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 I-20: Widening/Ovrly (Vancil Rd – LA 34)
2. Contract number(s) as shown in the advertisement	Contract No. 4400024307
3. State Project Number(s), if shown in the advertisement	H.015052
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	Lazenby & Associates, 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)	LAPELS Registration No. 416 Engineering LAPELS Registration No. 68 Land Surveying DUNS No. 062921036
6. Prime consultant mailing address	2000 North 7th Street, West Monroe, LA 71291
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	2000 North 7th Street, West Monroe, LA 71291
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Paul D. Fryer, P.E., P.L.S., Senior Vice President (318) 387-2710 pfryer@lazenbyengr.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Jerry G. Lazenby, P.E., P.L.S., President (318) 387-2710 jlazenby@lazenbyengr.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): Jerry G Lazenby Date: June 16, 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): Vectura Consulting Services, LLC Firm(s)' %: 5%

12. Past Performance Evaluation Discipline Table:

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for **each past performance evaluation discipline**, as well as the overall total percent of the contract.

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. The crosswalk from the old categories to the new categories can be found at the link below:
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New%20Evaluation%20Disciplines.pdf. (same link as in the advertisement)

Evaluation Discipline(s)	% of Overall Contract	Prime Lazenby & Associates, Inc.	Firm B Huval & Associates, Inc.	Firm C Neel-Schaffer, Inc.	Firm D Ventura Consulting Services, Inc.	Firm E Acardis, U.S., Inc.	Firm F GEC, Inc.	Each Discipline must total 100%
Road	30%	100%						100%
Bridge	10%		100%					100%
Traffic	25%			80%	20%			100%
Environmental/Planning	20%					100%		100%
Other (Lighting)	15%						100%	100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.								
Percent of Contract	100%	30%	10%	20%	5%	20%	15%	

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Lazenby & Associates, Inc.	CADD Drafter	1	3
	CADD Operator	1	2
	Clerical	0	3
	Engineer	3	6
	Engineer Intern	1	1
	Survey Instrumentman	0	2
	Survey Party Chief	0	2
	Principal	1	1
	Survey Rodman	0	3
	Supervisor Engineer	1	3
	Surveyor	0	1
	Inspector Certified	0	2
	Inspector	0	1
	Sub-Total	**7**	**30**
HUVAL & ASSOCIATES, INC. Consulting Engineers	Principal	0	1
	Supervisor Engineer	1	5
	Engineer	3	12
	Engineer Intern	0	6
	Technician	0	2
	CADD Technician	1	3
	CADD Drafter	1	3

Huval & Associates, Inc.	Inspector-Certified	0	6
	Sub-Total	**6**	**38**
NEEL-SCHAFFER Solutions you can build upon Neel-Schaffer, Inc.	Engineer	8	8
	Engineer Intern	1	1
	Supervisor – Eng.	2	2
	Sub-Total	**11**	**11**
VECTURA CONSULTING SERVICES, LLC Vectura Consulting Services, LLC	Supervisor	2	2
	Engineer	3	5
	Sub-Total	**5**	**7**
ARCADIS Arcadis, U.S., Inc.	Principal	2	4
	Supervisor Engineer	4	8
	Supervisor Engineer-Other	2	3
	Engineer	3	9
	Engineer-Other	1	1
	Engineering Aide	1	2
	Planner	2	4
	Environmental Professional	3	3
	GIS Analyst	2	3
	Professional	2	2
	Engineer Intern	2	2
	Sub-Total	**24**	**41**
GEC G.E.C., Inc.	Engineer	2	3
	ITS Technician	1	1
	Technician	2	3
	Engineer Intern	1	1
	Sub-Total	**6**	**8**
	Total	**59**	**135**

14. **Organizational Chart:**

Contract No. 4400024307
I-20: Widening/Overly (Vancil Rd – LA 34)
S.P.N. H.015052
Route: I-20
Ouachita Parish

DOTD Project Manager

LAZENBY & ASSOCIATES, INC.

Principal & Project Supervisor
^@ Jerry G. Lazenby, P.E., P.L.S.

Project Manager
^@ Paul D. Fryer, P.E., P.L.S

QA/QC
^@ Jerry G. Lazenby, P.E., P.L.S.
^@ Paul D. Fryer, P.E., P.L.S.

ENVIRONMENTAL/PLANNING
Arcadis
- Greg Badon
- @ Jason Morrel, P.W.S.
- Jayon Thibodeaux
- Michael Blatt, M.B.A.
- Sara Moore
- ^ Thomas Montz, P.E., P.T.O.E., P.T.P.
- ^ Ari Deitch, P.E., P.T.O.E., P.T.P., R.S.P.
- ^ Kester Hollier, P.E., P.T.O.E.
- ^ Jose L. Rodriguez, P.E.
- Gabriel Arias, P.E.

TRAFFIC ENGINEERING
Neel-Shaffer
Vectura Consulting Services, LLC
- @* Nick Ferlito, P.E., P.T.O.E.
- * Kirk Gallien, P.E., P.T.O.E.
- ^ Charles Adams, P.E., P.T.O.E.
- @* Ellen Howard, P.E., P.T.O.E.
- @* Jonathan Duhe, P.E., P.T.O.E.
- * Seth Popay, E.I.
- * Vijay Kunada , P.E., P.T.O.E., P.T.P.
- Chuck LeBouef, P.E.
- * Santosh Andem, P.E., P.T.O.E.
- Hussein Skaikay, P.E., R.S.P.1
- William Fulcher, P.E., P.T.O.E., P.T.P., R.S.P.1.
- ^@* Sheelagh Brin Ferlito, P.E., P.T.O.E.
- ^* Laurence Lucius Lambert, II, P.E., P.T.O.E., P.T.P.
- ^* Prasanth Malisetty, P.E., P.T.O.E., P.T.P., R.S.P.1.
- ^* Reece Rodrigue, P.E., P.T.O.E.
- ^* Kristen Gahagan Farrington, P.E., P.T.O.E.

LIGHTING
GEC
- @ Mickey Prattini, Jr., P.E.
- @ Tom Coerver, Jr., P.E.
- Luis Diaz, E.I.
- Nicholas Montegut
- Max Churchman
- ^ George "Bowman" Guttner

****SURVEY**
Lazenby & Associates, Inc.
- ^ Ronald J. Riggin, P.E., P.L.S.
- ^ Randy C. Hammons, P.E.
- ^ James S. Ellingburg, P.E.
- Noah Sampognaro, E.I.

ROAD DESIGN
Lazenby & Associates, Inc.
- ^@* James R. Spillers, P.E.
- ^ Hagan Lawrence, P.E.
- ^ James S. Ellingburg, P.E.
- Noah Sampognaro, E.I.

STRUCTURAL DESIGN
HUVAL & Associates, Inc.
- ^ Colby J. Guidry, P.E.
- ^@ Justin Peltier, P.E.
- Reid Romero, P.E.
- Matt Hebert, P.E.

LEGEND
- Lazenby & Associates, Inc.
- Arcadis
- Neel-Shaffer
- Huval & Associates, Inc.
- Vectura Consulting Services, LLC
- GEC

^ Completed work zone training requirements.
@ Meets MPR
* Completed traffic engineering analysis process and report training through LTRC.
** To be performed under supplemental agreement, if required.

15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Jerry G. Lazenby, P.E., P.L.S.	Lazenby & Associates, Inc	P.E. License No. 12104	LA	03/31/2024
2	Paul D. Fryer, P.E., P.L.S.	Lazenby & Associates, Inc	P.E. License No. 23426	LA	09/30/2023
3	James Ryan Spillers, P.E.	Lazenby & Associates, Inc	P.E. License No. 28574	LA	09/30/2023
3	Paul D. Fryer, P.E., P.L.S.	Lazenby & Associates, Inc	P.E. License No. 23426	LA	09/30/2023
4	Justin Peltier, P.E.	Huval & Associates, Inc.	P.E. License No. 34765	LA	09/30/2023
5	Mickey Prattini, Jr., P.E.	G.E.C., Inc.	P.E. License No. 35993	LA	03/31/2023
5	Tom Coerver, Jr., P.E.	G.E.C., Inc	P.E. License No. 30722	LA	09/30/2023
6	Nick Ferlito, P.E., P.T.O.E.	Neel-Shaffer Inc.	P.E. License No. 0028001	LA	09/30/2023
6	Ellen Howard, P.E., P.T.O.E.	Neel-Shaffer Inc.	P.E. License No. 0038207	LA	03/31/2024
6	Jonathan Duhe, P.E., P.T.O.E., R.S.P.1	Neel-Shaffer Inc.	P.E. License No. 0041047	LA	03/31/2023
6	Sheelagh Brin Ferlito, P.E., P.T.O.E.	Vectura Consulting Services, Inc.	P.E. License No. 25383	LA	09/30/2023
7	Jason Morrell, P.W.S.	Arcadis, U.S., Inc.	P.W.S License No. 2319	LA	04/01/2023

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

See attached sheets for Résumés.

Firm employed by Lazenby & Associates, Inc.					
Name	**Hammons, Randy C., P.E.**			Years of experience with this firm/employer	21
Title				Years of experience with other firm(s)/employer(s)	8
Degree(s) / Years / Specialization			B.S. / 1993 / Civil Engineering		
Active registration number / state / expiration date			P.E. 0029504 / Louisiana / 09/30/2023		
Year registered	2001	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Topographic Survey		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
	Mr. Hammons has in excess of 25 years of experience in planning and designing highways and bridges on transportation projects in Arkansas, Mississippi, Tennessee and Louisiana. Mr. Hammons has approximately 15 years of experience supervising and processing topographic survey data, including creating digital terrain models (DTM's) and developing existing drainage maps, for LDOTD projects. Mr. Hammons has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher)
10/14 – 06/17	Project Engineer processing topographic survey field data and development of topographic survey maps and images for State Contract No. 4400004541: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained eight task orders to perform topographic surveys for various projects at a cost of $811,513 over a 3-year period. Some of the task orders for Topographic Surveys were as follows: State Project No. H.002059.5 – LA 384 @ LA 385 Intersection Improvements in Calcasieu Parish. (12/08/2014 – 02/06/2015). Topographic survey using GPS receivers and robotic total stations. State Project No. H.004774.5 – Kansas Lane – Garrett Road Connector & I-20 Interchange Improvements, in Ouachita Parish. (06/18/2015 – 06/17/2016). Topographic survey using GPS receivers and robotic total stations. State Project No. H.012316 – I-20 Pedestrian Overpass Replacement Project on Route I-20 in Caddo Parish (07/11/2016 – 11/30/2016). Topographic survey of a damaged pedestrian overpass using GPS receivers, robotic total stations, and a TX-8 terrestrial scanner. State Project No. H.001270.5 – LA I-X: Natchitoches By-Pass on Keyser Avenue and the Cane River in Natchitoches Parish. (04/03/2017 – 07/30/2017). Topographic Survey of road and bridge replacement project using GPS receivers, robotic total stations and a TX-8 terrestrial scanner. State Project No. H.009997.5 – US 167: Johnston Street Improvements on Route US 167 in Lafayette Parish. (04/12/2017 – 09/29/2017). Topographic survey of a heavily traveled urban system route in Lafayette, Louisiana using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
01/10/2017 – 01/10/2020	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400009384: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained six task orders to perform topographic surveys for various projects at a cost of $989,478 over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows: State Project No. H.003370.5 – I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/16/2018). Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, and a SX-10 terrestrial scanner.

	State Project No. H.007300.5 & H004774.5 – Kansas Lane – Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/16/2018) Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. State Project No. H.012036.5 – US 80: Boeuf River Bridge in Richland Parish (03/19/2019). Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
10/20 – 06/22	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained fifteen task orders to perform topographic surveys for various projects at a cost of $1,647,265 over a 5-year time frame. Some of the task orders for Topographic Surveys were as follows: State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021). Topographic survey of the BNSF RR and several local urban routes and crossings in the town of Baldwin, Louisiana using GPS receivers and robotic total stations. State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021). Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. State Project No. H.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021). Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021). Topographic survey of a proposed roundabout site located at the intersection of LA 406 and Keating Dr and F.E. Hebert Blvd using GPS receivers and robotic total stations. State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021). Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. State Project No. H.012541.5 – LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022). Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022). Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 7,130 LF of I-20 mainline.

Firm employed by Lazenby & Associates, Inc.					
Name	**Ellingburg, James S. P.E.**			Years of experience with this firm/employer	14
Title	Project Engineer			Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering		
Active registration number / state / expiration date			P.E. 0037236 / Louisiana / 09/30/2022		
Year registered	2012	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Road Design, Hydraulic Analysis & Design, Topographic Survey		

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. Ellingburg has over 14 years of experience in developing roadway plans on both LDOTD and local roadway projects. Mr. Ellingburg is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Ellingburg has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. Mr. Ellingburg has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher) Designing Streets for Pedestrians and Bicyclists Workshop, 2016 Highway Safety Manual Workshop, 2016 Roundabout Design Workshop, 2013 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022
08/08 – 05/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Ellingburg served as a project staff engineer, assisting the project engineer with development of existing drainage maps, drainage design maps, utility adjustments, and developing roadway plans. Mr. Ellingburg also assisted with roundabout designs, and sequence of construction in both Preliminary and Final plan development. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts that required extensive geometric design and graphical grade development in order to meet AASHTO and LDOTD standards and requirements for safety.
12/10 – 10/12	State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish. Mr. Ellingburg served as a project staff engineer, working on development of existing drainage maps, design drainage maps, roadway drainage plans, and assisting with roadway and bridge design and plan development for both Preliminary and Final plans. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2 mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on the project.
11/11 – 01/12	State Project No. H.004684: El Camino East/West Corridor, Route LA 6, Natchitoches Parish. Mr. Ellingburg served as a project staff engineer, developing existing drainage maps for a DOTD Topographic Survey.
09/16 – Present	State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Ellingburg served as a project staff engineer, developing existing drainage maps for the topographic survey portion of the project. During the design and plan preparation portion of the project, Mr. Ellingburg has performed drainage design, developed design drainage maps, and assisted with design of five multi-lane roundabouts, developing graphical grades and assisting with geometric design. This urban project includes five multilane roundabouts

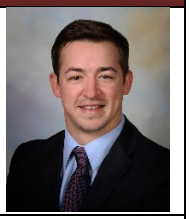
	and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety. The final plans are currently 98% complete.
01/17 – Present	Ouachita Parish Police Jury Road Program. Mr. Ellingburg is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of evaluating parish roadways and developing pavement preservation construction plans, including hydraulic design of cross drain structures, to preserve and extend the life of Ouachita Parish roadways, some of which are design and constructed under the DOTD Urban Systems program. Mr. Ellingburg has also served as project engineer during construction, ensuring that the projects are built in accordance with the plans and specifications. Some of the Ouachita Parish Urban System projects that Mr. Ellingburg has provided professional services on include the following: State Project No. H.011743 – 40 Oaks Farm Road (Mill, Patch and Overlay) State Project No. H.011742 – Ole Hwy 15 (Reconstruction) State Project No. H.011783 – Parker Road (Mill, Patch and Overlay) State Project No. H.011747 – Edwards Road (Reconstruction) State Project No. H.013804 – Wall Williams Road (Mill, Patch and Overlay and includes a segment of Reconstruction) State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction)

Firm employed by Lazenby & Associates, Inc.					
Name	**Fryer, Paul D. P.E., P.L.S.**		Years of experience with this firm/employer	36	
Title	Senior Vice-President		Years of experience with other firm(s)/employer(s)	2	
Degree(s) / Years / Specialization			B.S. / 1984 / Civil Engineering		
Active registration number / state / expiration date			P.L.S. 0004806/ Louisiana / 09/30/2023 P.E. 0023426 / Louisiana / 09/30/2023		
Year registered	1987 1997	Discipline	Professional Engineer (Civil and Environmental) Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			Project Management, Road Design, and QA-QC		

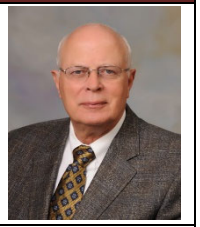
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Fryer has over 36 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. Mr. Fryer is familiar with LDOTD and AASHTO design standards for roadway design and plans development. Mr. Fryer has performed professional engineering and land surveying services on a variety of projects involving line and grade studies, major investment studies, location and Stage "0" studies as well as topographic surveys, property surveys, development of ROW maps. Mr. Fryer also has extensive experience in developing preliminary and final roadway plans on a variety of LDOTD projects. Mr. Fryer is familiar with the LDOTD Location and Survey Manual for conducting topographic surveys, property surveys and developing right-of-way maps. He is also familiar with the design requirements of LDOTD and has extensive experience in the development of preliminary and final roadway plans. Mr. Fryer has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher) National Environmental Policy Act (NEPA) and Transportation Decision Making On this project Mr. Fryer meets the MPR Requirement Nos. 2 and 3.
01/96 – 09/96	State Project No. 038-03-0022: US 425 (Bastrop – Log Cabin), Morehouse Parish. Mr. Fryer prepared preliminary roadway and bridge plans for expanded line and grade study. This project involved widening a 3.2-mile segment of US 425 to four lanes.
04/96 – 12/96	State Project No. 038-03-0024: US 425 (Log Cabin – Junction LA 142), Morehouse Parish. Mr. Fryer prepared preliminary roadway and bridge plans for expanded line and grade study. This project involved widening a 5.2-mile segment of US 425 to four lanes.
04/95 – 03/00	State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish. Mr. Fryer prepared preliminary and final roadway plans. This project consisted of the construction of two voided slab span bridges (main bridge and relief structure) and roadway approaches on new alignment.
11/95 – 06/00	State Project No. 172-01-0011: Bayou DeGlaise Bridge, Morehouse Parish. Mr. Fryer prepared preliminary and final roadway and final roadway plans. This project consisted of the construction of a slab span bridge and roadway approaches on new alignment.
01/97 – 10/99	State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. LA 913), Catahoula Parish. Mr. Fryer was responsible for preparation of preliminary and final roadway and bridge plans. This project consisted of widening a 4.5 mile segment of LA 15 to four lanes as part of the LA TIMED Program.

01/04 – 05/07	State Project No. 700-30-0061: US 167, Lillie to Arkansas State Line, Union Parish. Mr. Fryer served as project manager, roadway designer, and surveyor responsible for development of final roadway plans, and right-of-way maps. This project consisted of the conversion of a 7.2-mile section of a rural two-lane arterial route to a four-lane divided arterial route under the LA TIMED Program.
10/07 – 04/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Fryer served as project manager, was responsible for QA-QC of the plans, and was surveyor in charge of right-of-way maps. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts.
07/10 – 05/18	State Project No. H.003854: Bossier North-South Corridor from Route I-220/Swan Lake Road Interchange to Crouch Road, Bossier Parish. Mr. Fryer served as project manager, was responsible for QA-QC of the plans, and was the surveyor in charge of right-of-way maps. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on this project.
02/18 - Present	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Fryer serves as project manager, is responsible for QA-QC of the roadway plans, and prepared right-of-way maps for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final plans for this project are currently 98% complete.
05/08 – 05/12	State Project No. H.004780.5 – Kansas Lane Connector (Route US 80 to Route US 165) City of Monroe Urban systems, Ouachita Parish. Mr. Fryer served as project manager and surveyor responsible for conducting topographic surveys, property surveys, and developing right-of-way maps as a sub-consultant to Denmon Engineering Co., Inc. This project involves construction of a four-lane urban arterial route around the University of Louisiana at Monroe connecting US 80 on the south end and US 165 on the northern end.
11/10 – 05/13	Project Surveyor for Contract No. 4400000685: Retainer Contract for Professional Surveying Services - Statewide. This retainer contract authorized 23 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.
03/08 – 04/11	Project Surveyor on Contract No. 4400000638: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract authorized 15 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.
11/11 – 01/15	Project Surveyor on Contract No. 4400001328: Retainer Contract For Professional Surveying Services – Statewide. This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.

