30, 2022**.

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

We reserve 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. We further reserve the right to request additional information and/or conduct an on-site visit at any time during your certification period.

If further assistance is needed, contact the DBE Certification Unit at (225) 379-1382.

Respectfully,

Rhonda Wallace

Rhonda Wallace
DBE/SBE Programs Manager

RTA DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

& under the State of Louisiana United Certification Program (LAUCP)

La Terre Engineering, LLC.

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

NC541330, NC541340, NC541620

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

Certificate Eligibility: September 2021 to September 2022

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Program Manager

Louisiana Department of Transportation & Development

Seneca Toussant

21. QA/QC Plan and/or Work Plan

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

The Scope of Services provided in Attachment A includes design of one (1) or more bridges and/or component parts thereof. Per advertisement instructions, GEC has included a bridge design QA/QC plan document specifically developed for this contract.

GEC BRIDGE DEPARTMENT

QUALITY ASSURANCE/QUALITY CONTROL

MANUAL

CONTRACT NO. 4400024641
CONTRACT FOR LA 447 CORRIDOR
STATE PROJECT NO. H.005734
F.A.P. NO. H005734
ROUTE: LA 447
LIVINGSTON PARISH

September 2017
Revised August 2019
Revised September 2020

Overview

Goals and Objectives

The Bridge Department of GEC has developed and implemented this Quality Assurance/Quality Control (QA/QC) guide in accordance with FHWA and LADOTD requirements. The QA/QC process applies to all types of bridge projects. In addition, the QA/QC process applies to the development of design guidelines, design examples, spreadsheets, and other design aides. Modifications to the QA/QC process and procedures may be required for large or complex structures.

The Quality Assurance/Quality Control (QA/QC) program establishes the following goals:

- Communicate openly to address concerns and solve problems immediately.
- Plan, coordinate, supervise, and provide technical direction.
- Employ skilled personnel who perform their work with care to produce a quality product.
- Produce quality work through review and checking by individuals not directly responsible for the initial work product.
- Take responsibility for the QA/QC of a project, regardless of role. This includes the review of all Sub-consultant work and deliverables.

The objectives of the QA/QC program are to produce bridge designs that are:

- **Designed and Detailed** in accordance with the policies and procedures defined in the current LADOTD BDEM, applicable technical memorandums, and in relevant guidelines on the LADOTD Website.
- **Clearly define** the sources of information for the calculations and the interface with related documents.
- described in **constructible plans**.

Bridge Design and QA/QC Process

As part of the QA/QC process, this document will serve as a template to follow for every bridge project. The process can be summarized as follows:

Step 1 – Selection of the Project Team
Step 2 – Development of Design Criteria
Step 3 – Design and Development of Details
Step 4 – Quality Control (QC) of Design and Details
Step 5 – Quality Assurance (QA) of Design and Details
Step 6 – Peer Review (if requested by the Bridge Design Engineer Administrator)
Step 7 – Sealing of Design Calculation Book and Plans by the EOR
Step 8 – QC/QA for Design Activities after Final Plans
Step 9 – Archiving Bridge Design Files

Step 1 – Selection of the Project Team

At the beginning of each project, a project team will be selected based on the complexity of the project. Team member responsibilities are as outlined below:

- Supervisor/Group Leader – A licensed professional engineer who manages a group of Engineers and Detailers. The supervisor/group leader must have substantial experience in the design of structures similar to the proposed project. The supervisor/group leader is responsible for assigning work to Engineers and Detailers based on their level of experience and the complexity of the project. In addition, a supervisor/group leader is responsible for internal Quality Assurance reviews.

- Design Engineer – A licensed professional engineer or engineering assistant working under the direct supervision of a licensed professional engineer. The Design Engineer provides the data, such as design sketches, necessary for detail drawing development. In addition, the Design Engineer checks the details for errors, completeness, conformity, and consistency.

- Checker – A licensed professional engineer or engineering intern working under the direct supervision of a licensed professional engineer. The Checker thoroughly reviews the calculations or detail drawings for the purpose of reducing errors and omissions and increasing completeness, applicability, and conformance.

- Detailer – A drafter or engineer who generates and revises details, plan sheets, and drawings in electronic format.