Firm employed by Lazenby & Associates, Inc.					
Name	**Lawrence, Hagan H., P.E.**			Years of experience with this firm/employer	5
Title	Assistant Project Engineer			Years of experience with other firm(s)/employer(s)	2
Degree(s) / Years / Specialization				B.S. / 2015 / Civil Engineering	
Active registration number / state / expiration date				P.E. 0043645 / Louisiana / 03/31/2024	
Year registered	2019	Discipline		Civil Engineering	
Contract role(s) / brief description of responsibilities				Road Design, Hydraulic Analysis & 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. Lawrence has 6 years of experience in performing drainage design, hydraulic analysis, and development of roadway plans on both LDOTD and local roadway projects. Mr. Lawrence is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Lawrence has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. Mr. Lawrence has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 LA Specific Traffic Control Supervisor Course, 2020 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022
1/16 – 8/17	State Project No. H010287: Well Road Roundabout, Ouachita Parish. Mr. Lawrence Assisted with Hydraulic Study, Plan Preparation, as well as quantity calculations (with previous employer). This project involved the construction of a roundabout at the I-20 westbound ramp terminal with Well Road.
02/18 – Present	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Lawrence has assisted with hydraulic study and design, and assisted with development of drainage plan-profile sheets and design drainage maps. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.
12/17 – Present	Ouachita Parish Police Jury Road Program. Mr. Lawrence is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of developing pavement preservation roadway plans, including hydraulic design of cross drain structures, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Some of the Ouachita Parish Urban Systems projects that Mr. Lawrence has provided professional services on include the following: State Project No. H.011745 – Sandal Street (Reconstruction) State Project No. H.011784 – Stubbs-Vinson Road (Mill, Patch and Overlay)(Project included 8' x 8' RCB) State Project No. H.013791 – Hadley Street (Mill, Patch and Overlay and includes a segment of Reconstruction) State Project No. H.013776 – Well Road (Mill, Patch and Overlay) State Project No. H.013802 – Garrett Road (Mill, Patch and Overlay)

Firm employed by Lazenby & Associates, Inc.					
Name	**Lazenby, Jerry G. P.E., P.L.S.**		Years of experience with this firm/employer	41	
Title	President		Years of experience with other firm(s)/employer(s)	16	
Degree(s) / Years / Specialization			B.S. / 1965 / Civil Engineering		
Active registration number / state / expiration date			P.L.S. 0002313/ Louisiana / 03/31/2024 P.E. 0012104 / Louisiana / 03/31/2024		
Year registered	1970 1970	Discipline	Professional Land Surveyor Professional Engineer (Civil and Environmental)		
Contract role(s) / brief description of responsibilities			Principal-In-Charge, Project Supervisor and Contract Management, QA-QC		

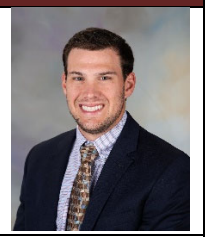
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	Mr. Lazenby has over 50 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. The first 9 years of Mr. Lazenby's career were spend with the U.S. Bureau of Public Roads/Federal Highway Administration at various locations in the United States as a Highway Engineer reviewing and assisting state highway officials with transportation projects utilizing Federal-Aid transportation funding from project inception through construction. Mr. Lazenby has designed and supervised numerous projects for LDOTD over the past 45 years. He has been responsible for the firm's growth as well as the reputation of the firm. He has instilled in each member of the firm to provide a professional product and to deliver on time. Mr. Lazenby has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher) National Environmental Policy Act (NEPA) and Transportation Decision Making On this project, Mr. Lazenby meets the MPR Requirements No. 1 and No. 2.
06/04 – 03/05 01/06 – 06/09	State Project No. 700-37-0102: US 165 (Jct. LA 841 – Rilla), Ouachita Parish. Mr. Lazenby was Principal-in-Charge of this project and performed QA-QC reviews of the plans. On this project Lazenby & Associates performed topographic surveys, property surveys, ROW maps, alignment studies, and prepared preliminary and final roadway plans on a 4.5-mile section of US 165 being widened and upgraded to a four-lane divided arterial route under the Louisiana TIMED Program.
05/00 – 05/04	State Project No. 700-99-0237: Retainer Contract for Professional Surveying Services, Statewide. Mr. Lazenby was Principle-in-Charge responsible for 15 Task Orders to perform topographic surveys, property surveys, and develop ROW maps on various LDOTD projects in northern Louisiana.
01/04 – 05/07	State Project No. 700-30-0061: US 167 (Lillie to Arkansas State Line), Union Parish. Mr. Lazenby was Principle-in-Charge on this project. On this project, Lazenby & Associates developed final roadway plans, final bridge plans, and ROW maps on a 7-mile section of US 167 that was widened to a four-lane rural and urban arterial route under the Louisiana TIMED Program.
07/10 – 12/13	State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish. Mr. Lazenby was Principle-in-Charge and performed QA-QC reviews of the plans. On this project, Lazenby & Associates developed topographic surveys, property surveys, right-of-way maps, preliminary roadway and bridge plans and final roadway and bridge plans along a 7.8-mile corridor being developed as an Urban Systems Project by the Bossier Parish Police Jury.

12/07 – 05/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Lazenby was Principle-in-Charge and Project Manager. On this project, Lazenby & Associates performed topographic surveys, property surveys and developed right-of-way maps, preliminary roadway plans and final roadway plans for the widening of a 3.2-mile section of LA 616 from a two-lane rural roadway section to a five-lane urban roadway section including four multi-lane roundabouts. The project also included the hydraulic analysis of an existing timber bridge site in which the bridge was replaced with a reinforced concrete box culvert.
09/16 – Present	State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Lazenby is Principle-in-Charge. On these projects, Lazenby & Associates performed topographic surveys, developed preliminary roadway plans, and is currently developing final roadway plans for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route with five multi-lane roundabouts. The project includes hydraulic and drainage studies and the development of drainage plans to improve drainage within the project area. Final plans for the transportation project are currently 98% complete.
04/95 – 03/00	State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish. Mr. Lazenby was Principal-in-Charge, Project Manager, and provided QA-QC plan reviews for the project, which consisted of the construction of two voided slab span bridges (main bridge and relief structure) and roadway approaches on new alignment.
11/95 – 06/00	State Project No. 172-01-0011: Bayou DeGlaise Bridge, Morehouse Parish. Mr. Lazenby was Principal-in-Charge, Project Manager, and provided QA-QC plan reviews for the project, which involved the construction of a slab span bridge and roadway approaches on new alignment.

Firm employed by Lazenby & Associates, Inc.					
Name	**Riggin, Ronald J., II, P.E., P.L.S.**			Years of relevant experience with this employer	11
Title	Project Surveyor			Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			B.S. / 2006 / Civil Engineering		
Active registration number / state / expiration date			P.L.S. 0005119/ Louisiana / 03/31/2023 P.E. 0036016 / Louisiana / 03/31/2023		
Year registered	2014 2011	Discipline	Professional Land Surveyor Professional Engineer (Civil)		
Contract role(s) / brief description of responsibilities			Topographic Survey		

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. Riggin is familiar with the requirements of the LDOTD Location and Survey Section for conducting topographic surveys, property surveys and hydrographic surveys. Mr. Riggin is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Mr. Riggin has over five (5) years of experience in conducting and performing topographic surveys, property surveys, and developing right-of-way maps. Mr. Riggin has successfully completed following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher) ATSSA Course for Traffic Flagger, 2020 On this project, Mr. Riggin meets the MPR Requirement No. 4.
07/14 – 06/16	Retainer Contract No. 4400003471 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of $436,473.00 for LDOTD State Projects at various locations in northern Louisiana.
04/13 – 06/16	Project Surveyor for Contract No. 4400002862, S.P. # H.008768 – Hydrographic Survey Monitoring of Existing Bridges – Statewide (North Region). Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.
04/14 – Present	Professional Surveyor of Record for developing topographic surveys and Property Surveys for private clients on residential developments and commercial developments in Ouachita Parish and northern Louisiana. Professional Engineer of Record for the overall design of residential and commercial developments.
03/15 – 08/17	State Project No. H.011742: Ole Highway 15 Improvements, Ouachita Parish. Mr. Riggin performed a topographic survey of a 2.2-mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design. This project consisted of pavement reconstruction under the DOTD Urban Systems program. (Note that we typically perform a full topo survey, within existing right-of-way, on pavement preservation projects on Ouachita Parish roadways. This is not always done on pavement preservation projects in other parts of the state.)
05/16 – 02/18	Project Surveyor on the Steep Bayou Sewer Main project of the West Ouachita Sewerage District No. 5. Mr. Riggin performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish. He also conducted a boundary survey of the right-of-way parcels along this route and developed the necessary ROW maps and legal descriptions.
09/18 – Present	Retainer Contract No. 4400012668 – Retainer Contract for Professional Surveying Services – Statewide (North Region). Performing hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties include supervision of field

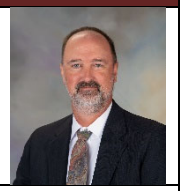
	crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
10/17 – 06/18	Project Surveyor on L & A, Inc. Project No. 17E035.00, 17E036.00, 17E036.01 and 17E036.02, WOSD No. 5 Force Main Project from Lift Station "S-1" on Steep Bayou and LA 837 to the Ouachita River Flood Protection Levee performing alignment surveys and topographic surveys for a 18" sewer force main, a distance of 3.5± miles. Duties include supervising and scheduling of survey crews, analysis of survey data and development of survey field roll for use in project design.
06/18 – 09/18	State Project No. H.013776, Well Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.8-mile segment of Well Road from LA 838 to I-20 under the DOTD Urban Systems program.
08/18 – 11/18	State Project No. H.013798: Harrell Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.8-mile segment of roadway from US 80 to LA 616 under the DOTD Urban Systems program.
12/18 – 02/19	State Project No. H.013802: Garrett Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.4-mile segment of roadway from LA 15 to Austin Street under the DOTD Urban Systems program.
01/19 – 04/19	State Project No. H.013804: Wall Williams Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of segments of mill, patch, and overlay and segments of reconstruction of a 1.6-mile segment of roadway from Good Hope Road to LA 143 under the DOTD Urban Systems program.
04/19 – 07/19	State Project No. H.014348: Lee Avenue, City of Monroe, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.2-mile segment of roadway from Jackson Street to Standifer Avenue under the DOTD Urban Systems program.
07/19 – 09/19	State Project No. H.013796: Tanglewood Drive, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of roadway reconstruction a 0.3-mile segment of roadway from LA 15 to Dellwood Drive under the DOTD Urban Systems program.
02/20 – 04/20	State Project No. H.014347: South Grand Street, City of Monroe, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.8-mile segment of roadway from Orange Street to Standifer Avenue under the DOTD Urban Systems program.

Firm employed by Lazenby & Associates, Inc.					
Name	**Sampognaro, Noah J., E.I.**		Years of experience with this firm/employer	1.5	
Title	Engineer Intern		Years of experience with other firm(s)/employer(s)	0	
Degree(s) / Years / Specialization			B.S. / 2020 / Civil Engineering		
Active registration number / state / expiration date			E.I. 0034746 / Louisiana / 09/30/2023		
Year registered		Discipline	Civil Engineering (E.I.)		
Contract role(s) / brief description of responsibilities			Road Design, Hydraulic Design & Analysis, Topographic Survey		

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. Sampognaro has 1 ½ years of experience in performing drainage design, hydraulic analysis, and development of roadway plans on both LDOTD and local roadway projects. Mr. Sampognaro is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Sampognaro has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects, and has also assisted in developing digital terrain models (DTM's) and existing drainage maps for LDOTD topographic surveys. Mr. Sampognaro has successfully completed the following continuing education classes, workshops, and seminars: TOPO Dot User Conference, 2022 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022
08/21 – 11/21	North Frontage Road – Phase 2, Ouachita Parish. Mr. Sampognaro assisted in the development of roadway plans, including hydraulic design and analysis of cross drains and developing existing and design drainage maps. Mr. Sampognaro also assisted with quantity calculations and preparation of a construction cost estimate. This project, which was prepared for the City of Monroe I-20 Economic Development District, consists of a 0.6-mile frontage road on new alignment north of Interstate 20, east of Garrett Road, in Monroe, Louisiana.
01/21 – Present	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Sampognaro has assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.
01/21 – Present	Ouachita Parish Police Jury Road Program. Mr. Sampognaro has assisted with the Ouachita Parish Police Jury Road Program. His duties consist of developing pavement preservation roadway plans, including hydraulic design of cross drain structures, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Some of the Ouachita Parish Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction) State Project No. H.014397 – Rowland Road (Mill, Patch and Overlay)

06/21 - Present	City of Monroe, Louisiana roadways. Mr. Sampognaro has assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. His duties consist of developing pavement preservation roadway plans, including hydraulic design of cross drain structures. Some of the City of Monroe Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay) State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay)

Firm employed by Lazenby & Associates, Inc.					
Name	**Spillers, James R., P.E.**			Years of experience with this firm/employer	27
Title	Chief Roadway Design Engineer			Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			B.S. / 1994 / Civil Engineering		
Active registration number / state / expiration date			P.E. 0028574 / Louisiana / 09/30/2023		
Year registered	1999	Discipline	Professional Engineer (Civil)		
Contract role(s) / brief description of responsibilities			Road Design, Hydraulic Analysis & Design		



Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
	Mr. Spillers has 27 years of experience in planning and designing highways, streets and bridges and related components on LDOTD projects. He has also served as designer and Project Engineer on several federal-aid Urban System projects for the Ouachita Parish Police Jury and City of Monroe. He is familiar with the LDOTD Roadway Design Procedures and Details Manual and the LDOTD Hydraulics Manual, as well as the AASHTO "Green Book", AASHTO Roadside Design Guide, and the Manual on Uniform Traffic Control Devices. Mr. Spillers has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2018 (refresher) LA Specific Traffic Control Supervisor Course, 2018 (refresher) One-Dimensional Modeling of River Encroachments with HEC-RAS, 2022 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 Bridge Backwater Computer Program (WSPRO), 1996 National Environmental Policy Act (NEPA) and Transportation Decision Making, 2008 Roundabout Design Workshop, Level 1, 2008 Roundabout Design Workshop, Level 2, 2009 Fundamentals of Planning, Design, & Approval of Interchange Improvements to the Interstate System, 2009 Highway Safety Manual Workshop, 2011 Access Management, Location and Design, 2014 Road Safety 365: A Safety Workshop for Local Governments, 2016 Mr. Spillers has in excess of 10 years of experience in preparation of roadway plans and development of roadway design projects. On this project, Mr. Spillers meets the MPR Requirement No. 3.
04/95 – 03/00	State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish. Mr. Spillers performed a bridge hydraulic study, and assisted with preliminary and final roadway and bridge plans for two voided slab span bridges and roadway approaches on new alignment.
11/95 – 06/00	State Project No. 172-01-0011: Bayou De Glaise Bridge, Morehouse Parish. Mr. Spillers performed a bridge hydraulic study, and assisted with preliminary and final roadway and final roadway and bridge plans for a slab span bridge and roadway approaches on new alignment.
01/96 – 09/96	State Project No. 038-03-0022: US 425 (Bastrop – Log Cabin), Morehouse Parish. Mr. Spillers performed hydraulic studies for multiple slab span bridge sites, performed drainage design of cross drains, and assisting with preliminary plan preparation as part of expanded line and grade study for widening a 3.2-mile segment of US 425 to four lanes.
04/96 – 12/96	State Project No. 038-03-0024: US 425 (Log Cabin – Jct. LA 142), Morehouse Parish. Mr. Spillers performed a hydraulic study for twin girder bridges, performed drainage design for cross drains, and assisted with preparation of preliminary plans as part of expanded line and grade study for widening a 5.2-mile segment of US 425 to four lanes.

01/97 – 10/99	State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. La 913), Catahoula Parish. Mr. Spillers performed a hydraulic study for twin slab span bridges, performed drainage design for cross drains, and assisted with the preparation of preliminary and final roadway and bridge plans for widening a 4.5-mile segment of LA 15 to four lanes as part of TIMED program.
04/99 – 07/00	State Project No. 038-04-0008: Route LA 142 (Junction US 425 – North of DeButte Creek), Morehouse Parish. Mr. Spillers performed a hydraulic studies, and prepared preliminary roadway and bridge plans for reconstruction of a 3.5-mile segment of a rural two-lane roadway. Project included a slab span bridge and an RCB.
01/01 – 09/04	State Project No. 002-01-0041: DeSiard Street (Monroe)(Louisville Avenue – Gilbert Street), Ouachita Parish. Mr. Spillers performed a hydraulic study for subsurface drainage, and prepared preliminary and final roadway plans for widening a 1.2-mile segment of US 80 to five lanes.
07/05 – 01/08	State Project No. 015-08-0026: US 165 (LA 841 – Rilla), Ouachita Parish. Mr. Spillers performed a hydraulic study and prepared preliminary and final roadway plans for widening a 6.5-mile segment of US 165 to four lanes as part of TIMED program.
05/07 – 05/10	State Project No. 713-33-0110: Steve Ogden Road Bridge Over Bayou Macon, Madison Parish. Mr. Spillers performed a bridge hydraulic study and prepared preliminary and final roadway plans for a girder bridge on new alignment. This project was successfully constructed with no change orders.
12/07 – 05/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Spillers assisted with the hydraulic study of subsurface drainage systems and prepared preliminary and final roadway plans for widening a 3.2-mile segment of LA 616 to five lanes, including four multilane roundabouts. The project included one bridge site, where an existing timber bridge was replaced with a RCB.
02/11 – 05/17	State Project No. H.003854: Bossier North-South Corridor from Route I-220/Swan Lake Road Interchange to Crouch Road, Bossier Parish. Mr. Spillers performed hydraulic studies for two bridge sites, and prepared preliminary and final roadway plans on this project. The project consisted of the reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway.
03/14 – 09/16	State Project No. H.004608: Choudrant I-20 Service Road, Lincoln Parish. Mr. Spillers performed a bridge hydraulic study and also performed design of a subsurface drainage system, and prepared preliminary and final roadway plans for a 1.1-mile two-lane service road on new alignment.
02/18 – Present	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Spillers prepared preliminary roadway plans and is currently preparing final plans for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final plans for this project are currently 98% complete.
08/21 – 11/21	North Frontage Road – Phase 2, Ouachita Parish. Mr. Spillers was in responsible charge of the development of roadway plans for a 0.6-mile frontage road north of Interstate 20 in Monroe. The owner on this project is the I-20 Economic Development District.
12/16 – 07/17	State Project No. H.011743: 40 Oaks Farm Road, Ouachita Parish – Mr. Spillers performed hydraulic studies for cross drain replacement and replacement of an existing timber bridge with a RCB as part of a LDOTD Urban Systems pavement preservation project.

16. Staff Experience

Firm employed by **Huval & Associates, Inc.**				
Name	**Justin Peltier, P.E.**		Years of experience with this firm/employer	9
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	8
Degree(s) / Years / Specialization			08/01-05/05 Bachelor of Science Civil Engineering	
Active registration number / state / expiration date			34765/LA/09/30/2023	
Year registered	2009	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			**Structural Design (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.
	Mr. Peltier joined Huval & Associates in 2013 with 8 years of experience in civil engineering. Previously employed with LADOTD, he was involved with the design, live load rating, plan development, and construction support of more than 20 bridge replacement projects. These consisted of various superstructure and substructure types including but not limited to: AASHTO p.p.c. girders, quadbeams, cast-in-place slab spans, precast slab spans, steel girders, steel swing spans, concrete box culverts, p.p.c. pile bents, steel H-pile and pipe pile bents, timber pile bents and column bents supported by drilled shafts and/or p.p.c. pile footings. Mr. Peltier assisted in developing and maintaining LADOTD's highway safety hardware details and specifications, including but not limited to guard rail, barrier rail, and crash cushion attenuators. He served as the Engineer of Record for the LADOTD concrete barrier rail and the detour bridge special details. Mr. Peltier's training includes the NHI LRFR for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for Highway Bridge Substructure Course, the Roadside Design Course, ATSSA Traffic Control Technician and Supervisor Course.
(09/20-Present)	**I-10: LA 415 To Essen Lane on I-10 and I-12 CMAR – S.P. H.004100 –** Serving as the lead bridge engineer and overall structures team lead for this $1 billion project to widen I-10 in the heavily congested section through Baton Rouge. This very complex project will replace existing bridges in the urban area within an extremely constrained right of way while maintaining the existing traffic flow on I-10 through the construction zone. Roles include bridge design, plan development, **load rating**, structure rehabilitation, alternative bridge concepts development, construction sequencing, contractor style cost estimates, managing the bridge and structural design and plan production process, leading bi-weekly structures task force meetings, and implementing the bridge design QC/QA process.
(09/19-06/20)	**Airport Connector Road and Bridge, Lafourche Parish, S.P. No. H.011915.** Served as the lead bridge design and **load rating** engineer for a new lift span movable bridge over Bayou Lafourche in Galliano, LA. The bridge required a minimum horizontal and vertical clearance of 70ft and 73ft and a clear roadway width of 42ft with 5ft sidewalks on each side. The project presented unique challenges in that the horizontal clearance is skewed with respect to the bridge alignment and the mean high-water level is approximately 1ft below the existing ground at LA 1 and LA 308. The design included steel lifting girders, steel floor beams and stringers, concrete towers, footings, piers and machinery decks. The design was performed in accordance with the AASHTO LRFD Movable Bridge Design Specifications the LADOTD BDEM. Also responsible for the design of the concrete approach slab spans.