- Engineer-of-Record – A licensed professional engineer who is responsible for supervision and/or preparation of plans, sealing calculations, signing and sealing the final plan set, and special provisions if required. This may be the Design Engineer or Supervisor. The Engineer-of-Record must have substantial experience in the design of structures similar to the proposed project.

Step 2 – Development of Design Criteria

Design criteria must be established at the beginning of each project and submitted to the LADOTD for review and approval before the design process is initiated. The design criteria shall be updated as appropriate throughout the project. A current listing of design criteria shall be maintained at all times. The design criteria shall be included in the final calculation book. All design assumptions and any design exemptions that are granted are to be included in the design criteria. The design criteria shall include at least the following sections with the minimum information indicated in each section.

Design Criteria Checklist

- Cover Sheet
  - LADOTD project number
  - Project name
  - Revision date
  - The Supervisor or Team Leader's signature and date
- Governing Design and Construction Specifications and Other References
  - A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.
- Design Assumptions and Design Exceptions
  - All design assumptions and design exceptions received must be included in this section along with supporting documents
- Hydraulic Design Criteria – provided by the Hydraulic Engineer
  - Design year
  - Design water elevations
  - Scour depth
  - Scour elevation
- Design Loads
  - Dead loads
  - Live loads
  - Wind loads
  - Thermal loads
  - Vessel collision loads
  - Seismic loads
  - Wave loads
  - Other applicable loads
- Limit States
  - All applicable limit states shall be listed in this section.

- General Information
  - Bridge information (number of bridges, bridge clear width, length, number of lanes, lane width, shoulder width, etc.)
  - Road information (roadway classifications, design speed, traffic data, etc.)
  - Vertical datum
  - Vertical and horizontal clearances
  - Other relevant information
- Approach Slab
  - Design criteria
  - List standard plans and special details utilized.
- Bearings
  - Type(s)
  - Design criteria
  - List standard plans and special details utilized.
- Superstructure
  - Type(s)
  - Design criteria
  - List standard plans and special details utilized.
- Piles and Drilled Shafts
  - Type(s)
  - Design criteria
  - List standard plans and special details utilized.
- Mechanical Design
  - Design criteria
  - List standard plans and special details utilized.
- As-Designed Bridge Rating Criteria
  - Rating criteria
- Software
  - List all software used for design and checking.
- Design Factors
  - Ductility factor η_D
  - Redundancy factor η_R
  - Operational importance factor η_I
- Bridge Barrier
  - Type(s)
  - Design criteria/test levels
  - List standard plans and special details utilized.
- Guardrail
  - Type(s)
  - Design criteria/test levels
  - List standard plans and special details utilized.
- Deck and Deck Drainage
  - Design criteria
  - List standard plans and special details utilized.
- Joints
  - Type(s)
  - Design criteria
  - List standard plans and special details utilized.
- Substructure
  - Type(s)
  - Design criteria
  - List standard plans and special details utilized.
- Geotechnical Design – to be provided by the Geotechnical Engineer
  - Design criteria
  - List standard plans and special details utilized.
- Electrical/Lighting Design
  - Design criteria
  - List standard plans and special details utilized

Step 3 – Bridge Design and Development of Details

Bridge Design

The Design Engineer is responsible for the development of the design calculations, details, cost estimate, and any special provisions that may be required. Prior to beginning the design process, confirm that the bridge type, size, location, and design criteria have been established and approved by the Supervisor/Team Leader.

The design calculations are to be organized and maintained by the Design Engineer in a Calculation Book that includes, but is not limited to, the following sections.

Cover Sheet – include the following information:

- LADOTD project number
- Project name
- The title of “Final Calculation Book”
- The EOR’s seal with signature and date

Design Criteria

Superstructure Design Calculations

Substructure Design Calculations

Quantity Calculations

QC/QA Certification
- Refer to Appendix A

Final Hydraulic Analysis Report from Hydraulic Engineer

Final Geotechnical Analysis Report from Geotechnical Engineer

Special Provisions/NS-Items

Construction Cost Estimate

As-Designed Rating Report

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

The Final Calculation Book is to be submitted to the LADOTD Bridge Task Manager. Consult with the Bridge Task Manager to determine if submittal shall be on a CD, a Flash Drive, or placed to a designated ProjectWise folder. Include the following:

A PDF File of the Calculation Book
All Electronic Design Files
A PDF File of the As-Designed Rating Report

Development of Details

The Design Engineer must work together with the Detailer on the establishment of the bridge details and supervise the detailing work to verify that the details represent the bridge type, size, location, and design criteria that have been established.