(06/14-04/19)	**US 90 (I-49South), Albertson's Parkway to Ambassador Caffery, Design-Build Project, Lafayette Parish, S.P. No. H.010620.** Served as the lead bridge and **load rating** engineer for the new US 90 bridge over Albertson Parkway and provided Q.C. for the US 90 BNSF RR overpass bridge within the same footprint as the existing bridge while maintaining 4-lanes of US 90 traffic during construction. This presented unique design challenges and required a complex, three-phase, traffic control and construction sequencing plan to move traffic safely through the tight work zone. The bridges consisted of multi-continuous p.p.c. girders spans supported by concrete column bents and pile footings. The developed design concept saved millions of dollars and allowed the James Team to be 15% below the construction estimate of the nearest competitor.
(07/17-08/20)	**I-10: Highland Road to LA 73, Design Build Project, East Baton Rouge & Ascension Parish, S.P. No. H.009250**. Served as the lead bridge and **load rating** engineer for the widening of the I-10 E.B. and W.B. slab span bridges over Manchac Bayou and provided Q.C. for the replacement of the I-10 E.B. and W.B. bridges over Highland Road with a new steel plate girder bridge with p.p.c girder approach spans. The existing I-10 mainline bridge at the Highland Road interchange needed to be reconstructed under the project to provide longer spans in addition to more lanes. An innovative sequence of construction scheme and bridge design enabled construction of this bridge while maintaining 74,000 ADT traffic. Huval's cost-effective designs enabled its design-build team to be the only competitor to fit within the Owner's budget of $72 million.
(03/19-Present)	**I-220/I-20 Interchange IMP & Barksdale Access Design-Build Project, Bossier Parish, LA DOTD S.P. No. H.003370.** Currently the bridge design manager and lead bridge design and **load rating** engineer for the I-220 bridges over I-20 and Barksdale Access Road bridges over the KCS Railroad and also responsible for implementing the QC/QA plan for the bridge design and plan development process. The I-220 structures over I-20 consist of twin bridges utilizing LG-54 p.p.c. girder spans supported by concrete column bents and drilled shafts. The Barksdale Access Road structures consist of twin bridges utilizing LG-54 p.p.c. girder approach spans supported by concrete pile bents and a main span over the KCS Railroad consisting of 170'-0", LG-78 p.p.c. girders supported by concrete column bents and drilled shafts. Some unique challenges that the project has presented is designing applicable I-220 bridge column bents for vehicular collision and completely spanning the KCS own right-of-way utilizing concrete p.p.c. girders.
(04/18 -Present)	**I-49 South at Verot School Road, Lafayette, LA, S.P. H.011235, 2016-Present.** Serving as the lead bridge engineer to provide preliminary and final engineering and related services to construct 2.4 miles of mainline freeway and an interchange at the intersection of I-49 South/US 90 and Verot School Road. The project consists of an above grade bridge structure on Verot School Road that traverses over the I-49 South/US 90 mainline roadway over and parallel to the BNSF RR. The project also includes one-way frontage roads on both sides of the mainline roadway, a two-way collector service road east of the mainline roadway, and a new alignment of Verot School Road from the interchange to an existing bridge structure approximately 600' west of its intersection with LA 182 (Pinhook Road).
(10/16-12/17)	**LA 443: Tangipahoa River Bridge Replacement, S.P. H.012728 -** Lead engineer in the LRFD design, LRFR **load rating**, and plan preparation of a LG-25 and LG-36 p.p.c. girder bridge. This was an emergency replacement, due to the flood of 2016, and 100% final plans were completed in 8 weeks.

Firm employed by **Huval and Associates, Inc.**					
Name	**Colby J. Guidry, P.E.**			Years of experience with this firm/employer	15
Title	Vice President and Lead Engineer			Years of experience with other firm(s)/employer(s)	7
Degree(s) / Years / Specialization			08/95-05/00 Bachelor of Science, Civil Engineering		
Active registration number / state / expiration date			31338/LA/09/30/2022		
Year registered	2004	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			**Structural 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. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspections, and construction support services. Completed the two-week FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs
(1/19-Present)	**Herman Dupuis Swing Span Bridge (Movable) – St. Martin Parish** – Project Manager for the design and plan development of a new swing span bridge over alligator bayou which will replace the Butte LaRose Pontoon bridge. Design elements include all aspects of the bridge including environmental clearance, surveying, structural design, mechanical design, electrical design, hydraulic design, roadway design, and all other design elements.
(10/10-01/22)	**Butte LaRose Pontoon Repairs (Movable) – St. Martin Parish** – Lead Engineer for the design of numerous repairs to the movable pontoon bridge over alligator bayou. Repairs included deck repairs, stringer repairs, cap repairs, pontoon barge repairs, machinery repairs, pile repairs, abutment repairs.
(01/11-08/14)	**St. Ann Bridge Over Bayou Terrebonne (Movable) Swing Span – S.P. 700-55-0107** – Lead structural designer for a new Swing span bridge over bayou Terrebonne. Also assisted with Mechanical reviews throughout the design process. Colby was involved with every aspect of this movable bridge project from environmental clearance through construction. This swing span had unique issues to overcome due to the limited vertical space due to waterway and adjacent road obstructions.
(4/18 – Present)	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 -** Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, and bridge rehab design for the $4M retainer.

(09/12 – 12/17)	**Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, Contract No. 4400002537-** Supervising Engineer of Retainer Contract. Responsible for coordination, inspections, project setup, QA/QC, bridge rehab design for the $6M retainer contract.
(05/11 – 08/15)	**Retainer for Engineering Services for Bridge Preventive Maintenance (BRPM) - Statewide, Contract No. 440001543-**Lead Engineer of Retainer Contract. Led the Inspection and Design for 8 different Task Orders covering Preventive Maintenance Repairs for over 100 Bridges statewide in short timeframes.
(08/09– 06/15)	**Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, S.P. 700-99-0488 -** Lead Engineer of Retainer Contract. Responsible for coordination, inspection team leader, project setup, bridge design, and QA/QC of Task Orders totaling approximately $8.75M over a 5-year period. Contract utilized multiple Subconsultants on all aspects of bridge design and inspection.
(03/09 – 11/12)	**I-49 Bridges (Various Segments), Under Retainer No. 4400000670** – Lead Engineer for LRFR load ratings for 18 bridges, design and final plans of over 10 bridge structures and 1 box culvert structure. Bridge types included steel girder, prestressed concrete, and slab spans. Managed several sub-consultants producing numerous bridge plans.
(01/13-11/15)	**Tappan Zee Bridge, NY Thruway Authority–** Project Manager/design engineer for design of precast tower and anchor pier slabs, pile templates, work platforms, and other systems. Also assisted in the design of temporary fender systems designed to protect the construction area from ice, wave, and ship impacts.
(04/15-Present)	**Cedar Lake Swing Span – (Movable) Biloxi, MS-** Developed plans and specifications for the rehabilitation of the swing span machinery. This work included: Details for the replacement of the, primary gearbox, motor brake, and balance wheels with new. Specifications for the cleaning and inspection of the pivot bearing assembly.
(1/16-12/17)	**Inner Harbor – Navigation Canal Seabrook Bridge Structural Repairs (Movable) Bascule Span – Port of New Orleans** – Lead structural engineer for the means and methods of repair for this structure. Many structural members were required to be replaced while train loads passed on the structure without compromise of the structure. Numerous bypass structural members and complex engineering analysis was required to complete the construction of the project. The contractor hired HUVAL to provide these calculations and construction details and scheme.
(5/16-10/18)	**LA 58 Petit Caillou Rehab (Movable) Lift Bridge --** Lead Design Engineer for the repair and rehabilitation of this vertical lift structure. Various structural, mechanical and electrical repairs were performed for this project. Significant improvement to vertical clearance on the structure for the portal bracing was provided by structural design modifications to the bridge. Structural repairs included removal and replacement of main span deck and girders, portal bracing modifications, machinery platform deck and support repair and modifications, fender system replacement, along with various other repairs.
(05/11-08/16)	**Red River – Jackson St. Bridge, Route US 165 B (Movable) Lift Bridge** – Design engineer for the rehabilitation of the vertical lift bridge. Repairs included abutment repair, approach slab repair, added sidewalks to ADA guidelines, Deck replacement, Operator house repairs, machinery platform and support repairs along with other miscellaneous repair work. Mr. Guidry also performed multiple hands-on inspections of the bridge throughout the design process.

Firm employed by **Huval & Associates, Inc.**			
Reid Romero, P.E.	Years of experience with this firm/employer	13	
Civil Engineer	Years of experience with other firm(s)/employer(s)	0	

Degree(s) / Years / Specialization			08/04-05/08 Bachelor of Science Civil Engineering
Active registration number / state / expiration date			37772/LA/09/30/2023
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			**Bridge 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. Romero came to HUVAL after graduating from the University of Louisiana at Lafayette in 2008. Since joining Huval & Associates, Inc., Mr. Romero has been involved in bridge and structural design, plan preparation, bridge inspections and construction support services. Mr. Romero completed several NHI training courses including Fundamentals of LRFR and Applications of LRFR for bridge superstructures course, and a Drilled Shaft LRFD design methods and construction procedures course. Mr. Romero is familiar with the LADOTD Bridge Design Manual, LADOTD LRFD Bridge Design Manual, 2002 AASHTO Bridge Specifications, as well as the current AASHTO LRFD Bridge Specifications.	
(4/18 – Present)	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 -** Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and bridge rehab design for the $4M retainer.
(5/20 – Present)	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400017262 -** Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and bridge design for the $5M retainer.
(03/19-Present)	**I-220/I-20 Interchange Imp & BAFB Access Design Build Project – S.P. No. H.003370 –** Responsible for QA of the bridge plans and load rating for the LA 1267 bridges over I-20 and the LA 1267 bridges over the KCS Railroad. The LA 1267 structures over I-20 consist of twin bridges utilizing LG-54 p.p.c. girder spans supported by concrete column bents and drilled shafts. The LA 1267 structures over KCS Railroad consist of twin bridges utilizing LG-54 p.p.c. girder approach spans supported by concrete pile bents and a main span over the KCS Railroad consisting of 170'-0", LG-78 p.p.c. girders supported by concrete column bents and drilled shafts. Some unique challenges that the project has presented is designing applicable LA 1267 bridges over I-20 column bents for vehicular collision and completely spanning the KCS own right-of-way utilizing concrete p.p.c. girders.
(01/19-05/19)	**I-10 Loyola Design-Build Project RFP Phase 30% Design - S.P. H.011670–** Lead bridge engineer throughout the RFP design phase for this complex urban interchange. Assisted in the preparation of steel tub girder design and details, concrete box girder design and plans, as well as plans and proposal documents for the RFP phase of the project. Created dozens of computer models in order to analyze and size the steel tub girders, taking into account system redundancy. Assisted in development of alternative technical concepts, suggested sequence of construction, and miscellaneous bridge and other details. Assisted in the coordination and organization of all project data with the various members of the design team from numerous consulting firms.
(06/14-05/19)	**US 90 (I-49South), Albertson's Parkway to Ambassador Caffery, Design-Build Project, Lafayette Parish, S.P. No. H.010620.** Performed QA/QC of the LRFD bridge design calculations, LRFR load rating, and plan preparation of a BT-72 girder bridge. The new US 90 bridge over Albertson Parkway and the US 90 BNSF RR overpass bridge were built within the same footprint as the existing bridge while maintaining 4-lanes of US 90 traffic during construction. This presented

	unique design challenges and required a complex, three-phase, traffic control and construction sequencing plan to move traffic safely through the tight work zone. The bridges consisted of multi-continuous p.p.c. girders spans supported by concrete column bents and pile footings. The developed design concept saved millions of dollars and allowed the James Team to be 15% below the construction estimate of the nearest competitor.
(7/17-8/20)	**I-10: Highland Road to LA 73, Design Build Project, East Baton Rouge & Ascension Parish, S.P. No. H.009250**. Led the design, plan preparation, and load rating for the repair of the prestressed girder bridge on LA 928. Performed QA/QC of the LRFD design calculations and load rating for the steel girder bridge at Highland Road and the slab span widening at Bayou Manchac. The existing I-10 mainline bridge at the Highland Road interchange needed to be reconstructed under the project to provide longer spans in addition to more lanes. An innovative sequence of construction scheme and bridge design enabled construction of this bridge while maintaining 74,000 ADT traffic. Huval's cost-effective designs enabled its design-build team to be the only competitor to fit within the Owner's budget of $72 million.
(10/16-current)	**New Swing Span- Herman Dupuis RD. Pontoon BR. Replacement, St. Martin, LA, Bridge Recall 200896–** Lead structural engineer for the bridge design and plan development of a new swing span bridge over alligator bayou which will replace the Butte LaRose Pontoon bridge. Project is currently under construction. Designed, detailed, and sealed final plans, specifications, calculations, load rating and cost estimates for all structural elements.
(11/17-07/18)	**Surrey St. Bridge Repairs, Lafayette Parish –** Lead Engineer for the repair of the Surrey St. Bridge in Lafayette. Project consisted of bearing repair and replacement, concrete riser construction, deck overlay, joint repairs, painting of steel girders with full enclosure, and miscellaneous work.
(03/11-06/13)	**I-49 Segment I Ratings, S.P. 701-65-9999 –** Performed as-designed LRFR calculations on two prestressed girder bridges. Utilized VIRTIS to model varying girder spans. Created rating reports for each span configuration. Developed bridge load rating summary sheets. Provided construction services on an as-needed basis.
(01/12– 11/13)	**I-49 North Segment J (MLK Blvd. to LA 1), S.P. H.003496.5–** Performed LRFD design calculations and led plan preparation on two prestressed girder and steel girder bridges. Performed approach slab design, girder design check using LEAP Conspan, cap and column design check using LEAP RC Pier, steel girder design check using MDX, deck and overhang reinforcing design check, strip seal joint opening calculations, quantity calculations and QA/QC, and elevation calculations Mr. Romero also provided load rating of the completed structure.
(03/09-11/10)	**I-49 North (LA 1 – LA 173), S.P. 701-65-1230 & S.P. 701-65-1349–** Assisted in plan preparation and performed LRFD design calculations on a Type BT Prestressed Girder Bridge and a Type IV Prestressed Girder Bridge. Performed fixed and expansion bearing pad design, deck and overhang reinforcing design, quantity calculations and QA/QC, strip seal joint opening calculations, girder design check using LEAP Conspan, cap and column design check using LEAP RC Pier, and elevation checks.

Firm employed by **Huval & Associates, Inc.**			
Matthew L. Hebert, P.E.	Years of experience with this firm/employer	8	
Civil Engineer	Years of experience with other firm(s)/employer(s)	5	

Degree(s) / Years / Specialization			08/02-05/08 Bachelor of Science Civil Engineering
Active registration number / state / expiration date			37713/LA/09/30/2023
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			**Bridge Design and Ratings**

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.

Mr. Hebert joined Huval & Associates, Inc. in 2013 with 5 years' experience in civil engineering. Previously employed with LADOTD, he was involved with the design, live load rating, plan development, and construction support of more than 20 bridge replacement projects. These consisted of various superstructure and substructure types including but not limited to: AASHTO precast prestressed concrete (P.P.C.) girders, quad beams, cast-in-place slab spans, precast slab spans, concrete box culverts, P.P.C. pile bents, steel H-pile bents, and pipe pile bents.

Additionally, Mr. Hebert was project manager for multiple bridge replacement projects. His responsibilities included coordinating all aspects of the plan development process including but not limited to road, bridge, hydraulic, and geotechnical engineering and determining the project scope, schedule, and budget.

Mr. Hebert's training includes the NHI LRFR for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for HWY Bridge Superstructure Course NHI AASHTO LRFD for Highway Bridge Substructure Course, the NHI AASHTO Roadside Design Course, and the NHI Design and Construction of Driven Pile Foundations Course.

(10/19-Present)	**Cheniere Spillway and Bridge Replacement, S.P. H.008226 –** Lead engineer for the LRFD design, plan preparation, and LRFR live load rating for the Cheniere spillway bridge. The bridge consisted of 25ft. slab spans integrated with a fixed crest weir and overflow structure.
(10/20-Present)	**I-10 CMAR: LA 415 to Essen Lane on I-10 and I-12, East & West Baton Rouge Parishes S.P. H.004100 –** As an Engineer on this project, Mr. Hebert developed an alternative bridge construction phasing approach through a constructability review. This alternative phasing approach leads to safer MOT and reduced construction times, throughout the corridor.
(02/17-11/20)	**I-10 Design Build-LA 42 to LA 73, S.P. No. H.009250-** Lead Engineer for the LRFD design, plan preparation, and LRFR live load rating for the Highland Rd. overpass. Highland Rd. consisted of a full replacement of 2 existing structures utilizing a 3-span structure which included 2-60ft. prestressed girder spans and 1-190ft. steel plate girder span. The superstructure is support by column bents and pile bents and will be one structure at the end of the project. In order to maintain traffic, the bridge had to be constructed in 3 separate stages.

(04/14-07/18)	**I-49 South-US 90 Albertson Pkwy to Ambassador Design Build, H.010620–** Lead Engineer for LRFD Bridge design and plan preparation of the mainline bridge and the two frontage road bridges over BNSF Railway. The brides consisted of BT-72 girder spans with column bents and pile footings.
(06/19-Present)	**I-220/I-20 Interchange IMP & BAFA Access Design-Build Project, S.P. H.003370 –** Mr. Hebert is serving as Bridge Design Quality Assurance on this design build project which will provide direct access to Barksdale Air Force Base. Most recently, Mr. Hebert has assisted with the QA of the I-220 Overpass bridges and KCS Overpass bridges on the project.
(9/18 – 6/19)	**Loyola Design Build I-10 Airport Interchange, Jefferson Parish, Louisiana, S.P. No. H.011670-** Mr. Hebert was a primary bridge engineer throughout the RFP design phase for this complex urban interchange. A new interchange was designed and superimposed onto the existing Diamond interchange to provide direct connector access to the new New Orleans International Airport terminal. Assisted in the preparation of steel tub girder design and details, concrete box girder design and details, as well as plans and proposal documents for the RFP phase of the project. Assisted in development of alternative technical concepts, suggested sequence of construction, and miscellaneous bridge design items and other details. Assisted in the coordination and organization of all project data with the various members of the design team from numerous consulting firms.
(3/18 – Present)	**Belle Chasse Public-Private Partnership Project, Plaquemines Parish, Louisiana, Project No. H.004791--** Mr. Hebert was the Bridge Design Lead throughout the design phase for this new high-level fixed bridge over the Intracoastal Waterway. The new bridge will replace the existing moveable bridge and tunnel system. This is the first highway public-private partnership project in Louisiana. The bridge will be constructed in 2 stages to assist in MOT.
(9/18 –8/19)	**LA 106: Bayou Boeuf Bridge, H.009497** - Lead Engineer for the LRFD design, plan preparation, and LRFR live load rating of a new bridge structure to replacement an existing bridge. The new bridge structure consisted of LG girders and pile bents.
(11/15 – 4/17	**Kaliste Saloom Roadway Widening, LCG –** Lead Engineer for the LRFD Bridge Design and plan preparation of an AAHSTO Type 4 girder bridge with pile bents on skew.

A Firm employed by	G.E.C., Inc.		
Name	**Mickey Prattini Jr., PE**	Years of experience with this firm/employer	**7**
Title	Senior Electrical Engineer	Years of experience with other firm(s)/employer(s)	**11**
Degree(s) / Years / Specialization		BS / 2004 / Electrical Engineering	
Active registration number / state / expiration date		35993 / Louisiana / 03-31-2023	
Year registered	2011	Discipline	Electrical and Computer
Contract role(s) / brief description of responsibilities		Role on this Project: **Electrical Engineer / Fulfills MPR 5**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
18 years of experience	*Mr. Prattini's more than 18 years of electrical design experience includes lighting design and quality control, wastewater treatment facilities and lift stations, multiple pump motor installations in hazardous (classified) locations, generator installation projects, and multiple government (municipal and transportation) projects. Mr. Prattini is experienced with NFPA standards required by electrical projects and is capable of completing the design and project management related tasks required for this project. He has consistently managed client and stakeholder relations along with design challenges to produce quality deliverables in line with the project's delivery schedule.*
06/15-Present	**RETAINER NO. 44-2746, T.O. H.010916 / PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA.** *Quality Control / Electrical Engineer of Record* - Mr. Prattini performed Quality Control for this project for one task order, and is the Electrical Engineer of Record for a separate task order. Project makeup consists of the following types of roadway lighting standards: 12 ground-mount low mast and 50 barrier-mount low mast. GEC provided design services under two Task Orders and will provide CE&I under a third.
02/16-05/18	**RETAINER NO. 44-2746, T.O. H.003462 / I-12 AT NORTHSHORE BOULEVARD INTERCHANGE LIGHTING: Slidell, LA.** *Quality Control* - Mr. Prattini performed Quality Control for this project. Services included design, development of plans and specifications, and CE&I as required.
11/16-02/17	**RETAINER NO. 44-2746, T.O. H.010440 / I-210 OVER CALCASIEU RIVER WEST OF I-10 INTERSTATE LIGHTING: Lake Charles, LA.** *Quality Control* - Mr. Prattini performed Quality Control for this project. Services include feasibility study, design, development of plans and specifications, and CE&I as required.
01/17-06/18	**RETAINER NO. 44-2746, T.O. H.012602 / MORRISON ROAD INTERSTATE LIGHTING: New Orleans, LA.** *Quality Control* - Mr. Prattini performed Quality Control for this project. Project limits included the I-10 / Morrison Road Interchange. GEC provided design and construction services under two separate Task Orders.
02/17 – Present	**RETAINER NO. 44-2746 & RETAINER NO. 44-11354 T.O. H.012469, US 190: MISSISSIPPI RIVER BRIDGE – NAVIGATION LIGHT REPLACEMENT: Baton Rouge, LA.** *Quality Control / Electrical Engineer of Record* - Mr. Prattini performed Quality Control under retainer 44-2746 and Engineer of Record under retainer 44-11354. Project makeup consists of installing a new generator, navigation lighting, and aviation lighting. GEC provided design services only under this contract.
6/20-Present	**H.007300 / LADOTD, KANSAS LN. – GARRETT RD. CONNECTOR: Monroe, LA.** *Electrical Engineer of Record* - Mr Prattini is overseeing the electrical design of the project. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.** *Electrical Engineer of Record* - Mr. Prattini has provided photometric and lighting design review and quality control review 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.