Submittals of bridge details are to follow current LADOTD requirements. Typical submittals and their order are as follows:

1. Design Criteria
2. Bridge Type, Size, and Location (TS&L)
3. 30% Preliminary Plans
4. 60% Preliminary Plans
5. 90% Preliminary Plans
6. 100% Preliminary Plans
7. 30% Final Plans
8. 60% Final Plans
9. 90% Final Plans
10. 100% Final Plans
11. Final Calculation Book
12. Plan Revisions (if required)
13. Change Orders (if required)

Use the template on the following page as an outline for sheet order and plan development for each submittal to the LADOTD.

Table 1. Typical Submittals and Associated Design and Detail Progress.

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

Legend:
"R" – The item is required and shall be included in the submittal.
"D" – The item shall be in development and included in the submittal.
"C" – The item shall be complete and included in the submittal.
"S" – The item is stamped by the EOR and shall be included in the submittal.

Step 4 – Quality Control (QC) of Design and Details

Quality Control is the process of checking the accuracy of calculations and consistency of the drawings, detecting and correcting design omissions and errors prior to finalizing design plans and specifications.

At the beginning of each project, design engineers and calculation checkers are to be assigned to the design of each component. Likewise, detailers will be assigned to the detailing and checking of each component to be detailed.

The Engineer-of-Record will sign and seal all final details and modified standards.

Quality Control of Calculations

This process applies to calculations, reports, studies, design spreadsheets and any other documents that are not details, plan sheets, or drawings. The required process and the responsibilities of each team member when confirming that calculations are prepared and checked, are as provided in the following section and as summarized in the Quality Control of Calculations flow chart shown in Figure 1.

Preparation (Design Engineer)

- Prepare relevant, appropriate calculations and sketches containing all information (input, basis, comments, references and sketches) necessary to convey the purpose and nature of the calculations. Calculations are standalone, to the extent reasonably possible.
- Present the calculations and sketches in a neat and logical manner that is conducive to checking.
- Conform the calculations and design sketches to be in accordance with the policies and procedures defined in the current LADOTD BDEM and all relevant Technical Memorandums. Review the LADOTD Website frequently to access additional directives and modifications to the information provided in the current LADOTD BDEM.
- Perform all calculations on G E C calculation sheets, or spreadsheet equivalents (i.e. personal spreadsheets or design spreadsheets), or with LADOTD approved software. See LADOTD Bridge Design Section website for a list of pre-approved software.

Checking (Checker)

- Check each component to ensure compliance with the policies and procedures defined in the current LADOTD BDEM and relevant Technical Memorandums and the LADOTD Website.
- Check the calculations for internal consistency and traceability of sources. Thoroughly check the calculations, including assumptions, given values, formulas, omissions, and accuracy of arithmetic.
- Check methodology, reasonableness of results, and constructability. If necessary, ask for clarification from the Design Engineer, request additional calculations, and if unsure of any particular element, seek technical advice.
- Check the calculations by the method shown in the Quality Control of Calculations flowchart provided in Figure 4.1. Alternatively, check the calculations by providing independent calculations. Keep the alternate, independent calculation with the original. Indicate on the original that an alternate calculation was used for checking.
- When an error in computer input, assumptions, or load calculations is found, consider what that error will do to the outcome before redesigning the member. If the error has a negligible impact to the final design, it may not be necessary to redo the calculation. For instance, it may be unnecessary to re-run a program for a 0.1 k difference in load or a 1-foot station difference in geometry.

- When an error is found that will have impact on the remainder of the calculations, return the calculations to the Design Engineer for correction prior to completing checking of the calculations. The Designers calculations are the calculations of record and must be updated.

Correcting (Design Engineer)

- Revise the calculations and sketches based on the mark-ups. If not in agreement with a mark-up, discuss it with the Checker. Come to an agreement on whether to incorporate the mark-up. If unable to come to a resolution, consult the supervisor/group leader.

Verifying (Checker)

- Back check the revised calculations and sketches against the mark-ups to confirm all corrections have been incorporated or otherwise addressed.