Firm employed by	**G.E.C., Inc.**	
Name	**Mickey Prattini Jr., PE**	CONTINUED
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).	
09/20-Present	**H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA.** *Electrical Engineer of Record* - Mr. Prattini is overseeing the design of interstate roadway lighting and enhancement (aesthetic) lighting for locations such as the City Park Lake Bridge and the Greenway path from the Expressway Park to the bridge.	
06/15 – 09/18	**GNOEC, REPLACE THE DMS: St. Tammany and Jefferson Parishes, LA.** *Electrical Engineer of Record* - The project provided for the removal and replacement of 15 Dynamic Messaging Sign (DMS) installations on the Lake Pontchartrain Causeway Bridge and approach roadway systems. Over 5,000' of fiber and 15,000'of underground conduit was installed to upgrade GNOEC's Northshore communications infrastructure. GEC identified unique opportunities to introduce system improvements for updating the traffic management system (hardware and software) placed on the overhead truss installed for the toll collection system. GEC identified unique opportunities to introduce system improvements that would have a direct impact on traffic management and the on-going effort to provide dynamic solutions. Cost: $3.2M	
06/16 – 07/18	**GNOEC, GENERATOR RELOCATION AND FUEL SYSTEM: St. Tammany Parish, LA.** *Electrical Engineer of Record* - The project involved the installation of two, 2,000 gallon, above ground fuel tanks (diesel and gasoline) with connected standby generator and fuel dispensing system. The generator supplies backup power to the North Toll Plaza site, which includes their toll collection system. Total Construction Cost: $453k	
2018 – Present	**STANDBY GENERATORS AT PARISH PUMP STATIONS (BIG BELLE TERRE, CAPT. BOURGEOIS, AND NED DUHE): St. John the Baptist Parish, LA.** *Project Manager & Electrical Engineer of Record* - HMGP-funded project to install generators at three sewer lift station locations. Mr. Prattini is performing the project management duties, coordinating and tasking personnel, and overseeing the electrical design development. This project is currently under construction.	
2018-2019	**OAK HARBOR EAST UTILITY, LAKESHORE ESTATES 300K WWTP EXPANSION: Slidell, LA.** *Electrical Engineer of Record* - Mr. Prattini designed the power distribution system for a 300,000 gallon per day WWTP system including generator standby power system, area lighting, and construction support.	
2019-06/21	**OAK HARBOR EAST UTILITY, LAKESHORE ESTATES 450K WWTP EXPANSION: Slidell, LA.** *Electrical Engineer of Record* - Mr. Prattini designed the power distribution system for a 450,000 gallon per day WWTP system.	
2019-06/21	**OAK HARBOR EAST UTILITY, LAKESHORE ESTATES WATER WELL #2: Slidell, LA.** *Electrical Engineer of Record* - Mr. Prattini designed the power distribution system for a 75,000 gallons per day water well site including 400kW generator standby power system.	
07/15 – 02/17	**H.004698/H.007250, LADOTD, ALMONASTER AVE. BRIDGE AND APPROACHES: New Orleans, LA.** *Electrical Engineer / Quality Control* - Mr. Prattini performed the preliminary electrical design followed by Quality Control in the later stages of this project. Project consisted of replacing the existing bridge with a rolling leaf bridge to support the roadway and railroad in accordance with all relevant standards.	
10/15-04/18	**RETAINER NO. 44-2746, T.O. H.010720 / I-12: LA 1088 INTERCHANGE LIGHTING: Slidell, LA**. *Quality Control* - Mr. Prattini performed Quality Control for this project. GEC provided design services and construction services under two Task Orders.	

Firm employed by	G.E.C., Inc.		
Name	**Thomas Coerver Jr., PE**	Years of experience with this firm/employer	**31**
Title	Senior Electrical Engineer	Years of experience with other firm(s)/employer(s)	**6**
Degree(s) / Years / Specialization		BS / 1980 / Electrical Engineering; MBA / 1990 / Management Information Systems	
Active registration number / state / expiration date		30722 / Louisiana / 09-30-2023	
Year registered	2003	Discipline	Electrical and Computer
Contract role(s) / brief description of responsibilities		Role on this Project: **Electrical Engineer / Fulfills MPR 5**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
37 years of experience	*Mr. Coerver has experience in engineering and planning for utilities distribution systems, automatic test systems, and navigation and flood control projects. He also has over 20 years of experience with computers using several operating systems for GIS design, implementation, and analysis; computer aided design and drafting; database design and analysis; and internet publishing. His most recent projects at GEC involved electrical power distribution systems, roadway and bridge lighting, fiber optic communication systems, and wireless and landline communication systems. Design duties include preparation of plans and specifications, Quality Control and Quality Assurance (QC/QA) review, calculations, data collection, and report preparation. Construction Engineering and Inspection (CE&I) duties include review of shop drawing and equipment submittals, respond to request for information, review/prepare as-built drawings, review payment applications, and perform periodic inspection and final system acceptance.*
06/15-Present	**RETAINER NO. 44-2746, T.O. H.010916 / PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA.** *Electrical Designer* - Mr. Coerver designed roadway lighting for this project under the signing engineer. Project limits include the I-210 Bridge over Prien Lake and the I-210 / Cove Lane Interchange. Project makeup consists of the following types of roadway lighting standards: 12 ground-mount low mast and 50 barrier-mount low mast. GEC provided design services under 2 Task Orders and will provide CE&I under a third. In addition, lighting control and power distribution and system protection is included.
06/16-03/19	**RETAINER NO. 44-2746, T.O. H.003451 / LA 434 INTERCHANGE LIGHTING (LACOMBE): Lacombe, LA.** *Electrical Engineer of Record*- Mr. Coerver was the signing engineer on this project. Project limits include the I-12 / LA 434 Interchange. Project makeup consists of the following types of roadway lighting standards: 72 ground mount low mast and 4 underpass. GEC provided design services and construction services under two Task Orders. Lighting control and power distribution & system protection was included.
07/15-10/16	**RETAINER NO. 44-2746, T.O. H.010720 / I-12: LA 1088 INTERCHANGE LIGHTING: Slidell, LA.** *Electrical Engineer of Record* - Mr. Coerver was the signing engineer on this project. Project limits include the I-12/ LA 1088 Interchange. Project makeup consists of the following types of roadway lighting standards: 68 ground mount low mast and 8 underpass. GEC provided design services and construction services under two Task Orders, in addition to lighting control, power distribution, and system protection.
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana.** *Electrical Engineer* - Mr. Coerver has performed photometric and lighting layout design, sequence of construction, schedule analysis, and quality control review 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, which consists generally of highway and bridge design and engineering services.
2019-Present	**H.007300 / LADOTD, KANSAS LN. – GARRETT RD. CONNECTOR: Monroe, LA.** *QC Review, Electrical Design Oversight* - Mr. Coerver completed photometric and lighting layout design, sequence of construction, schedule analysis, and quality control review for this project.. Design tasks included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.

Firm employed by	**G.E.C., Inc.**
Name	**Thomas Coerver Jr., PE** CONTINUED

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).
2018	**RETAINER NO. 44-2746, T.O. H.000687 / I-12 AT US-11 INTERCHANGE LIGHTING: Slidell, LA.** *Electrical Engineer* – Mr. Coerver was the signing engineer on this project and performed electrical design, developed plans and specifications, and performed engineering during construction for the following types of roadway lighting standards: 55 ground-mount low mast, one ground mount high mast, and eight underpass. In addition, lighting control and power distribution and system protection was included in the design.
2013-2018	**RETAINER NO. 44-2746, T.O. H.003462 / I-12 AT NORTHSHORE BOULEVARD INTERCHANGE LIGHTING: Slidell, LA.** *Electrical Engineer*– Mr. Coerver was the signing engineer on this project which consisted of the following types of roadway lighting standards: 27 ground mount low mast, 20 barrier mount low mast, 8 ground mount high mast, and 8 underpass. In addition, lighting control and power distribution and system protection was included. Services include design, development of plans and specifications, and CE&I as required.
2013-2018	**RETAINER NO. 44-2746, T.O. H.010440 / I-210 OVER CALCASIEU RIVER WEST OF I-10 INTERSTATE LIGHTING: Lake Charles, LA.** *Electrical Engineer* – Project makeup consisted of the following types of roadway lighting standards: 44 ground mount low mast, 54 structure mount low mast (bridge), 7 barrier mount low mast, 10 ground mount high mast, and 4 underpass. Mr. Coerver was the designer of the roadway lighting system on this project under the signing engineer. In addition, lighting control and power distribution and system protection was included. Services included design, development of plans and specifications, and CE&I
01/17-06/18	**RETAINER NO. 44-2746, T.O. H.012602 / MORRISON ROAD INTERSTATE LIGHTING: Slidell, LA.** *Electrical Engineer of Record* – Mr. Coerver provided submittal reviews for this project. GEC provided design and construction services under two separate Task Orders.
06/17-Present	**H.003074 / I-10 WIDENING: WILLIAMS TO VETERANS BLVD: New Orleans, LA.** *Electrical Designer* - Mr. Coerver was involved in roadway lighting design and provided QA/QC on this project. GEC Electrical is responsible for preparing a feasibility study for the lighting within the project limits that will be affected by the widening of the I-10 in this area. This includes a total length of 2 miles of widening and three interchanges, all of which will need revisions to the lighting systems as well as significant coordination with the FAA for the lighting design.
2011-2012	**H.001496 / HOUMA TUNNEL LIGHTING: Houma, LA.** *Electrical Engineer* – Mr. Coerver was involved in roadway lighting design and provided QA/QC on this project. Project limits are from the east and west approaches for the tunnel under the Intracoastal Waterway (approximately 0.5 miles along LA-3040). GEC is responsible for design and construction services. Project Makeup consists of replacing existing lighting system with IP66 rated tunnel lighting in accordance with IESNA/ANSI RP-22 as well as low mast roadway lighting on the approaches in accordance with IESNA/ANSI RP-8. Services include design, development of plans and specifications, and CE&I as required.
1999-2004	**450-15-0089, 17TH STREET CANAL TO CAUSEWAY (LADOTD, PROJECT NO. 450-15-0089): Metairie, LA.** *Electrical Engineer* - Mr. Coerver was involved in roadway lighting design on this project. Projects limits are from 17th Street Canal to Causeway Blvd (approximately 2 miles along I-10). Project makeup consist of 120 ft. high mast poles, median lighting using individual lowering devices on 55 ft. poles, and conventional 40 ft. mounting height poles. In addition, lighting control and power distribution and system protection was included. Services included design, development of plans and specifications, and CE&I as required.
01/17-06/18	**RETAINER NO. 44-2746, T.O. H.012601 / READ BLVD INTERSTATE LIGHTING: New Orleans, LA.** *Electrical Engineer of Record* - Mr. Coerver provided submittal reviews for this project. GEC provided design and construction services under two separate Task Orders.

Firm employed by	G.E.C., Inc.		
Name	**Luis Diaz, EI**	Years of experience with this firm/employer	**1**
Title	Electrical Engineer Intern	Years of experience with other firm(s)/employer(s)	**1**
Degree(s) / Years / Specialization		BS / 2019 / Electrical Engineering	
Active registration number / state / expiration date		34863 / Louisiana / 09-30-2023	
Year registered	2021	Discipline	Intern
Contract role(s) / brief description of responsibilities		Role on this Project: **Electrical Engineer Intern**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
2 years of experience	*Mr. Diaz has experience performing electrical design under the supervision of GEC's professional electrical engineering staff. He provides lighting layout design support, voltage drop and conduit fill calculations, photometric calculations, and quality control review.*
05/21-Present	**H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA.** *Electrical Engineer* - Mr. Diaz has revised photometric and lighting layout design, sequence of construction, schedule analysis, and quality control review 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, which consists generally of highway and bridge design and engineering services
05/21-Present	**H.007300 / LADOTD, KANSAS LN. – GARRETT RD. CONNECTOR: Monroe, LA.** *Electrical Engineer* - Mr. Diaz completed design under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing
07/21-Present	**H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA**. *Electrical Design* - Mr. Diaz assisted with an enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge. Luis also assists in the design of the Roadway, Walkway , Underpass, Service Road and Roundabout Lighting. Involved in the lighting analysis, voltage drop calculation, and lighting layout of the enhancement lighting.
12/21-Present	**SELA PUMP STATION #13 (SUBSTATIONS RELOCATION) – ALGIERS, ORLEANS PARISH: New Orleans, LA.** *Electrical Design* - GEC performed services for the relocation of the Algiers SELA Pump station's substation and construction of the new pump station including replacement of the existing diesel engines with three (3) 3500 Horsepower electric motors and three (3) 3.25MW 4160V generators. The new design includes a new electrical systems such as new Variable Frequency Drives and Medium-Voltage Switchgear as well as the relighting the pump station and the substation.
2021-Present	**H.013617.5 / LADOTD, I-10: I-610 E INTERCHANGE - ORLEANS PARISH: Metairie, LA.** *Electrical Design* - Mr. Diaz completed design under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
2021-Present	**H.003074.5 / LADOTD, I-10: WILLIAMS BLVD. TO VETERANS BLVD.: New Orleans, LA.** *Electrical Design* - Mr. Diaz completed design work under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.

Firm employed by	G.E.C., Inc.		
Name	**Nicholas Montegut**	Years of experience with this firm/employer	**4**
Title	Electrical Designer	Years of experience with other firm(s)/employer(s)	**0**
Degree(s) / Years / Specialization		BS / 2017 / Electrical Engineering	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Role on this Project: **Electrical Designer**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
4 year of experience	*Mr. Montegut has 3.5 years of experience in designing electrical lighting and power systems. As an engineer intern, under the supervision of a professional engineer, he has performed photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash analysis, and protective device sizing for LADOTD interstate and urban projects. In addition to roadway lighting projects, Mr. Montegut has experience in the analysis of generator systems performing generator-sizing calculations to meet a project's power requirements, voltage drop and conduit fill calculations, conductor sizing, protective device coordination ad arc flash analysis using ETAP. Mr. Montegut's experience with electrical systems includes boots-on-the-ground field training, working as an electrician's assistant during four summers for Triad Electric and Controls. His portfolio of experience also includes working at Noranda Alumina as an intern.*
06/19-Present	**H.007300 / LADOTD, KANSAS LN. – GARRETT RD. CONNECTOR: Monroe, LA.** *Electrical Design* - Mr. Montegut completed design under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
05/20-Present	**RETAINER CONTRACT FOR ELECTRICAL SERVICES: Statewide, LA.** *Construction Engineering and Inspection* - In July 2019, GEC was selected by LADOTD for a six-year retainer contract to provide Stage 3 (Design) and Stage 5 (Construction Support/Inspection), services. For the I-10: Crowder Blvd. Interstate Lighting, Route I-10 project in Orleans Parish (H.013442), Mr. Montegut is providing construction related engineering services.
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA**. *Electrical Design* - Mr. Montegut has assisted with photometric and lighting layout design for the GEC/Boh Bros. team. Design tasks included construction plan set development, voltage drop and conduit fill calculations, conductor sizing, arc flash analysis, and protective device sizing. 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.
09/19-Present	**LA SAFE AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA.** *Electrical Design* - 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. Mr. Montegut provided the illumination analysis to determine the placement of decorative light poles along the pathway. Mr. Montegut also completed the design of the construction plan set under the supervision of the signing engineer. Design task included voltage drop calculations, conduit routing, conductor sizing, and plan set development.
07/21-Present	**H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA.** *Electrical Design* - Mr. Montegut assisted with an enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge. Additional design tasks include lighting design and photometric calculations for interstate, service roads, and walkways within the project limits.

Firm employed by	G.E.C., Inc.		
Name	**George "Bowman" Guttner**	Years of experience with this firm/employer	**17**
Title	Electrical Inspector	Years of experience with other firm(s)/employer(s)	**5**
Degree(s) / Years / Specialization		N/A	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Role on this Project: **Electrical Inspector**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
22 years of experience	*Mr. Guttner has over 20 years of experience in electrical system design and construction of low voltage systems, 8 of which he worked as a licensed electrical contractor in the state of Louisiana. He also has experience in the installation and maintenance of UPS and standby generator backup power systems. He is the lead inspector for GEC on electrical power construction projects.*
01/17-10/18	**RETAINER NO. 44-2746, T.O. H.012601.5 / READ BLVD INTERSTATE LIGHTING: New Orleans, LA.** *Inspector* - Project limits include the I-10 / Read Blvd. Interchange. Mr. Guttner was an inspector for the project, which consisted of ground mount low mast, structure mount low mast, ground mount high mast, and underpass. In addition, lighting control, power distribution, and system protection is included.
01/17-10/18	**RETAINER NO. 44-2746, T.O. H.012602.5 / MORRISON ROAD INTERSTATE LIGHTING: New Orleans, LA.** *Inspector* - Project limits include the I-10 / Morrison Road Interchange. Mr. Guttner was an inspector for the project, which consisted of ground mount low mast, structure mount low mast, ground mount high mast, and underpass. In addition, lighting control, power distribution, and system protection is included.
10/12-10/18	**RETAINER NO. 44-2746, T.O. H.003451 / LA 434 INTERCHANGE LIGHTING: Slidell, LA.** *Inspector* - Project limits include the I-12 / LA 434 Interchange. Mr. Guttner was an inspector for the project, which consisted of 72 ground mount low mast and 4 underpass. In addition, lighting control, power distribution, and system protection is included.
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana.** *Electrical Inspector* - 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, which consists generally of highway and bridge design and engineering services.
05/18-10/20	**RETAINER NO. 44-2746, T.O. H.013442.5 / CROWDER BLVD INTERSTATE LIGHTING: New Orleans, LA.** *Inspector* - Project limits include the I-10 / Crowder Blvd. Interchange. Mr. Guttner was an inspector for the project, which consisted of ground mount low mast, structure mount low mast, ground mount high mast, and underpass. In addition, lighting control, power distribution, and system protection is included.
12/19-Present	**T.O. H.012874.6 / I-55 LA 22 INTERSTATE LIGHTING: Tangipahoa, LA.** *Inspector* - Project limits include the I-10 / LA-22 Interchange. Mr. Guttner was an inspector for the project, which consisted of ground mount low mast, ground mount high mast. In addition, lighting control, power distribution, and system protection is included.

Firm employed by	G.E.C., Inc.		
Name	**Max Churchman**	Years of experience with this firm/employer	**13**
Title	ITS/Electrical Technician	Years of experience with other firm(s)/employer(s)	**10**
Degree(s) / Years / Specialization		N/A	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Role on this Project: **Electrical Design**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
22 years of experience	*Mr. Churchman has over 20 years of experience in electrical system design and construction. Design tasks included lighting plan set development, preparing cost estimates, Documents Packages, and entering FAA obstruction evaluation tickets. Construction Engineering and Inspection (CE&I) duties include review of shop drawing and equipment submittals, respond to request for information, review/prepare as-built drawings, review payment applications, and perform periodic inspection and final system acceptance.*
02/20-Present	**H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana.** *Electrical Design* - Mr. Churchman assisted with light pole layout, conduit routing and conductor sizing, fiber optic network design, and movement of CCTV camera.
06/20-Present	**H.007300 / LADOTD, KANSAS LN. – GARRETT RD. CONNECTOR: Monroe, LA.** *Electrical Design* - Mr. Churchman assisted with the electrical project management duties and performed design tasks such as electrical service point location selection, light pole placement, conduit routing, documents package, cost estimates and FAA obstruction evaluation tickets.
8/20-3/22	**RETAINER NO. 44-11354, T.O. H.013617 / I-10: I-610E INTERCHANGE LIGHTING: New Orleans, LA.** *Electrical Design* - Mr. Churchman coordinated with stakeholders in developing a high-mast dense lighting schema, reducing maintenance costs and traffic management issues over the life of the lighting system as compared to low mast poles. Design tasks included electrical service point location selection, light pole placement, underpass lighting, conduit routing, documents package, cost estimates and FAA obstruction evaluation tickets.
10/20-9/21	**RETAINER NO. 44-11354, T.O. H.013442 I-10 @ CROWDER BLVD INTERSTATE LIGHTING: New Orleans, LA.** *Electrical Design* - Mr. Churchman provided project coordination, submittal reviews and RFI responses. GEC provided design and construction services under two separate Task Orders.
06/15-Present	**RETAINER NO. 44-2746, T.O. H.010916 / PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA.** *Electrical Design* - Mr. Churchman contributed to roadway lighting for this project under supervision of the Engineer of Record (EOR). Project limits include the I-210 Bridge over Prien Lake and the I-210 / Cove Lane Interchange. Project makeup consists of the following types of roadway lighting standards: 12 ground-mount low mast and 50 barrier-mount low mast. GEC provided design services under 2 Task Orders and will provide CE&I under a third.
11/15-12/16	**H.011500 / LAKE CHARLES ITS PHASE 3: LAKE CHARLES, LA.** *ITS Technician* - System Engineering Analysis (SEA) for the construction and integration of two new backbone sites, four new cantilever mount DMS sites, and seven new CCTV camera sites. Network design includes new fiber optic backbone and connection to existing leased fiber optic backbone. Assisted with SEA and prepared 30% plans.

Firm employed by Neel-Schaffer, Inc.					
Name	**Charles Adams, P.E., PTOE**			Years of experience with this firm/employer	16
Title	Senior Project Engineer			Years of experience with other firm(s)/employer(s)	13.5
Degree(s) / Years / Specialization			B.S. / 1992 / Civil Engineering		
Active registration number / state / expiration date			PE 0027440 / LA / 9-30-2023; PE 114786 / TX 6-30-2023; PTOE No. 878 / 1-29-2024		
Year registered	1997	Discipline	Civil		
Contract role(s) / brief description of responsibilities			TCP/TMP/Traffic Study		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
02/18 - Present	**Kansas Lane – Garrett Road Connector – Monroe, LA:** NSI performing TMP for project as well as developing temporary signal design plans, developing permanent signal design plans, and developing fiber plans to relocate impacted fiber. Mr. Adams is preparing the TMP and all signal design plans. *Sr. Project Manager*
08/20 - Present	**I-10 & I-12 College Dr. Flyover Ramp – Baton Rouge, LA:** NSI is performing IMR, TMP, preliminary design, final design, review of TTC plans, and signal design. Mr. Adams is reviewing all TTC plans and developing preliminary signal plans. *Sr. Project Manager*
07/16 – Present	**I-49 at Verot School Rd – Lafayette, LA:** NSI is preparing design plans and reviewing the TTC plans and the TMP. Mr. Adams is reviewing the TTC plans and developing the TMP for the project. *Sr. Project Manager*
12/17 – Present	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7 – mile, 4 lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. The roadway and drainage design are being completed in conformance with LADOTD guidelines. Includes 5 multilane roundabouts. *Mr. Adams is providing the Traffic Control Plans*.
07/13 – 09/15	**US 71 Corridor Study – Bossier City, LA:** Traffic study of US 71 from Barksdale Blvd. to Curtis Sligo Rd. to evaluate existing conditions, a no build condition and 2 alternatives considering J-turns, median closures, and driveway reductions/connectivity. *Sr. Project Manager*
04/15 – 05/15	**Swan Lake Rd Transportation Master Plan – Bossier City, LA:** NSI will evaluate roadway options to improve the flow of traffic in and around the intersection of Swan Lake Road and Modica Lott, from I-220 to Tiburon as well as explore options to improve the existing roadway network between Swan Lake Road and Airline Drive. *Sr. Project Manager*
03/11 – 08/14	**I-10 French Branch Bridge-W. Pearl River Bridge – Slidell, LA:** I-10 French Branch Bridge at W. Pearl River Bridge temporary traffic control plans. *Sr. Project Manager*
12/13 – 07/14	**Tarbutton Road Interchange – Ruston, LA:** NSI performed all necessary analyses for the proposed I-20 Interchange with Tarbutton Road for the City of Ruston, LA. *Sr. Project Manager*
08/12 – 03/19	**LA 1026 (Juban Rd) Widening – Livingston Parish, LA:** Highway widening project with roundabouts. Prepared TCP
08/08 – 08/12	**LA 33 Roundabout Study – Ruston, LA:** NSI provided a completed Traffic Study related to the proposed roundabouts at LA 33 and I-20 WB off-ramp and I-20 at the I-20 EB off-ramp in Ruston, LA. *Sr. Project Manager*
08/20 – 10/20	**St. Vincent Avenue at 84th Street, Signal and Sign Design**, Shreveport, LA

01/19 – 03/20	**LA 3 at Walter O Bigby Carriageway and US 79 at Hamilton Road, Signal and Sign Design**, Bossier City, LA
03/20 – 07/20	**Tower Drive at Bienville Drive, Signal, Signs, and Striping Design**, Monroe, LA
01/20 – 04/20	**Swan Lake Road at Innovation Drive and Swan Lake Road at Modica Lott Road, Signal and Sign Design,** Bossier City, LA
03/19 – 06/19	**Airline Drive at Linton Road, Signal Modifications**, Bossier, LA
06/18 – 11/18	**Kingston Road at Fairburn Avenue, Signal and Sign Design**, Bossier City, LA
09/17 – 06/18	**LA 33 at Celebrity Drive, Signal and Sign Design**, Ruston, LA
08/17 – 12/17	**Airline Drive at Wemple Road, Signal Modifications, Bossier, LA**
04/16 – 02/17	**Shed Road at Hickory Ridge and Shed Road at Stockwell Road, Signal and Sign Design**, Bossier City, LA
08/12 – 01/17	**Kings Highway Signal System Upgrade,** Shreveport, LA
03/15 – 02/16	**US 171 at Ardis Taylor, Signal and Sign Design**, Shreveport, LA
08/15 – 10/15	**US 167 at Hudson Avenue, Signal and Sign Design**, Jackson, LA
04/15 – 10/15	**LA 523 at Camp Forbing Drive, Signal and Sign Design**, Shreveport, LA
01/15 – 11/15	**LA 3105 Dist 04 Signal Timing Study**, Bossier City, LA
Career History	Mr. Adams has nearly 30 years' experience in the area of Traffic Data Collection, Traffic Signal Timing, Traffic Signal Design, Traffic Operations, Traffic Safety, ITS and Transportation Engineering. He manages a wide range of local and regional projects that vary in complexity from developing traffic control plans for major construction projects and traffic signal timing plans to performing roundabout feasibility studies and other traffic related studies for both public and private clients. Prior to joining Neel-Schaffer, Inc. Mr. Adams was employed by the Louisiana Department of Transportation and Development (LA DOTD) where he served as the State Traffic Engineer. Mr. Adams has extensive experience with managing and developing plans for traffic signals, traffic controls, and intersection improvements as well as performing roundabout analyses and Stage 0 Traffic Studies.
Certifications	Certified in Work Zone Traffic Control Supervisor, Technician and Flagger

Firm employed by Neel-Schaffer, Inc.					
Name	**Santosh Andem, P.E., PTOE**			Years of experience with this firm/employer	11
Title	Senior Traffic Engineer			Years of experience with other firm(s)/employer(s)	4
Degree(s) / Years / Specialization			B. Tech/2003/Civil Engineering M. S./2006/Civil Engineering		
Active registration number / state / expiration date			No. 0036465 / LA / 03-31-2024 PTOE No. 3017		
Year registered	2011	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Traffic Study/Traffic Forecasting		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
01/14 – Present	**Roundabout Stage 0 Studies, Lafayette Consolidated Government, Lafayette, (SPN H.004490)** This is a task order contract to conduct Stage 0 Feasibility Studies which evaluate constructability, safety, and operations of modern roundabout at 23 intersections. Tasks completed by Mr. Andem include signal warrant analysis, crash analysis, spot speed data analysis, evaluation of existing conditions, forecasting future volumes using Lafayette Metropolitan Organization Travel Demand Model, and preparation of the report detailing the findings and recommendations.
04/18 – 04/20	**Rees St (LA 328) Corridor Study (State Project No. H.013023, F.A.P. No. H.013023)** This is a feasibility Study of improving LA 328/Rees Street from Latiolais Drive to Bridge Street. Tasks completed by Mr. Andem include data collection, intersection/corridor analysis, field review observations, intersection and corridor safety analysis for No Build and existing conditions, forecasting future volumes and active participation in public meetings.
04/18 - Present	**LA 1256 Corridor Study from Patton Street to Dave Dugas Road, Calcasieu Parish, Louisiana** This project involves widening of LA 1256 from Patton Street to Dave Dugas Road. Three Roundabout intersection are analyzed. Tasks completed by Mr. Andem includes intersection and corridor safety analysis, data collection, roundabout analysis using SIDRA, writing technical memorandum documenting conclusions and recommendations.
01/12 – 06/13	**Baton Rouge Metropolitan Planning Organization (MPO) Transportation Plan Update, LADOTD, EBR, WBR, Ascension, Livingston and Iberville Parishes, LA:** Mr. Andem worked on the safety element of this project. Tasks completed by Mr. Andem included identifying high crash segments/intersections, crash patterns, determination of contributory causes and developing report detailing findings and recommendations.
01/14 – 1/15	**Lake Charles Urbanized Area Metropolitan Transportation Plan (MTP) 2040, Calcasieu Parish, LA:** Mr. Andem worked on the safety element of this project. Tasks completed by Mr. Andem included identifying high crash segments/intersections, crash patterns, determining contributory causes and developing report detailing findings and recommendations. benefit cost analysis, monthly progress reports, meeting minutes and preparation of the report detailing study findings and recommendations.

03/12 – 04/12	**N. University Avenue (LA 182) Widening, Lafayette Consolidated Government, Lafayette, LA:** This project involves widening of University Avenue between I-10 and Pont des Mouton Road. Three roundabout geometry intersections are proposed. Tasks completed by Mr. Andem includes preparing a VISSIM model for build scenario, air quality analysis using MOVES 2010a and preparing air quality report documenting study findings.
10/12 – 01/13	**LA 935 (LA 431 to LA 22) Safety Study/Stage 0 Feasibility Study, LADOTD, Ascension Parish, LA:** This is a Safety Stage 0 Study. Tasks completed by Mr. Andem included the identification of crash clusters, the review of hard copy police reports, determinization of the contributory causes and the development and evaluation of the effectiveness of proposed alternatives using IHSDM.
Career History	Mr. Andem joined Neel-Schaffer, Inc. in 2011. Mr. Andem serves as a traffic engineer/transportation planner for traffic impact studies, traffic simulation models, signal timing, local and regional travel demand models, corridor analysis, demographic forecasting and other traffic engineering related projects for both public and private developments. He has extensive experience in traffic engineering which includes safety studies related to intersection/lane departure/pedestrian, signal warrant analysis, roadside hazard, fatal crash reviews, corridor analysis, qualitative assessment, signal timing, signal design traffic impact studies and traffic control. Mr. Andem has experience in using Synchro/Sim Traffic, Highway Capacity Software (HCS), VISSIM, Tru-Traffic, AutoCAD, Microstation and SignCAD. Additionally, he has working knowledge of CORSIM and TransCAD. **He completed the Highway Safety Manual. 2 ½ day workshops conducted by the FHWA Resource Center, NCHRP 17-38 in May 2014**.

16. Staff Experience:

Firm employed by Neel-Schaffer, Inc.			
Name	**Jonathan Duhe, PE, PTOE, RSP[1]**	Years of experience with this firm/employer	9
Title	Project Engineer	Years of experience with other firm(s)/employer(s)	1

Degree(s) / Years / Specialization			BS / 2011 / Civil Engineering
Active registration number / state / expiration date			PE 0041047 / LA / 03-31-2023; PTOE No. 4418 / 03-18-2024; RSP No. 282 / 07-17-2022
Year registered	2016	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Traffic Study/IMR; Meets MPR 6

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/20 - present	**I-10/12 College Drive Flyover Design Build (H.013897.1), Baton Rouge, LA**: *Traffic Engineer.* Performing a traffic study at the I-10/12 merge in an effort to improve capacity and safety. Assisted with uncalibrated VISSIM model. Assisted with safety analysis.
04/20 – 06/21	**District 05 Safety Investment Plan (Contract No. 4400010504, T.O. No. H.014295.1) District 05, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
09/21 - present	**Harding Blvd at I-110 (CP Proj. No. 20-CP-HC-0016), Baton Rouge, LA**: *Traffic Engineer.* Performing a traffic study along Harding Boulevard between Rosewood Street and Merle Gustafson Drive including the I-110 Ramps in an effort to improve capacity. Assisted with data collection and Initial Data Collection Report.
09/20 - present	**College Drive Enhancement Project (CP Proj. No. 20-CP-HC-0033), Baton Rouge, LA**: *Traffic Engineer.* Performing a traffic study along College Drive between Perkins Road and Bawell Street/Bankers Avenue including the I-10 Ramps in an effort to improve capacity and safety. Assisted with data collection including peak period observations and travel time runs. Also performed safety analysis along the College Drive corridor.
12/19 – present	**US 80: Intersection @ Bellevue Rd (S.P. No. 44-10504, T.O. No. H.014044.1), Bossier Parish, LA:** *Project Engineer.* Oversaw Intersection Operational Analyses (HCS), safety analysis, alternative development, and traffic report preparation.
02/19 – 03/20	**District 07 Safety Investment Plan (Contract No. 4400010504, T.O. No. H.013826.1) District 07, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
11/17 – 04/19	**District 08 Safety Investment Plan (Contract No. 4400010504, T.O. No. H.013264.1) District 08, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
11/16 – 04/19	**LA 385 (Ryan St) Feasibility Study (Contract No. 4400004402, T.O. No. H.012685.1) Lake Charles, LA:** *Traffic Engineer*. Assisted with intersection analysis including Vistro analysis. Assisted with safety analysis including reviewing crashes, creating collision diagrams, identifying conflict points, and using LaDOTD's CATScan tool to analyze safety. Also assisted with report preparation.
02/16 – 10/17	**LA 6 Feasibility Study (Contract No. 4400004402, T.O. No. H.012307.1) Natchitoches, LA:** *Traffic Engineer*. Assisted with intersection analysis including Sychro and Sidra analysis. Assisted with safety analysis including reviewing crashes, creating

16. Staff Experience:

	collision diagrams, and using the HSM Predictive method to analyze safety of potential alternatives. Also assisted with report preparation.
02/15 – 12/17	**US 51 Business (I-12 to Coleman) Corridor Study (Contract No. 4400004064, T.O. No. H.011402.1):** *Traffic Engineer.* Assisted with report preparation.
06/15 – 07/16	**LA 431 at LA 934 Intersection Improvements (H.007855.5), Ascension Parish, LA**: Performed a traffic signal timing study for 5 intersections along LA 431 and signal design plans for the intersection of LA 431 at LA 934 in association with the proposed intersection improvements.
04/18 – 06/19	**LA 1256 Adaptive Signal System, Cameron Parish, LA:** Engineer for modification of 5 traffic signals along LA 1256 from Dave Dugas Road to I-10 in Sulphur, LA in order to implement the SynchroGreen Adaptive traffic signal system.
03/20 – 06/20	**Braud Rd @ Germany Rd Temp. Signal Design, Gonzales, LA:** *Project Engineer* developed signal layout and timing parameters for temporary signal. Signal design included developing Clearance Calculations, utilizing Synchro for signal timing, designing in MicroStation software, developing Intersection Quantities, and creating a Traffic Signal Inventory)
03/19 - 11/19	**District 08 Signal Timing Study (S.P.No.44-8851, T.O. No. H. 011960.5), Natchitoches, LA:** *Project Engineer* Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs
03/19 - 11/19	**US 61 Signal Timing Study (S.P.No.44-8851, T.O. No. H.011186.5), Baton Rouge, LA:** *Project Engineer* Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs
04/19 - 11/19	**LA 14 Signal Timing Study (S.P.No.44-8851, T.O. No. H.012467.5), Lake Charles, LA:** *Project Engineer* Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs
Career History	Mr. Duhe joined Neel-Schaffer in 2013 and has nearly a decade of experience working on a wide range of traffic and transportation projects. Mr. Duhe has worked on many intersection/corridor signal timing studies and signal design projects and other traffic engineering related projects for both public and private projects. Mr. Duhe is experienced with numerous traffic engineering software packages include HCS, SYNCHRO, VISTRO, Tru-Traffic (TSPPDraft), and SIDRA. Mr. Duhe has completed training and has experience using LADOTD's **CAT Scan safety tool**. Mr. Duhe is a certified Professional Traffic Operations Engineer (PTOE), a **Road Safety Professional (RSP1)** and has completed LADOTD's **Traffic Engineering Process and Report (TEPR)** training.

Firm employed by Neel-Schaffer, Inc.					
Name	Nick Ferlito, Jr., P.E., PTOE			Years of relevant experience with this employer	26
Title	Senior Vice President			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			B.S. / 1993 / Civil Engineering M.S. / 1996 / Civil Engineering		
Active registration number / state / expiration date			No. 28001 / LA / 09-30-2023 Professional Traffic Operations Engineer No. 930		
Year registered	1998	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Traffic Lead (MPR #6)		

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).
8/20 - Present	**I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA** (H.013897) Project Manager for Interchange Modification Report, Transportation Management Plan (TMP) and ITR of MOT Plans for the proposed College Drive Ramp improvements. The IMR was prepared in accordance with DOTD's TEPR and FHWA Policy Points. The IMR analysis was performed using Vissim software. In addition, the TMP was prepared for the various maintenance of traffic phases. Analysis used in the TMP included HCS analysis for detour evaluations and Dynameq (Mesoscopic Modeling) for evaluating various MOT strategies.
8/20 – Present	**College Drive Enhancement Project (Perkins Road to I-10), Baton Rouge, LA** (Movebr Project 19-EN-HC-0033) Project Manager for the Traffic Study component for the study of the College Drive corridor. The Traffic Study is being prepared in accordance with DOTD' TEPR and includes performing all analysis in Vissim to evaluate various alternatives. In addition to corridor improvements, a tiered analysis will be performed to evaluate various interchange alternatives for I-10 at College Drive. Dynameq was also be used to evaluate off system and connectivity alternatives within the study area.
12/19 – Present	**US 80 Feasibility Study, Haughton, LA:** Stage 0/Traffic & Safety Study (S.P. No. 44-10504, T.O. No. H.014044.1) Project Manager for the preparation of a Stage 0 Report in support of safety improvements along US 80 corridor, specifically in the vicinity of Bellevue Road and Mid South Loop Road. All analysis performed in HCS for this study. The traffic study was performed in accordance with DOTD's TEPR.
02/18 - Present	**Kansas Lane-Garrett Road Connector and I-20 Improvements, Monroe, LA:** (S.P. No. H.004774.5 & H.007300.6) Project Manager/Traffic Lead for the preparation of a Level 4 Transportation Management Plan, review of MOT plans, design of temporary and permanent traffic signals and design of the relocation of DOTD ITS fiber optic trunk line.
07/16 - Present	**I-49 South at Verot School Road, Lafayette, LA:** (S.P. No. H.011235.5) Performed Traffic QA/QC on the preparation of a Transportation Management Plan and design of temporary and permanent traffic signals.
01/19 – 03/20	**District 07 Safety Investment Plan, DOTD District 07 (S.P. No. H.013826.1)** Project Manager for safety study to evaluate the crash history on state and local highway networks using variations in crash statistics to identify possible roadway issues and potential infrastructure and operations safety countermeasures.
02/16 – 04/18	**LA 22 Corridor Study, Rou Mar Nei Drive to 1st Street (S.P. No. 44-4064, T.O. No. H.011618.1), Ponchatoula, LA** Project Manager for a traffic study to evaluate corridor improvements along LA 22 as well as interchange concepts at I-55.

	A TIER analysis was performed at the interchange of I-55 at LA 22 to evaluate various interchange configurations. The corridor analysis included HCS analysis to evaluate RCUT and roundabout corridor concepts.
02/15 – 4/18	**LA 384 Stage 0, Lake Charles, LA – Traffic & Safety Study (S.P. No. 44-4909, T.O. H.011242.1)** Project Manager for traffic and safety study for LA 384 (Country Club Road) from Big Lake Road to McNeese Street.
02/16 – 10/17	**LA 6 Feasibility Study, Natchitoches, LA – Stage 0/Traffic & Safety Study (S.P. 44-4402, T.O. No. H.012307.1)** Project Manager for the Stage 0 Study, including a comprehensive safety analysis and traffic study for the purpose of analyzing existing and future conditions along the LA 6 corridor between Parish Road 542 west of I-49 to LA 3278 east of I-49, including the LA 6 interchange with I-49 to determine feasible alternatives that will preserve and enhance mobility and safety.
11/16 – 08/19	**LA 385 Feasibility Study, Lake Charles, LA – Stage 0/Traffic & Safety Study (S.P. No. 44-4402, T.O. No. H.012685.1)** Project Manager for the Stage 0 Report in support of safety and traffic operational improvements along with the LA 385 (Ryan Street) corridor between LA 3186 south of I-10 to Eddy Street north of I-10, including the LA 385 interchange with I-10.
10/13 – 12/16	**LA 30 Stage 0, Gonzales, LA – Traffic & Safety Study (S.P. No. 44-1862, T.O. H.010572.1)** Project Manager for the traffic study performed as part of the Stage 0 Report. The traffic study included a TIER analysis for new interchange concepts for the I-10 at LA 30 interchange as well as corridor improvements between LA 3251 and LA 44. In addition, future traffic forecast for the study were developed using the CRPC Travel Demand model and considered future interchanges at I-10 and LA 74 and LA 429. The recommended TIER I alternatives were analyzed in detail using Vissim.
5/14 – 3/16	**LA 73 Stage 0, Prairieville, LA – Traffic & Safety Study (S.P. H.011160.1)** Project Manager for the traffic study performed as part of the Stage 0 Report. The traffic study included a TIER analysis for new interchange concepts for the I-10 at LA 73 interchange as well as corridor improvements between LA 74 and LA 629. In addition, future traffic forecast for the study were developed using the CRPC Travel Demand model and considered future interchanges at I-10 and LA 74 and LA 429. .
3/13 – 2/17	**Grand Prairie Highway Interchange and Frontage Road, Rayne, LA (H.003763)** Project Manager for an interchange justification report (IJR) for a new interchange along I-10 at LA 98 in Rayne, LA. The IJR include data collection, traffic forecasting, HCS analysis for one build alternative and the no build. The IJR was completed in accordance with FHWA's 8 policy points concerning a request for a break in control of access.
7/13 – 5/15	**Safety Study, LA 49 (Williams Blvd.,) Kenner, LA – Stage 0 / Safety Study (S.P. No. 4400001583, T.O. No. H.010570)** Project Manager for the Stage 0 Report in support of safety improvements along the US 49 (Williams Boulevard) corridor between Airline Drive and 32nd Street north of I-10.
11/12 –04/14	**Operational / Safety Study, LA 1088, Mandeville, LA - (S.P. No. 4400002630, T.O. No. H.010116)** Project Manager for a traffic and safety study to evaluate corridor improvement alternatives that included roadway widening and converting traditional intersections to roundabouts.
4/13 – 6/14	**Tarbutton Road at I-20 Interchange Justification Report, Ruston, LA (S.P. No. 700-31-0114)** Project Manager for the update of the IJR Report for the proposed break in control of access on I-20 for a new interchange at Tarbutton Road in Ruston, LA. The IJR included new data collection, traffic forecasting, and HCS analysis. The IJR was completed in accordance with FHWA's 8 policy points concerning a request for a break in control of access.