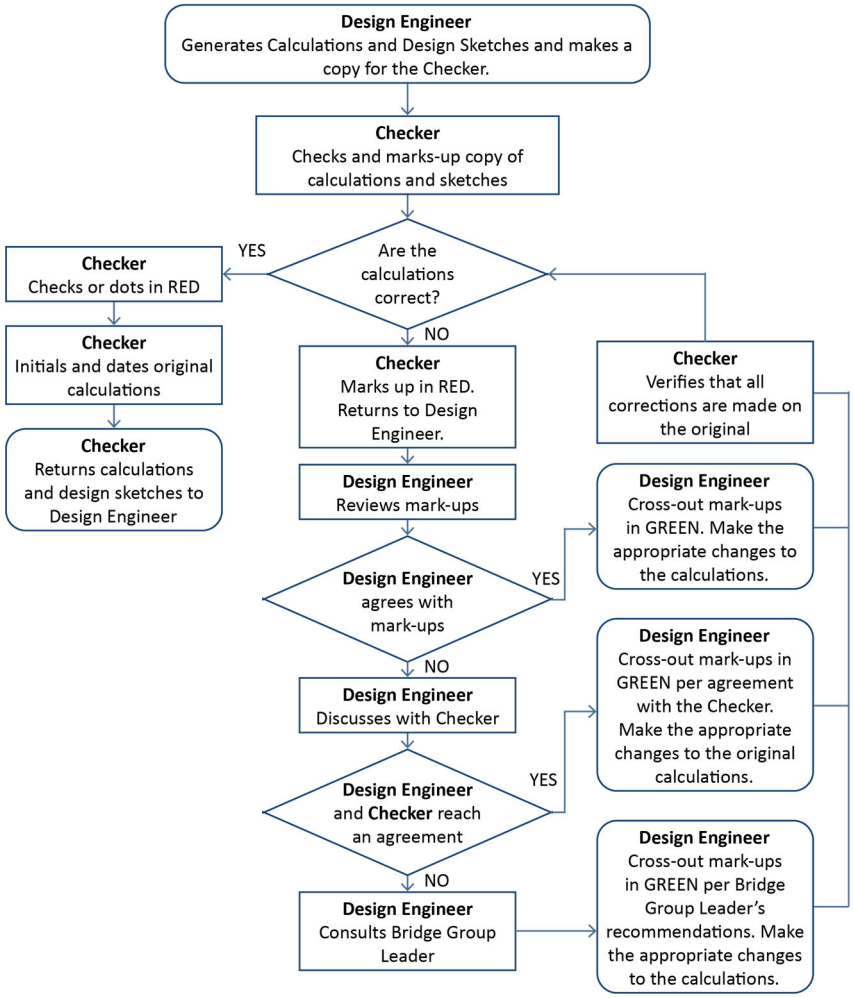


Figure 1. QC for Calculations Flowchart

Quality Control of Details

This process applies to details, plan sheets, and drawings. The Quality Control of Details flow chart included as Figure 2 provides the process for the checking of the drawings.

Preparation (Detailer)

- Develop all details in accordance with the current LADOTD BDEM and applicable LADOTD policies and practices.

Checking (Design Engineer or Checker)

- Check the details for completeness of the plan set for design intent, technical adequacy and conformity to applicable standards, and for consistency with the corresponding calculations.
- Check individual drawings using appropriate guidelines from the current LADOTD BDEM for errors, completeness, conformance, and consistency.

Correcting (Detailer)

- Revise the details based on the mark-ups. If not in agreement with a mark-up, discuss it with the Checker. Come to an agreement on whether to incorporate the mark-up. If unable to come to a resolution, consult the supervisor/group leader. Mark any additional revisions on the originals.

Verifying (Design Engineer or Checker)

- Back check the revised details against the mark ups to confirm all corrections have been incorporated or otherwise addressed.

Addendum and Change Orders

It is sometimes necessary to submit revised plan sheets to address a change order or an addendum. For change orders and addendum, follow the current LADOTD policy and procedures. Remember to update all relevant calculations and details.