Firm employed by Neel-Schaffer, Inc.					
Name	**William Case Fulcher, PE, PTOE, PTP, RSP$_1$**			Years of experience with this firm/employer	5
Title	Project Engineer			Years of experience with other firm(s)/employer(s)	3
Degree(s) / Years / Specialization			BS / 2012 / Civil Engineering; MS / 2015 / Civil Engineering		
Active registration number / state / expiration date			PE 0045329 / LA / 09-30-2023; PE 31725 / MS / 12-31-2022		
Year registered	2021	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Safety Analysis		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
08/20 - Present	**I-10 / I-12 College Drive Flyover Design Build, Baton Rouge, LA**: Traffic Engineer, Safety Analyst. Provided the safety analysis for the interchange modification report and traffic management plan for the proposed changes to the merger between I-12 and I-10 in Baton Rouge.
05/20 – 06/21	**Retainer Contract for Safety Studies, District 05 Safety Investment Plan, Ouachita Parish, LA (S.P. No. 44-10504, T.O. No. H.014295.1):** Project Manager, Traffic Engineer, Safety Analyst. Performed area wide safety screening to identify areas with high potential for safety improvements. Identified potential safety improvements to 76 locations including segments and intersections within LADOTD District 05. Prepared a ranked priority list of projects. Coordinated and led project meetings.
9/21 - Present	**Retainer Contract for Safety Studies, District 61 Safety Study, LA (S.P. No. 44-10504, T.O. No. H.014684.1):** Safety Analyst. Performed area wide safety screening and crash analysis to identify areas with high potential for safety improvements. Identified potential safety improvements to 9 intersections within LaDOTD District 61.
10/21 - Present	**Harding Boulevard at Interstate I-110 ("MovEBR"):** Safety Analyst. Performed crash analysis along Harding Boulevard in the vicinity of I-110 to determine potential safety issues and develop safety improvement recommendations where feasible.
09/20 – Present	**College Drive Enhancements ("MovEBR"):** Safety Analyst. Performed crash analysis along College Drive in the vicinity of I-10 to determine potential safety issues and develop safety improvement recommendations where feasible.
02/19 – 03/20	**Retainer Contract for Safety Studies, District 07 Safety Investment Plan, 4400010504, Task Order No. H.013826.1.** Engineer Intern: Analyzed and compared safety countermeasures and analyzed crash history to determine potential improvements. Developed a priority list for future safety projects.
02/18 - 02/19	**Retainer Contract for Safety Studies, District 08 Safety Investment Plan, 4400010504, Task Order No. H.013264.1.** Engineer Intern, Safety Analyst. Identified potential safety improvements to seventy-two locations including both segments and intersections within LADOTD District 08. Developed an Excel based tool to perform benefit/cost comparisons of safety countermeasures. Prepared a ranked priority list of projects.

01/17 – 04/19	**LA 385 Ryan Street Feasibility Study, Lake Charles, LA (S.P. No. 44-4402, T.O. No. H.012685.1),** Engineer Intern. Performed data collection, traffic engineering, and transportation planning services for a feasibility study to determine safety and operational improvements for approximately 1.8 miles of LA 365 in Lake Charles, LA. Services included traffic volume forecasts, intersection and segment analysis, alternative development, and identifying potential safety countermeasures.
02/17 - 10/17	**Runway 13-31 RSA & RPZ Improvement Project Traffic Study (S.P. No. H.011279.1)** Engineer Intern: Provided traffic analysis and transportation planning services for the proposed relocation of LA 67 to provide an extended runway safety area for the Baton Rouge Metropolitan Airport.
02/17 - 02/18	**US 190 & US 171 Signal Timing Study (S.P. No. 44-4064, T.O. No. H.012686.5)** Engineer Intern: Provided traffic engineering services including both the development and implementation of traffic signal timing plans for ten signals in DeRidder, LA.
02/20 – 10/21	**I-59 at US 49 PEL Study, Forrest County, MS:** Traffic Engineer, Safety Analyst. Provided the safety analysis for both existing and future expected conditions. Assisted with traffic engineering services**.**
01/20 – 09/21	**Mississippi State University Master Plan Update, Mississippi State, MS:** Transportation Planner. Services included identifying improvements to existing circulation, identifying new beneficial connections, determining areas of parking need, identifying potential new parking locations.
06/17 – 09/18	**I-10 New Orleans Master Plan, Port Access Improvements, New Orleans, LA:** Engineer Intern. Provided traffic engineering and transportation planning services to develop an operational and capital improvement plan for the I-10 corridor at its junction with US 90B to improve congestion and port access.
06/21 - Present	**District 6 Emergency Signal and ITS Repair, Hancock and Harrison Counties, MS:** Traffic Engineer. Performed signal inventories and prepared signal design sheets and quantity takeoffs.
06/21 – Present	**US 51 between Church Road and Green T Road, Desoto County, MS (S.P. No. SPR- 1(1 2l) /1.08597 -1 10000, T.O. No. NS-P/E 2019-04):** Traffic Engineer, Safety Analyst. Provided the safety analysis and assisted with traffic engineering services for improvements to this section of US 51.
05/21 – 09/21	**I-59 at US 49 PEL Study, Forrest County, MS:** Traffic Engineer, Safety Analyst. Provided the safety analysis for both existing and future expected conditions. Assisted with traffic engineering services.
Experience Summary	Mr. Fulcher joined Neel-Schaffer in 2017 after working as a graduate research/teaching assistant for the Mississippi State University Department of Civil and Environmental Engineering. Since joining Neel-Schaffer he has provided a variety of traffic data collection and safety analysis studies and services. Mr. Fulcher has extensive experience in corridor and intersection safety studies. Through the evaluation of crash history, roadway geometrics, and traffic volumes, he evaluates a variety of safety improvements to provide a ranked list of safety improvements. Mr. Fulcher has completed training and has extensive experience with LADOTD's **CAT Scan safety tool.** He also has significant experience in traffic forecasting, modeling, and analysis using CORSIM, HCS, Vistro, Synchro, ISATe, and TruTraffic. Mr. Fulcher is a certified Professional Traffic Operations Engineer (PTOE) and a **Road Safety Professional (RSP1)** and has completed LADOTD's **Traffic Engineering Process and Report (TEPR)** training.

Firm employed by Neel-Schaffer, Inc.					
Name	**Ronald Kirk Gallien, PE, PTOE**			Years of experience with this firm/employer	2
Title	Senior Project Manager			Years of experience with other firm(s)/employer(s)	36
Degree(s) / Years / Specialization			BS / 1984 / Civil Engineering / Louisiana Tech University		
Active registration number / state / expiration date			PE 0023428 / LA / 09-30-2023; PTOE No. 1288		
Year registered	1989	Discipline	Civil		
Contract role(s) / brief description of responsibilities			TMP/TCP/Traffic Study/IMR/Safety Analysis		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
2020 – Present	• **Prepared Level 4 Transportation Management Plan for the I-10 and I-12 College Drive Flyover Design Build project**, H.013897.6. Preparation of the plan included identifying the scope, goals, and constraints of the project, performing traffic and safety analyses, and assessing detour routes to effectively manage traffic during the project. Assisted with developing plans for stakeholder and public involvement during the project as well as the development of plans for maintenance of traffic, temporary traffic control, and work zone management strategies to be implemented during the project. • **Garrett Road-Kansas Lane Connector** project, H.007300, assisted in preparation of a **Level 4 Transportation Management Plan**. Assisted with designing temporary traffic control and temporary traffic signal construction and operations required for the project. Reviewed plans and performed QA/QC for temporary and permanent traffic control throughout the entire project limits. • **Completed traffic studies and prepared written Traffic Engineering reports**. Specific duties of traffic engineering studies included compiling filed data, performing peak period observations, performing analyses, QA/QC of field data and analyses, forming conclusions and recommendations based on the results of analyses, and preparation of technical reports. Studies included developments such as a 600-student middle school, a 400-student charter school, commercial subdivision, and a 650-unit student housing facility near Louisiana Tech University. Traffic studies and Traffic Engineering written reports also included modifications to existing traffic control devices such as traffic signal installations and modifications, signing, and pavement markings. • Compiled field data and assisted with analysis of data and preparation of a written report to create a **District 05 Safety Investment Plan for DOTD District 05**, 4400010504, Task Order No. H.014295.1. This included analysis of crash data, determination of crash patterns, determination of appropriate safety countermeasures, benefit/cost analyses, compilation of results and compilation of recommended safety improvements for 32 state and local segments as well as 99 state and local intersections.
1994 – 2007	**DOTD District 05 – District Traffic Operations Engineer**

	• Performed numerous traffic studies and composed numerous traffic engineering reports regarding traffic control such as traffic signal installations and modifications, signing, pavement markings, and establishing speed limits. • Annually investigated and analyzed existing traffic control devices at locations identified as having a high potential for safety improvement and recommended and implemented modifications to improve traffic flow and safety at these locations. • Coordinated and supervised upgrading all traffic signals (approximately 275) in District 05 from electromechanical to electronic controller operations. • Worked closely with private developers and public entities regarding access to proposed developments to ensure conformance with DOTD standards • Completed construction lay-out of pavement markings on numerous highway construction projects, including centerline passing/no passing zone markings on overlay projects. **Projects:** • Computerized Traffic Signal System in District 05 (State Project No's. 015-31-0043 & 016-01-0034) – provided technical assistance to the consultant during design of the project as well as construction personnel during installation of the field equipment. After completion of the project, implemented and used the computerized traffic signal system to manage traffic operations on US 165. • I-20 Elevated Section Rehabilitation Ouachita Parish (State Project No's. 451-06-0121 & 451-06-0139) – provided technical assistance regarding interstate lane closures and traffic control during design and construction of the project. • I-20 Mississippi River Bridge Modifications – provided technical assistance regarding interstate lane closures and traffic control during design and construction of the project.
2007 – 2014 and 2018 – 2020	**DOTD District 05 – Assistant District Administrator of Operations**
	• Supervised traffic engineering and operations, district-wide roadway maintenance, bridge inspection and maintenance, and roadside development activities in District 05. • Administered all contract maintenance activities in District 05. • Reviewed traffic impact studies and reviewed and approved access connection, utility, and project permits in District 05. • Planned, managed, and directed all emergency response activities in District 05, which included emergency response, repairs, and recovery related to hurricanes, flooding, tornados, and winter weather.
2014 – 2018	**DOTD Headquarters – Assistant Secretary of Operations**
Certifications	• Professional Civil Engineer – State of Louisiana • Professional Environmental Engineer – State of Louisiana • Professional Traffic Operations Engineer • **Traffic Engineering Process and Report (Modules 1, 2 & 3) – DOTD** • Safety Inspection of In-Service Bridges – National Highway Institute • National Incident Management System – FEMA • Crash Investigation and Reconstruction – Northwestern University

16. Staff Experience:

Firm employed by Neel-Schaffer, Inc.					
Name	**Ellen Burke Howard, PE, PTOE**			Years of experience with this firm/employer	8.5
Title	Project Manager			Years of experience with other firm(s)/employer(s)	5
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering / LSU		
Active registration number / state / expiration date			PE 0038207 / LA / 03-31-2024; PTOE No. 3735		
Year registered	2013	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Traffic Study/IMR/Safety Analysis		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
07/21 – Present	**US 190 Access Management Stage 0 and Traffic Study:** *Traffic Engineer* responsible for initial and final data collection, existing safety analysis and existing and no build traffic analysis, final traffic report
09/21 - Present	**MOVEBR Harding Boulevard at Interstate I-110 (C-P Proj. No. 20-CP-HC-0016):** *Traffic Engineer* responsible for initial and final data collection, existing safety analysis and existing and no build traffic analysis, Tier 1 alternative analysis, and final traffic report
03/21 - Present	**MOVEBR N. Sherwood Forest Extension (C-P Proj. No. 20-CP-HC-0014):** *Traffic Engineer* responsible for initial and final data collection, existing safety analysis, existing and no build HCS analysis, alternatives HCS analysis, and final traffic report
09/20 - Present	**MOVEBR College Drive Enhancements (C-P Proj. No. 19-EN-HC-0033):** *Traffic Engineer* responsible for calibrated Vissim model, existing and no build traffic analysis and alternatives analysis.
08/20 - 10-21	**I-10 & I-12 College Dr. Flyover Ramp Design-Build Project (S.P. H.013897.1):** *Traffic Engineer* responsible for calibrated Vissim model and traffic analysis, and Interchange Modification Report
12/19 – 03/20	**US 80: Intersection @ Bellevue Rd (S.P. No. 4400010504, T.O. No. H.014044.1):** *Traffic Engineer* responsible for Initial and final data Collection, existing safety analysis, and Chapter 1 of Final Report and signalized intersection analysis.
01/19 – 03/20	**District 07 Safety Investment Plan** *Traffic Engineer* responsible for data collection
10/18 – 04/19	**Kansas Lane – Garrett Road Connector and I-20 Impr (S.P. H.007300):** *Traffic Engineer* responsible for 90% Submittal Stage Draft Transportation Management Plan
10/17 – 01/18	**Move Ascension - 6 Intersection Improvement Studies for Ascension Parish:** *Traffic Engineer* responsible for data collection, intersection traffic operational analyses (Synchro, Vistro, and Sidra), safety analyses, warrant analysis, signal analysis, benefit/cost analyses, and traffic report preparation
08/16 – 01/17	**LA 433 at Carroll Road, Stage 0 Study considering construction of modern roundabout (St. Tammany P.O. S109476):** *Traffic Engineer* responsible for intersection operational analyses (Synchro and Sidra), warrant analysis.
02/16 – 04/18	**LA 22 (Rou Mar Nei Drive to 1st Street) (Contract No. 4400004064, T.O. No. H.011618.1):** *Traffic Engineer* assisted with corridor traffic operational analyses including traffic signal analysis.
09/15 – 01/17	**US 90 - US 61 - LA 611-9 Corridor Improvements (S.P. No. 4400004829, T.O. No. H.011646.5):** *Traffic Engineer* responsible for warrant analysis, safety analysis, signal inventory, travel time runs, initial and final data collection report preparation

16. Staff Experience:

09/15 – 05/16	**LA 19 Widening (LA 64 to Sunset Blvd.) - Stage 0 Study (S.P. No. 4400004012, T.O. No. H.011695.1):** *Traffic Engineer* responsible for data collection, warrant analysis, intersection operational analyses (Synchro), and traffic report preparation
02/15 – 12/17	**US 51 Business (I-12 to Coleman) Corridor Study (Contract No. 4400004064, T.O. No. H.011402.1)—US 51 Business Corridor Study:** Includes analysis of three roundabout geometry intersections. *Traffic Engineer* assisted with Corridor Operational Analyses
02/15 – 12/17	**US 51 (W University to I-55) Corridor Study (Contract No. 4400004064, T.O. No. H.011401.1):** Includes analysis of eight roundabout geometry intersections. *Traffic Engineer* assisted with Corridor Operational Analyses
01/15 – 06/15	**LA 3002, 16 & 1034 Corridor Study Phase 2 (Contract No. 4400004064, T.O. No. H.011645.1):** *Traffic Engineer* responsible for data collection and traffic signal analysis.
01/14 – 12/16	**LA 30 Stage 0, Gonzales, LA – Traffic & Safety Study (S.P. No. 44-1862, T.O. H.010572.1):** *Traffic Engineer* responsible for data collection, corridor traffic operational analysis (Synchro and Sidra), calibrated Vissim modeling, Stage 0 Traffic Report
01/14 – 03/16	**LA 73 Corridor Study (LA 74 to LA 621) Stage 0 Feasibility Study (Contract No. 4400003362, T.O. No. H.011160.1):** *Traffic Engineer* responsible for data collection, warrant analysis, corridor operational analyses (Synchro and Sidra), Stage 0 traffic report preparation
01/14 – 05/15	**Safety Study, LA 49 (Williams Blvd.,) Kenner, LA – Stage 0 / Safety Study (S.P. No. 4400001583, T.O. No. H.010570):** *Traffic Engineer* responsible for data collection, intersection operational signal analyses (Synchro), and Vissim modeling.
01/14 – 06/14	**Stage 0 Study, considering the extension of Edenborne Parkway to South St. Landry Road (approximately 1 mile) for Ascension Parish:** *Traffic Engineer* responsible for intersection operational analyses (Sidra).
Career History	Mrs. Howard joined Neel-Schaffer, Inc. in January 2014. Before joining Neel-Schaffer, Mrs. Howard worked as a Traffic Engineer for LADOTD District 62. She also worked as a Traffic Engineer Intern for LADOTD's Traffic Engineering Management Section in Headquarters. She worked on a variety of projects involving Traffic Engineering Studies, Signal Timing and Coordination, Corridor Studies and Transportation Management Studies. She is proficient in Traffic Engineering software such as Synchro, SIDRA, SimTraffic, VISSIM as well as LADOTD's **CAT Scan safety tool**. She also attended **Highway Safety Manual (HSM)** workshop, Highway Capacity Analysis Seminar, Roundabout Design Workshop, Traffic Signal Workshop, Synchro Training, Access Management Location and Design Course, Alternative Intersections/Interchanges Workshop, and Crash Reconstruction for Traffic Engineers Course. With Neel-Schaffer, Mrs. Howard has served as a project engineer for the noted traffic related LADOTD projects. Mrs. Howard is a certified Professional Traffic Operations Engineer (PTOE), a certified Road Safety Professional Level 1, and has completed LADOTD's **Traffic Engineering Process and Report (TEPR)** training**.**

Firm employed by Neel-Schaffer, Inc.					
Name	**Vijay Kunada, P.E., PTOE, PTP**			Years of experience with this firm/employer	16
Title	Vice President			Years of experience with other firm(s)/employer(s)	4.5
Degree(s) / Years / Specialization			BS/1999/Civil Engineering, MS/2001/Civil Engineering, MS/2002/Computer Science		
Active registration number / state / expiration date			No. 0032145 / LA / 03-31-2024, PTOE No. 2868 / 04-30-2025		
Year registered	2006	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Traffic Demand Modeling/Traffic Forecasting		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
07/20 - Present	**MRB South GBR: LA 1 to LA 30 Connector, S.P. No. H.013284, As** Mesoscopic Modeling Lead, Mr. Kunada is overseeing the development of regional mesoscopic model using Dynameq software and the analysis of proposed MS River bridge concepts under toll and non-toll options. Calibrated and validated 2019 base mesoscopic model and the 2042 no-build model were developed and approved by LADOTD and the team is currently working on finalizing the 2042 build models for 20 bridge alternatives. These developed models can be used for the analysis of any proposed roadway projects within the model study area, and both LA 429 & LA 74 corridors are included in this study area.
8/20 - Present	**I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA** (H.013897) Mesoscopic Modeling Lead for the analysis of Transportation Management Plan (TMP) for the proposed College Drive Ramp improvements. TMP was prepared for the various maintenance of traffic (MOT) phases. Vijay is leading the Dynameq (Mesoscopic Modeling) modeling for evaluating various MOT strategies and completed the modeling of MOT Phase 1.
09/19 – 12/20	**Monroe (LA) 2045 Metropolitan Transportation Plan (Connecting Ouachita 2045) (**State Project No. H.972323.1**):** As Project Manager, Mr. Kunada oversaw the development of performance based multi-modal long range transportation plan with detailed regional freight component. Tasks also included travel demand model development using big data sources, demographic forecasting, detailed multi-modal operational and safety needs analysis with robust public and stakeholder engagement element.
09/20 – 06/21	**MOVE 2046 Demographics and Travel Demand Model (TDM) Update** (State Project No. H.972353): Mr. Kunada managed the development of tour based regional travel demand model (TransCAD) along with a land use allocation model for scenario planning and development of regional demographics. This is the latest model that should be used for all traffic forecasting within the Baton Rouge MPO area. Mr. Kunada also managed the development of all TDMs for the Baton Rouge MPO area since 2006.
10/20 – 03/22	**Baton Rouge (LA) 2046 Metropolitan Transportation Plan (MOVE 2046) (**State Project No. H.972386**):** As Project Manager, Mr. Kunada oversaw the development of performance based multi-modal long range transportation plan with

	detailed regional freight component. MOVE 2046 tasks also include Congestion Management Process using big data sources and air quality conformity determination for the MPO with robust public and stakeholder engagement element.
08/16 – 10/18	**I-10 Mobile River Bridge and Bayway Widening, Mobile, AL (DPI-0030(005))** As IMR Lead, Mr. Kunada oversaw the development of IMR from data collection phase through the approval of IMR by FHWA on October 3, 2018. Tasks included traffic forecast for toll and non-toll options, analysis of the proposed Mobile River Bridge and the widening of the Bayway, as well as the proposed modifications to the interchanges within the study area including Diverging Diamond Interchange (DDI) configurations at three locations, VISSIM modeling for analyzing complex weave conditions and the development of IMR in accordance with ALDOT guidelines and FHWA Policy Points
03/17 - 12/17	**I-210 Bridge Traffic Impact Study, Calcasieu Parish, LA:** Project Manager. Managed a traffic study to develop a preferred alternative by analyzing the impacts of various I-210 bridge closure alternatives, and to develop recommendations to manage the expected congestion related to the planned rehabilitation of I-210 bridge over Prien Lake in Lake Charles, Louisiana. Developed project specific travel demand model to model and understand the impacts of bridge closure scenarios.
Career History	Mr. Kunada joined Neel-Schaffer, Inc. in 2006. Mr. Kunada serves as a project manager for local and regional transportation plans, traffic impact studies, travel demand models, safety studies, signal warrant analysis, traffic signal timing plans, corridor analysis, interchange modification and justification studies, traffic simulation models (mesoscopic and micro), demographic forecasting, and other traffic engineering related projects for both public and private developments. He has extensive experience in traffic modeling including census data analysis, travel demand model development using TransCAD and CUBE, mesoscopic modeling using Dynameq and TransModeler, demographic forecasting, region wide safety data analysis, external travel surveys, Highway Capacity Software, Synchro, SimTraffic, ISATe, VISSIM, TransModeler, Dynameq, COSRSIM, DynaSmart-P, Trip Generation, traffic studies for Environmental Impact Statement projects, intersection studies and corridor analysis. His experience with traffic operational analysis includes microsimulation, freeway mainlines, ramp merge/diverge areas, weaving segments, multilane & 2-lane highways and intersection operations Mr.Kunada served as project manager for 20 local and regional transportation plans, including Monroe MTP 2045, in the states of Louisiana, Mississippi, Alabama, Arkansas, Tennessee and Texas. Additionally, he has worked on developing transportation/infrastructure elements of comprehensive plans for City of Central, LA; Lafayette, LA; Alexandria, LA; Murfreesboro, TN; Louisville, KY.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Charles LeBoeuf, P.E.**			Years of relevant experience with this employer	8
Title	Project Engineer			Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			BS/2012/Civil Engineering MS/2014/Civil Engineering		
Active registration number / state / expiration date			PE 0042854 / LA / 03-31-2023		
Year registered	2018	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Traffic Study/Traffic Forecasting		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc.
02/21 – Present	**I-10 and I-12 College Flyover Ramp Design-Build Project:** This project documented the expected work zone impacts to I-10, I-12, and nearby surface arterials due to the construction of the College Drive Flyover. Mr. LeBoeuf analyzed the expected work zone impacts using mesoscopic modeling for the first phase of construction. The impacts included queueing, shifts in traffic volumes, and traffic speeds.
07/20 – Present	**MRB South GBR: LA 1 to LA 30 Connector:** This project uses mesoscopic modeling to analyze a proposed new crossing over the Mississippi River from LA 1 to LA 30 between I-10 and LA 70. Mr. LeBoeuf used the existing traffic data to develop peak period volumes and travel times which were to be used in the model calibration and validation. Mr. LeBoeuf developed the Base mesoscopic model by first expanding a previous mesoscopic model to include the West Bank of the Mississippi River from Baton Rouge to Donaldsonville, and then performing Dynamic Traffic Assignments using Origin-Destination (O-D) matrices. Afterwards, Mr. LeBoeuf used the existing traffic data to calibrate the Base model to better reflect existing traffic conditions. Once the Base model was finished, Mr. LeBoeuf then developed the No Build model, which included proposed highway improvements and an updated O-D matrix.
12/18 – 02/19	**I-635 LBJ East Alternative Technical Concepts, Dallas, TX:** Alternative Technical Concepts were proposed for three interchanges associated the I-635 LBJ East Project in Dallas, TX. For this project, Mr. LeBoeuf analyzed the freeway and frontage road elements, comparing the operational changes between the original build concept and the proposed Alternative Technical Concept.
06/18 – 04/20	**LA 328 Corridor Study and Plan, Breaux Bridge, LA:** This corridor study looked at several alternatives for the existing LA 328 (Rees Street) corridor between Latiolais Drive and East Bridge Street in Breaux Bridge, LA. Mr. LeBoeuf developed future peak hour volumes using the Lafayette, LA Metropolitan Planning Organization's Travel Demand Model results for the No Build scenario, which involved no improvements to study area roadways, and for three Build scenario alternatives, which incorporated extensions of two roadways within the study area. Mr. LeBoeuf performed intersection and roadway segment traffic analyses using the existing and future peak hour traffic volumes. Additionally, Mr. LeBoeuf estimated the expected number of crashes for future scenarios.

16. Staff Experience

01/17 – 08/18	**I-10 Mobile River Bridge Interchange Modification Report, Mobile, AL:** This project analyzed the impacts of the new I-10 bridge crossing the Mobile River to the south of the existing I-10 Wallace Tunnels in Mobile, AL. Mr. LeBoeuf developed future peak hour volumes using the Travel Demand Model results for Mobile and Baldwin Counties for the No Build scenario, which involved no improvements to study area roadways, and for the Build scenario, which incorporated the new I-10 Mobile River Bridge, a widened I-10 Bayway from Mobile to Daphne, AL, and interchange improvements along I-10 within the study area. Mr. LeBoeuf performed intersection traffic analyses using the existing and future peak hour traffic volumes and recommended the intersection geometry for study area intersections.
01/17 – 02/18	**Western Beltway Phase II Feasibility Study, Hattiesburg, MS:** This project determined the feasibility of extending MS 42 from I-59 to US 49 north of Hattiesburg, MS. Mr. LeBoeuf developed existing peak hour volumes and volume characteristics such as peak hour factors and heavy vehicle percentages. Mr. LeBoeuf developed future peak hour volumes using the Hattiesburg, MS Metropolitan Planning Organization's Travel Demand Model results for the No Build scenario, which involved no improvements to study area roadways, and for the Build scenario, which incorporated two roadway alignment alternatives. Mr. LeBoeuf performed intersection traffic analyses using the existing and future peak hour traffic volumes and recommended the intersection geometry for study area intersections. Mr. LeBoeuf analyzed crash data to determine crash trends and estimate the expected number of crashes for future scenarios. Mr. LeBoeuf also performed a benefit-cost analysis for each scenario using the expected number of crashes and expected changes in travel times.
10/16 – 01/17	**LA 1133 Realignment Study Carlyss, LA.** This realignment study analyzed the operational impacts of closing South Boudoin Road between Sayles Street and East Dave Dugas Road in Carlyss, LA as part of the expansion of the Westlake Chemicals Plant. Mr. LeBoeuf developed future peak hour volumes using the Lake Charles, LA Metropolitan Planning Organization's Travel Demand Model results for the No Build scenario, which kept South Boudoin Road open. Volumes for the Build scenario were developed by rerouting traffic from Boudoin Road to other roads within the study area. Mr. LeBoeuf performed intersection traffic analyses using the existing and future peak hour traffic volumes and recommended improvements for signalized and unsignalized study area intersections with the closure of South Boudoin Road.
Career History	Mr. LeBoeuf joined Neel-Schaffer in 2014 and has six years of experience in the engineering field, including 18 months as a Co-Op student with the Louisiana Department of Transportation and Development. Since joining Neel-Schaffer, Mr. LeBoeuf has provided a wide variety of transportation-related services, including travel demand modeling, GIS, crash analysis, and traffic analysis. He also has experience in the collection of turning movement counts for development projects.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Seth Popay, EI**			Years of experience with this firm/employer	2
Title	Project Engineer			Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			BS / 2019 / Civil Engineering		
Active registration number / state / expiration date			EI 0034729 / LA / 3-31-2023		
Year registered	2021	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Traffic Study/IMR		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
12/20 – Present	**College Dr. Enhancement Project (MOVEBR) Baton Rouge, LA:** *Engineer Intern.* Performing a traffic study along College Drive between Perkins Road and Bawell Street/Bankers Avenue including the I-10 Ramps in an effort to improve capacity and safety. Assisted with data collection including travel time runs and collecting crash reports. Also assisted with performing a safety analysis using LADOTD's Cat Scan safety tool.
1/21 – 3/21	**District 05 Safety Investment Plan – District 05, LA:** *Engineer Intern.* Assisted with safety analysis using LADOTD's Cat Scan safety tool. Also assisted with One Page Summary reports that were provided to the district.
12/20 – Present	**Proposed Ouachita Middle School TIS – Monroe, LA:** *Engineer Intern.* Assisted with data collection as well as trip generation and trip distribution.
1/21 – 12/21	**I-10 ITS Scott to Lake Charles, Statewide, LA:** *Engineer Intern.* Assisted with design and layout of a new ITS cameras along I-10 between Scott to Lake Charles. (MicroStation)
10/21 – Present	**FYA Signal Improvements, Lafayette, LA :** *Engineer Intern.* Assisted with the data collection for the signal inventory sheets. Also assisted with development of signal plans for the 28 intersections to include flashing yellow arrow signal heads as well as backplates.
3/21 – Present	**Synchronization and Communication Signal Rebuilds – Group 3, Baton Rouge, LA:** *Engineer Intern.* Assisted with data collection and peak hour determination. Performed a safety analysis of all 6 intersections using LADOTD's Cat Scan safety tool. Assisted with signal designs. (Synchro, Clearance Calcs, AutoTurn, MicroStation)
8/21 – Present	**Synchronization and Communication Signal Rebuilds Phase 2 – Group 4, Baton Rouge, LA:** *Engineer Intern.* Assisted with data collection and peak hour determination. Performed a safety analysis of all 6 intersections using LADOTD's Cat Scan safety tool. Assisted with signal designs. (Synchro, Clearance Calcs, AutoTurn, MicroStation)
1/22 – Present	**N 5th St – N 6th St Traffic Study, Monroe, LA –** *Engineer Intern.* Performed a safety analysis of the two corridors as well as a safety analysis of the major intersections along both corridors using LADOTD's Cat Scan safety tool.

16. Staff Experience

8/21 – 2/22	**LA 16 Access McDonalds/ Urgent Care TIS, Watson, LA –** *Engineer Intern.* Assisted with data collection including peak hour observations and TMC counts. Performed turn lane analysis and intersection analysis. (HCS software)
2/22 – Present	**Patriots Point Mixed Use Development TIS, Watson, LA –** *Engineer Intern.* Performed trip generation as well as trip distribution. Assisted with turn lane analysis and intersection analysis. (HCS software)
12/21 – 1/22	**LA 1256 Corridor Study, Lake Charles, LA –** *Engineer Intern.* Collected and reviewed crash reports. Assisted with safety analysis for three intersections along LA 1256 corridor using LADOTD's Cat Scan safety tool.
Career History	Mr. Popay is a new graduate Engineer Intern with experience in multiple traffic and safety engineering software packages including HCS, SYNCHRO, Vissim, SIDRA and LADOTD's **CAT Scan safety tool**.

Firm employed by Neel-Schaffer, Inc.					
Name	**Hussein Skaikay, PE, RSP**			Years of relevant experience with this employer	6
Title	Project Engineer			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			BS / 2001 / Civil Engineering; MS / 2004 / Civil Engineering; PhD / 2008 / Civil Engineering		
Active registration number / state / expiration date			PE 0042470 / LA / 03-30-2024		
Year registered	2018	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Safety Analysis/Traffic Study		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
06/20 - present	**I-10/12 College Drive Flyover Design Build (H.013897.1), Baton Rouge, LA**: *Traffic Engineer.* Performing a traffic study at the I-10/12 merge in an effort to improve capacity and safety. Assisted with uncalibrated VISSIM model. Assisted with safety analysis.
04/20 – 07/21	**District 05 Safety Investment Plan (Contract No. 4400010504, T.O. No. H.014295.1) District 05, LA:** *Traffic Engineer*. Obtained crash history for study locations and utilized LADOTD's CAT Scan software for pattern recognition and crash report review. Assisted in cost-benefit analyses. Also assisted with report preparation.
09/21 - present	**Harding Blvd at I-110 (CP Proj. No. 20-CP-HC-0016), Baton Rouge, LA**: *Traffic Engineer.* Performing a traffic study along Harding Boulevard between Rosewood Street and Merle Gustafson Drive including the I-110 Ramps in an effort to improve capacity. Assisted with data collection and Initial Data Collection Report. Assisted in safety analyses, crash history, CAT Scan analysis, collision diagrams, and safety appendix.
09/20 - present	**College Drive Enhancement Project (CP Proj. No. 20-CP-HC-0033), Baton Rouge, LA**: *Traffic Engineer.* Performing a traffic study along College Drive between Perkins Road and Bawell Street/Bankers Avenue including the I-10 Ramps in an effort to improve capacity and safety. Assisted with data collection including peak period observations and travel time runs. Also performed safety analysis along the College Drive corridor.
02/19 – 04/20	**District 07 Safety Investment Plan (Contract No. 4400010504, T.O. No. H.013826.1) District 07, LA:** *Traffic Engineer*. Obtained crash history for study locations and utilized LADOTD's CAT Scan software for pattern recognition and crash report review. Also assisted with report preparation.
12/17 – 04/19	**District 08 Safety Investment Plan (Contract No. 4400010504, T.O. No. H.013264.1) District 08, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
5/14 – 3/16	**LA 73 Corridor Study, Ascension Parish, LA:** Observed existing conditions in the field and potential problems along the LA 73 Corridor, from LA 74 to LA 621. Used the turning movement counts to create an excel spreadsheet. Used the spreadsheet to balance the existing volumes. Mr. Skaikay performed crash analysis, which involved identifying potential safety problems and producing crash diagrams to visually display where the crashes occurred. He used the Synchro analyses software to create the roadway network geometry and show level of service and delay.

02/16 – 04/18	**LA 22 Corridor Study (Rou Mar Nei Drive to 1st Street), S.P. No. 44-4064, T.O. No. H.011618.1, LADOTD, Ponchatoula, LA.** Mr. Skaikay assisted with Intersection Operational Analyses (Synchro) for a traffic study to evaluate corridor improvements along LA 22 as well as interchange concepts at I-55. A TIER analysis was performed at the interchange of I-55 at LA 22 to evaluate various interchange configurations. The corridor analysis included HCS analysis to evaluate RCUT and roundabout corridor concepts.
02/16 – 10/17	**LA 6 Feasibility Study, S.P. No. 44-4402, T.O. No. H.012307.1, LADOTD, Natchitoches, LA.** Mr. Skaikay assisted with Data Collection (Traffic Counts), Signal Warrant Analyses, Intersection Operational Analyses (Synchro and Sidra), Traffic Report Preparation for the Stage 0 Study, including a comprehensive safety analysis and traffic study for the purpose of analyzing existing and future conditions along the LA 6 corridor between Parish Road 542 west of I-49 to LA 3278 east of I-49, including the LA 6 interchange with I-49 to determine feasible alternatives that will preserve and enhance mobility and safety.
06/15 – 12/16	**LA 10 Improvements, S.P. No. H.011280, LADOTD, Bogalusa, LA.** Mr. Skaikay was responsible for Data Collection (Traffic Counts), Safety Analyses, Roadway Analyses (HCS), Intersection Operational Analyses (Vistro), Traffic Report Preparation.
03/19 – 11/19	**District 61 Signal Timing Upgrade Study, S.P. No. 44-8851, LADOTD, Baton Rouge, LA.** Mr. Skaikay was responsible for Data Collection (Traffic Counts, Travel time runs, etc), Proposed Traffic Signal Timings, and Proposed New Traffic Signal Inventories (TSIs).
08/16 – 07/19	**US 425 / US 84 Corridor Study, S.P. No. 44-4064, T.O. No. H.011930.1, LADOTD, Vidalia, LA - Ferriday, LA.** Mr. Skaikay assisted with Data Collection (Traffic Counts and Peak Hour Observations), Traffic Forecasting, Safety Analyses, Corridor Operational Analyses (Synchro, Sidra), Warrant Analyses, Traffic Report Preparation.
01/17 – 02/18	**US 80 Traffic Control Signal Upgrade, S.P. No. 44-4712, LADOTD, Shreveport, LA.** Mr. Skaikay assisted with Data Collection (Traffic Counts and Travel Time Runs), Signal Warrant Analyses, Intersection Operational Analyses (Synchro), Signal Designs.
06/15 – 01/18	**LA 39/LA 46/LA 47 Corridor Signal Improvements, S.P. No. 44-4829, T.O. No. H.011514.5, LADOTD, New Orleans, LA.** Mr. Skaikay assisted with Intersection Operational Analyses (Synchro), Signal Design.
Career History	Mr. Skaikay joined Neel-Schaffer in 2016 and has eight years of experience in the engineering and survey fields. For Neel-Schaffer, he has provided services for a wide variety of transportation and traffic-related projects, including traffic impact studies, traffic signal inventory traffic signal studies, and traffic signal design, corridor studies and a variety of safety projects. Mr. Skaikay is trained and knowledgeable in MicroStation, Synchro, Vistro, IHSDM, and **LADOTD's CAT Scan safety tool**. Mr. Skaikay is a certified **Road Safety Professional (RSP1)**.

16. Staff Experience:

Firm employed by Vectura Consulting Services, LLC					
Name	Sheelagh Brin Ferlito, PE, PTOE			Years of experience with this firm/employer	6
Title	Supervisor			Years of experience with other firm(s)/employer(s)	27
Degree(s) / Years / Specialization			B.S. / 1988/ Civil Engineering		
Active registration number / state / expiration date			PE.0025383 / LA 9/30/2023		
Year registered	1993	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Supervisor for Safety		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/19 – current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA)** Brin is the project manager for the **temporary and permanent traffic signal plans** for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by Louisiana DOTD. She coordinated the detour plans based on the sequence of construction as part of the **Level 2 Transportation Management Plan (TMP**).
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA** Brin developed a Pedestrian Crosswalk Study and **Traffic Signal Construction Plans** for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17 - 04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA** Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, **analyzed 3-year intersection crash data,** and developed signal timing for pedestrians to cross the street. Her report included **alternative analyses** options for intersection improvements. The recommended alternative was advanced through the development of traffic signal upgrade plans.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** Brin was the project manager of a formal DOTD traffic study for the new alignment of LA 3241 with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. The traffic study included **alternative analyses** to improve the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. Specific access management features examined included intersection improvements, median openings, and U-turns, spacing and type of openings, signalization of intersections and roundabouts. Brin developed the **safety analyses report** for the project
01/17 – 07/17	**Stage 0 Feasibility Minnesota Park Road Improvements (Tangipahoa Parish, LA)** Brin was the task leader for a **safety analysis** and traffic signal timings of a **Stage 0 Feasibility Study**. Brin utilized Vistro software to develop the signal timings that were entered in

	Sidra for a Highway Capacity Manual Analyses. Brin also assisted Laurence with the traffic data collection and provided Quality Control review of the traffic study.
02/17 - 10/17	**Stage 0 Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA)** Brin developed the **safety analyses** for a **Stage 0 Study** for 4 intersections in the Mandeville area. The study was based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Brin assisted collecting 7-day, 24-hour counts w/ Classification, turning movement counts for peak periods and speed data for mainlines. She developed signal timing in the PTV Vistro software. The signal timings were then used in Sidra to complete the HCM analyses. Brin provided a quality control review of the traffic report.
06/16 - 09/17	**H.004490 Stage 0 Roundabout Studies (Lafayette Parish, LA)** Brin developed sections of a **Stage 0 Feasibility Study** for roundabouts the conformed to DOTD EDSMs and Traffic Engineering Manual Section 20.2 at ten intersections in the Lafayette area. Brin, along with Laurence, collected 7-day, 24-hour counts w/ classification, turning movement counts for AM and PM peak periods and speed data for mainlines. Brin provide a QC review of the Sidra analyses and developed traffic signal timing for 3 intersections for Years 2019 and 2039, AM & PM peak hours and **developed a crash analysis** as defined in Section 20.2 of TEM. CMF factors were identified for the preferred alternative to predict the number of crashes that could be eliminated. Brin provided a QC review of the final draft.
08/12 - 05/13	**H.009998 LA 935 Safety / Stage 0 Study (Ascension Parish, LA)** Brin developed the safety analyses report for the **Stage 0 Study**. She coordinated and collected existing traffic data using Jamar equipment. She used HCS and **Interactive Highway Safety Design Model** (IHSDM) Software for the analyses. She developed MicroStation drawings with scaled aerials to show crash diagram locations as well as proposed alternate layouts. Histograms developed in Excel were used to show the comparison of various crash conditions with statewide averages. Crash records for 3 years were obtained from crash1 database.
01/09 – 03/12	**S.P. No. 700-99-0332 US 165 Corridor Study Pineville** Brin was the Senior Project Engineer for a corridor traffic study in Pineville, LA. The project included traffic data collection, forecast traffic volume development, existing analyses and proposed **alternative analyses** that included improved traffic signal timings. She used Highway Capacity Manual software, Sidra software and VISSIM traffic simulation software to evaluate existing and proposed alternative conditions. Access management principles were applied to the proposed alternatives.
08/07 - 01/08	**S.P. No. 700-99-0332, T.O. N0. 701-65-0868, I-12 VISSIM Modeling (East Baton Rouge Parish)** Brin reviewed collected traffic data, historical traffic data and observed queues on I-12 and the interchanges between Airline Highway and O'Neal Lane during the peak periods. She developed peak hour traffic volume maps for the study area and then developed the VISSIM Model for the peak hours that included static routing, demand traffic volumes, lane geometry, conflict areas, and priority rules to replicate existing conditions. She also developed VISSIM models for **alternative analyses** options to the O'Neal Lane ramps.
03/05 – 11/05	**Airline Hwy Widening SPN 700-99-0332 (Baton Rouge, LA)** Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included traffic signal equipment, **signal synchronization timing**, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.