Completion

Upon completion of the design and detail check, the Designer shall prepare a QA Information Package that includes:

- Calculation Book
- Plans
- Special Provisions including Non-Standard Items
- Cost Estimate
- Other Relevant Documents

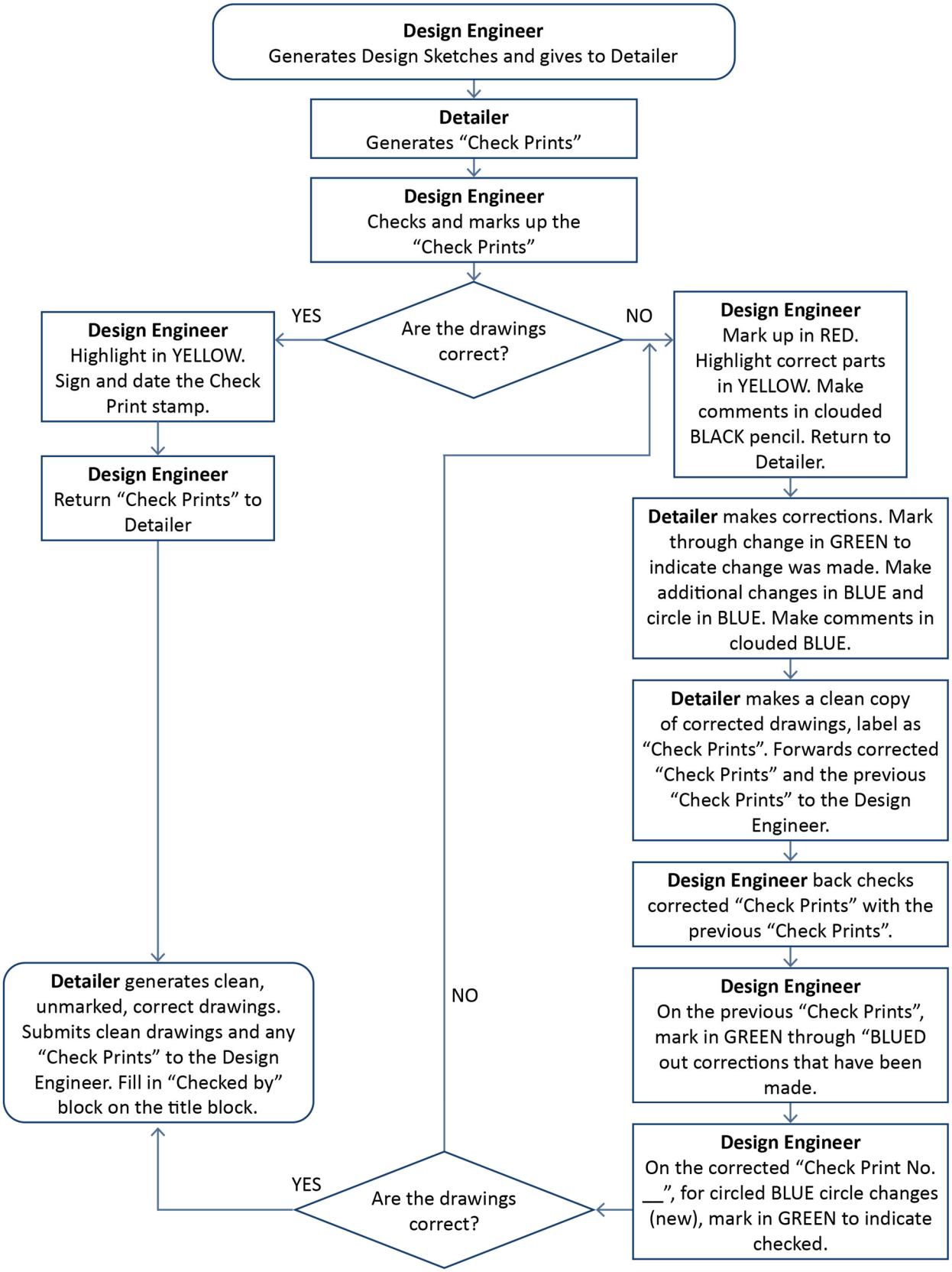


Figure 2. QC for Details Flowchart

Step 5 – Quality Assurance (QA) of Design and Details

Quality Assurance is the process of reviewing the quality control process for use and effectiveness at preventing mistakes and ensuring compliance. The Quality Assurance process varies depending on the stage of plan development and who develops the plans. The Quality Control Plan is to be maintained such that it can be submitted to the LADOTD if requested.

During Plan Development

The Supervisor/Group Leader is responsible for Quality Assurance. The Supervisor/Group leader determines the level and complexity of the Quality Control process, assigns the Design Engineer, Checker, and Detailer. The Supervisor/Group Leader confirms the Quality Control process by reviewing that the details identify the correct Design Engineer, Checker, and Detailer. In addition, the Supervisor/Group Leader completes a review of the details for constructability, applicability, completeness, and conformity.

Upon completeness of the QA process (no later than the 95% final plans stage) the design calculations, details, special provisions, and cost estimate are considered final and the QC/QA Certificate included in Appendix A is to be signed by members of the project team.

During Construction

During construction, LADOTD engineers assume the role of Engineer-of-Record and complete field-engineering reviews. If a complex problem occurs, the LADOTD may contact the original Engineer-of-Record, who will determine a solution and if necessary, provide calculations and revised details.

Step 6 – Peer Review (if required)

Typically, a peer review will not be required. For more complex projects, however, the LADOTD Bridge Design Engineer Administrator may request a peer review. The peer review process is to be in accordance with the requirements specific to the project. At the conclusion of the review, a Peer Review Resolution Agreement may be required. See BDEM for current Peer Review Resolution Agreement form.

Step 7 – Sealing of the Calculation Book and Plans by EOR

Near the completion of the project, it is the responsibility of the Engineer of Record (EOR) that all calculations, details, QC/QA requirements, and all other department requirements are substantially complete. At this stage, the following items are to be verified.

- Confirm that the QC/QA certification has been signed by all responsible parties.
- Confirm that the Geotechnical Engineer has co-stamped the geotechnical design information shown on the bridge plans.
- Confirm that the Hydraulic Engineer has co-stamped the hydraulic information shown on the bridge plans.
- Assemble final Geotechnical Report and Hydraulic Report.
- Finalize calculation book and seal the cover sheet.
- Verify that the names of the designer, design checker, detailer, detail checker, and reviewer are all correctly shown on the title block of each plan sheet.

- Stamp the General Notes sheet. EOR may sign the remaining sheets or designate qualified Professional Engineers to stamp the sheets developed under their supervision.
- Verify that all special provisions are accurately shown on the construction proposal. The special provisions are typically stamped by the Specification Engineer as part of the construction proposal; however, if the Specification Engineer is not qualified or not willing to stamp the special provisions, the EOR must stamp these provisions.

Step 8 – QC/QA for Design Activities after Final Plans

The previously established QC/QA process and procedures are to be utilized for all plan revisions, change orders and addenda.

Step 9 – Archiving Bridge Design Files

The EOR is responsible for archiving all bridge design files including calculation books, plans, special provisions, cost estimate, and other pertinent documents in accordance with the LADOTD records retention policy. It is also the responsibility of the EOR to deliver all bridge design files to the LADOTD Bridge Task Manger no later than 30 calendar days after the stamped final plans are delivered. Any revisions made to these documents due to plan revisions and change orders must be delivered with the signed plan revisions or change order sheets.

Notebook/File

The Design Engineer keeps a binder or folder clearly labeled with the Structure Name, Parish (or County), and State Project Number that contains, but is not limited to the following:

- Request for Qualifications – Keep a record of the original advertisement, addendums, Q&A, and the shortlist and award as determined by the Project Evaluation Team.
- Correspondence – Correspondence includes emails, memos, or other documents that affect the design of the structure or clarify design requirements.
- Calculations – Calculations generated and reviewed in accordance with the Quality Control Program. Calculations include hand-written documents, spreadsheets, and output from software. Convert the calculations to PDF for archive purposes.
- Details – Check Prints and Final Plan Sets generated and reviewed in accordance with the Quality Control Program.
- Any other documents required for design, such as existing plan sheets and review comments.

The Design Engineer documents any changes that occur after the Plan Review, such as Addendum, and post-letting, such as Change Orders and RFIs by including correspondence, calculations, check prints, and details that relate to the change or request in the electronic Notebook/File for the project.

Appendix A
QC/QA Certification

Number:

Name:

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

Team Members	Name	P.E. Reg. #	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotechnical Engineer						
Hydraulic Engineer						
Engineer-of-Record (EOR)						

22. Sub-consultant Information

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
La Terre Engineering, LLC	343 Third Street, Suite 511B, Baton Rouge, LA 70801	Seneca Toussant, PE stoussant@laterre-eng.com	(225) 960-1160

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.

WWW.GECINC.COM