16. Staff Experience:

Firm employed by Vectura Consulting Services, LLC			
Name	Laurence Lucius Lambert, II, PE, PTOE, PTP	Years of experience with this firm/employer	6
Title	Supervisor	Years of experience with other firm(s)/employer(s)	18
Degree(s) / Years / Specialization		B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010	
Active registration number / state / expiration date		PE.0029901 / LA / 3/31/2024	
Year registered	2001	Discipline	Civil
Contract role(s) / brief description of responsibilities		Traffic Analysis QC	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
02/21 - 03/21	**H.013256.5 I-10 ITS Scott to Lake Charles (Southwest Louisiana)** Laurence was the lead traffic engineer for a Level 2 **Traffic Management Plan** (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
02/21 – 01/22	**LA 67 (Plank Rd) Corridor Enhancement – Dawson Street to Harding Blvd (Baton Rouge, LA)** Laurence was the principal in charge for the MOVEBR project on a state route (LA 67). Laurence in cooperation with DOTD and the City-Parish of East Baton Rouge wrote the scope for a bicycle and pedestrian enhancement project. The scope was written to conform to the TEPR process. Laurence provided all **Quality Control (QC)** and project management functions of the project.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
10/17 - 10/18	**H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA)** Laurence was the lead transportation engineer for a **Corridor Planning Study** for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to **develop growth rates and design year volumes**. Laurence then **performed Highway Capacity Manual analysis** for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.
02/17 - 10/17	**STPN 17-023 Stage 0 Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA)** Laurence developed a **Stage 0** Feasibility Study for roundabouts at 4 intersections in Mandeville area. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for peak periods and speed data for mainlines. Laurence coordinated with the New Orleans Regional Planning Commission to develop growth rates and design year volumes from the TransCAD model. He performed traffic signal warrants analyses, performed a Sidra unsignalized, signalized and roundabout analyses.

06/16 - 09/17	**H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA)** Laurence performed a **Stage 0 Feasibility Study** for roundabouts at ten intersections in the Lafayette area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Laurence, along with Brin, **collected 7-day, 24-hour counts w/ classification, turning movement counts for peak periods and speed data for mainlines**. Once the traffic data was collected, Laurence performed **traffic signal warrants analyses**, performed a Sidra unsignalized, signalized and roundabout analyses. After the analyses were completed, Laurence developed a report that captured the results.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** Laurence was the lead traffic engineer for a **DOTD traffic study** for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, **collected 7-day, 24-hour counts** w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM **traffic simulation model** of the preferred alternative.
01/17 – 07/17	**Stage 0 Feasibility Minnesota Park Road Improvements (Tangipahoa Parish, LA)** Laurence was the task leader for traffic data collection and intersection analyses of a **Stage 0 Feasibility Study**. Laurence utilized the Highway Capacity Manual Analyses software Sidra software to perform an alternative analysis. Laurence was the principal author of the traffic study for the **Stage 0**.
03/10 - 11/11	**S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA)** This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the **Stage 0**, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).
11/09 – 08/10	**I-12 at Millerville Road Interchange Modification Request (Baton Rouge, LA)** The scope of this project consisted of preparing and obtaining environmental clearance for the proposed future roadway and signal improvements at the I-12 / Millerville Road Interchange. Laurence prepared documents and obtained environmental clearance for all on-site work and held public meetings. Laurence developed all HCS analyses and a micro-simulation model. Laurence also participated in several public meetings to satisfy the environmental clearance requirements.
04/04 - 09/06	**Stage 0 I-10 at Pecue Lane Interchange Justification Study (Baton Rouge, LA)** Laurence was the lead traffic engineer for a **Stage 0** traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC **TransCAD model** growth rates. Using HCS, Laurence **analyzed signalized and unsignalized intersections**, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS.
04/04 - 12/04	**I-10 Frontage Roads, Picardy Interchange, Bluebonnet Siegen (Baton Rouge, LA)** Laurence provided the traffic analysis for a highly unique reconfiguration of interstate ramps that included frontage roads and an overpass of I-10 for new an interchange at Picardy. HCS and VISSIM were the primary analysis tools for the analysis. As part of the design team that developed the concept for this project, Laurence performed **feasibility studies**, developed design criteria, and coordinated with city, state and federal agencies for approvals as well as gathered public input. Laurence prepared traffic signal timings and designs that included cost estimates for the project.

16. Staff Experience:

Firm employed by Vectura Consulting Services, LLC					
Name	Prasanth Malisetty, PE, PTOE, PTP, RSP1		Years of experience with this firm/employer	1	
Title	Senior Project Engineer		Years of experience with other firm(s)/employer(s)	17	
Degree(s) / Years / Specialization			B.E. / 2003/ Civil Engineering; M.S. / 2004/ Civil Engineering		
Active registration number / state / expiration date			PE.0035792 / LA / 3/31/2023		
Year registered	2010	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Senior Project Engineer for Data Collection, Safety and Traffic Analysis QC		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
02/21 – 01/22	**LA 67 (Plank Rd) Corridor Enhancement – Dawson Street to Harding Blvd (Baton Rouge, LA)** Prasanth is the project manager for the MOVEBR project on a state route (LA 67). Prasanth, along with Reece, performed the field check observations per the **TEPR process**. Prasanth also read the crash reports and provided a summary of each crash. Prasanth was the lead author for Chapter 1 of the traffic study.
12/18 – 7/20	**H.002297 LA 37 Sullivan Road to Liberty Road, Baton Rouge, LA.** Prasanth was the project manager to develop feasible roadway improvement that will improve operation and increase safety along the LA 37 corridor. The project included **data collection, development of growth rates, existing and future traffic analyse**s. Prasanth was responsible for traffic forecasting for no-build and future alternatives using the CRPC travel demand models. Also, performed the **existing and future traffic analysis** and propose potential alternatives to mitigate existing deficiencies.
11/17 – 12/18	**H.013264 District 08 Safety Investment Plan.** Prasanth was the project engineer responsible for preforming districtwide **safety analysis** and preliminary engineering studies for various locations considered high potential for safety improvements. Responsible for evaluating crash statistics to identify possible roadway issues by using appropriate safety analysis tools and recommend potential operation safety countermeasures. Developed Countermeasure Evaluation Tool (CET) tool which aid in determining total crash reduction for each proposed countermeasure with associated cost savings and perform benefit / cost analysis.
10/16-12/18	**H.012685 LA 385 Ryan Street Feasibility Study, Lake Charles, LA.** Prasanth was the project engineer responsible for **developing feasible alternatives** to preserve / enhance mobility and safety along the corridor. The 1.8-mile corridor study area includes 22 intersections and 133 driveways. The project included **data collection, safety / crash review, traffic forecasting, developing alternatives, analysis of existing and proposed conditions and benefit / cost analysis**. The future year traffic for the proposed roadway alternatives was forecasted utilizing IMCAL travel demand model.
01/16 – 11/17	**H.012307 LA 6 Stage 0 Feasibility Study, Natchitoches, LA**. Prasanth was the project engineer for a **Stage 0** Feasibility study and develop short-term and long-term solutions to improve safety and mobility along the corridor. Responsible for safety analysis and alternatives analyses which includes roundabouts, R-CUT and signalized intersection using Synchro, Sidra and Vissim software.
06/15 – 12/16	**H.011280 LA 10 Stage 0 Feasibility Study, Bogalusa, LA.** Prasanth was the project engineer responsible for performing **Stage 0** Feasibility study along the corridor. Responsible for traffic forecasting, safety analysis and developing alternative concepts to improve corridor operations. NORPC regional demand model output was utilized to determine traffic distribution pattern in the region and to forecast future year traffic volumes along the study area.

02/15-12/16	**H.011403 LA 1208-3 Corridor Study, Alexandria, LA.** Prasanth was the project engineer responsible for developing and examining the concepts that shall improve the safety and efficiency of the corridor. The **proposed alternatives** included modifying roadway characteristics, intersection capacity improvements and roundabouts. Responsible for **safety analysis and alternatives analyses** that included roundabouts, and signalized intersection using Synchro and Sidra.
6/11 – 8/12	**H.002397 LA 16 – I-12 Interchange, Livingston Parish, LA.** Prasanth was the project engineer responsible for traffic forecasting, interchange analysis using **HCM and intersection analysis** using Synchro. Responsible for developing multiple interchange alternative concepts and analysis. The regional impact on the roadway network for the proposed interchange alternatives was determined utilizing CRPC travel demand model.
01/11 – 04/12	**H.005734 LA 447 Corridor Study, Walker, LA.** Prasanth was the project engineer responsible for **developing alternatives** to mitigate existing corridor congestions and enhance safety and mobility along the corridor. Developed microsimulation models using Vissim to perform alternative analyses which includes eight roundabout geometry intersections. The 10.2-mile study area includes 60 intersections and 64 driveways.
1/11 – 1/12	**H.008915 LADOTD, Stage 0 Study for LA 3234 Extension, Hammond, LA.** The **Stage 0** project was conceptualized by DOTD to support intermodal connectivity at Hammond Northshore Regional Airport. Prasanth was the project engineer responsible for traffic forecasting, and traffic analysis for no-build and proposed routing alternatives. A new regional travel demand model was developed for the city of Hammond to estimate future travel demand throughout the region associated with proposed project routing alternatives.
09/10 – 2/12	**S.P. No. 700-99-0447 US 190 Superstreet Study, Covington, LA**. Prasanth was the project engineer responsible for **performing corridor study** and develop solutions to improve mobility along the corridor. The alternatives analyses included R-CUT and signalized intersection using Synchro and SimTraffic. Responsible for data collection, travel time runs and intersection analysis.
12/18 – 7/20	**H.012018 LCG Adaptive Traffic Signal System, Lafayette, LA.** The project was to develop an Adaptive Traffic Signal network for the Lafayette Consolidated Government, which involved upgrading 190 traffic signal controllers. In addition, 79 traffic signals will be upgraded to become adaptive traffic signals. This will be the largest adaptive traffic signal system installed within the state of Louisiana. Prasanth was the project engineer responsible for overseeing field inspection and **develop signal design plans**
8/10 – 2/18	**LADOTD Traffic Engineering Contracts – Statewide, LA| Project Engineer.** As a project engineer for numerous task orders for Signal Timing Studies and Designs, Prasanth was responsible for coordinating **data collection tasks, intersection analysis, crash analysis,** developing coordinated signal timing plans and field implementation / fine tuning along 27 corridors throughout statewide which involved 264 intersections. Following are the list of corridors: • District 04; LA 1, LA 526 & US 171, Shreveport, LA; LA 3, LA 3105 & LA 72, Bossier, LA – 110 intersections, 7 corridors • District 02; LA 3040 & LA 57, Houma, LA; LA 20, Thibodaux, LA; US 61, New Orleans, LA – 44 intersections, 4 corridors • District 62; US 11, Slidell, LA; LA 19, Baker, LA; LA 44, Gonzales, LA; LA 3124 & LA 60, Bogalusa, LA; LA 10 Franklinton, LA; LA 16, Amite, LA; LA 38, Kentwood, LA; LA 25, Folsom, LA – 68 intersections, 9 corridors • District 58; US 425, Vidalia & Ferriday, LA – 11 intersections, 2 corridors • District 08; LA 1208-03, US 71 & LA 28 – 21 intersections, 3 corridors District 07; US 190 & US 171, DeRidder, LA – 10 intersections, 2 corridors

16. Staff Experience:

Firm employed by	Vectura Consulting Services, LLC		
Name	Reece Rodrigue, PE, PTOE	Years of experience with this firm/employer	2
Title	Project Traffic Engineer	Years of experience with other firm(s)/employer(s)	7
Degree(s) / Years / Specialization		B.S. / 2013/ Civil Engineering	
Active registration number / state / expiration date		PE.0042074 / LA / 3/31/2024	
Year registered	2017	Discipline	Civil
Contract role(s) / brief description of responsibilities		Project Engineer for Data Collection, Safety and Traffic Analysis QC	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
02/21 – 01/22	**LA 67 (Plank Rd) Corridor Enhancement – Dawson Street to Harding Blvd (Baton Rouge, LA)** Reece performed the geometric field checks along with Prasanth. Reece then captured the geometric field data in figures developed in CAD per the **TEPR process**.
02/21 – Current	**College Drive Corridor Enhancement – I-10 to Perkins Road (Baton Rouge, LA)** Reece is the task leader for developing the raw and final volumes in conformance with **TEPR** since the I-10 interchange ramp intersections are part of the project limits. The Vectura team collected 7-day, 24-hour counts, turning movement counts with queue observations, travel time runs and geometric field checks. Reece assembled the raw counts from the team members and applied the unmet demand volumes to develop the final volumes. He also checked the final volumes against the 48-hour tube counts. Reece also developed figures that reported the geometric field checks.
4/20 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA)** Reece was responsible for the production of the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. He assisted Brin with the **traffic study** that formed the basis of the design report. Reece assisted with the development of forecast volumes and HCM intersection analyses.
04/16 – 09/17	**H.011670.1 & H.011670.2 Loyola Interchange Modification Request (Kenner, LA)** Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Dr. Interchange. He was an active member in collecting vehicle travel time data and processing the data. He also aided in collecting vehicle queues at the study intersections. He also assisted in the Vissim model calibration.
11/15 – 12/16	**H.011849 Veterans Boulevard Corridor Stage 0 Feasibility Study (Jefferson Parish, LA)** Reece was the project manager for the **Stage 0** Corridor Retiming Study along Veterans Blvd from Lake Ave to Massachusetts Ave. He evaluated turning movement counts and the existing traffic signal timings and plans for the 31 signalized intersections along the corridor. He conducted travel time analyses through the corridor during morning, midday, and afternoon peak periods to determine the current flow of traffic through the corridor. He used calculations recommended by ITE to determine the clearance intervals of each intersection along the corridor. For the purposes of analyzing each intersection along the corridor, he assisted in producing a model of the corridor using the traffic signal timing optimization software Synchro 8. He assisted in implementing the new signal timings into the traffic signal controllers of the intersections. Once implementation was complete, he conducted travel time analyses using the new traffic signal timings. He also assisted in drafting the final report.

16. Staff Experience:

Firm employed by Vectura Consulting Services, LLC					
Name	Kristen Gahagan Farrington, PE, PTOE			Years of experience with this firm/employer	1
Title	Project Traffic Engineer			Years of experience with other firm(s)/employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2014/ Civil Engineering		
Active registration number / state / expiration date			PE.0042785 / LA / 3/31/2023		
Year registered	2016	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Engineer for Data Collection, Safety and Traffic Analysis QC		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/21 – 02/22	**H.013267 Capital Area Pathways Project (Baton Rouge, LA)** Kristen was a project engineer for a traffic study to evaluate trail crossings at three state routes that required DOTD approval. The **traffic design study** included traffic data collection, safety analysis, existing conditions analysis and alternative analysis. Laurence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA guidance to develop the most effective trail crossing alternatives.
02/21 – 01/22	**LA 67 (Plank Rd) Corridor Enhancement – Dawson Street to Harding Blvd (Baton Rouge, LA)** Kristen developed **crash diagrams** in CAD to identify any correctable crash types for the project limits on LA 67 (Plank Road).
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish)** Kristen was the task leader for the preparation of a **Stage 0** study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the **Stage 0** Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 (LA 74 to LA 621) (Ascension Parish)** Kristen was the designer responsible for concept development, report writing, and impact analysis for a **Stage 0** study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish)** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this **Stage 0** Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
04/19 – 6/21	**H.013817.1 A 117 Improvements Stage 0 (Vernon and Natchitoches Parishes)** Kristen served as project engineer responsible for a **Stage 0** study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic

	locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the **Stage 0** report and coordinated with stakeholders and local agencies to ensure purpose and need of project is met.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish)** Kristen was the task leader for the preparation of a **Stage 0** study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the **Stage 0** Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.

Firm employed by	ARCADIS		
Name	Gabriel Arias, PE	Years of relevant experience with this employer	<1
Title	Roadway Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		BS / 2013 / Civil Engineering, Auburn University	
Active registration number / state / expiration date		Professional Engineer – PE. 0042599 / LA / Exp. 09/2022	
Year registered	2018	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities.		Roadway Design	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Arias has more than eight years' experience performing complex geometric design on roadway including H&V alignment, hydraulic design CDP's and open ditches, turn lane design, striping/signage, structural design analysis and QC, traffic management plans, and roadway plan production.
06/16 – 02/17	**LA 435 to LA 40/LA 41, LADOTD, St. Tammany Parish, LA.** *Project Engineer*. The project calls for the construction of a new four-lane highway connecting I-12 to Bush, Louisiana, in St. Tammany Parish. The new roadway is approximately 19.8 miles in length and begins at LA 434, north of the existing LA 434 interchange with I-12, and traverses in a northeasterly direction until encountering an abandoned rail corridor. It then follows the rail corridor terminating at the LA 21/LA 41 intersections near Bush, Louisiana. Assisted with roadway geometric design including H&V alignment, hydraulic design for storm drains, CDP's and open ditches, structural design analysis and QC, Traffic management plans and roadway plan production for the new 5.5 mile 4-lane RA-3 roadway from LA 435 to Bush, LA.
07/13 – 06/16	**Bayou Mercier Road/Berard Canal Bayou, LADOTD, St. Martin Parish, LA.** *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a quad-beam concrete structure.
07/13 – 02/17	**Derrick Road Bridge, LADOTD, Iberville Parish, LA.** *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
07/13 – 02/17	**Jude & Placide Road Bridges, LADOTD, Vermilion Parish, LA.** *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridges timber structures with slab span, concrete structures.
07/13 – 10/16	**City of Thibodaux Overlay Projects, LADOTD, Lafourche Parish, LA.** *Project Engineer*. Project required chip sealing, joint & crack sealing, resurfacing and complete pavement replacement for four separate locations in the city of Thibodaux, LA. The goal was to prolong the life of the existing pavements by preventing future deterioration and/or rehabilitating the existing

	pavements. Assisted with roadway geometric design including horizontal alignments, selection of treatment type for pavements, hydraulic design for storm drains, CDP's and open ditches and roadway plan production.
09/13 – 02/17	Pecan Island Road Bridge Over The Chenal, LADOTD, Pointe Coupee Parish, LA. *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a customized slab span, concrete structure.
07/13 – 02/17	Gracie Lane Bridge, LADOTD, Iberville Parish, LA. *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
04/14 – 02/17	Lajaunie Rd/Lateral 1 Bayou St. LADOTD, Clair, Lafayette Parish, LA. *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
11/15 – 02/17	Babin Rd./Bayou Narcisse, LADOTD, Ascension Parish, LA. *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab span, concrete structure.
10/18 – 11/19	I-10 to Loyola Dr. Interchange, Jefferson Parish, LA. *Project Engineer*. Proposal effort for adapting the interchange at Loyola Drive to handle traffic flowing to and from the new passenger terminal at Louis Armstrong International Airport. Assisted with roadway geometric design, QC, and Plan production for proposal.
06/18 – 10/19	Mid-Barataria Diversion Design, Plaquemines Parish, LA. *Project Engineer*. Planning, engineering and design services for the creation of the Mid-Barataria sediment diversion basin to strategically reintroduce sediment and freshwater inputs into the Barataria Basin. Assisted with detour roadway alignment creation/selection, TTC planning, and roadway plan preparation.
09/13 – 02/17	West 15th Avenue/Mile Branch, City of Covington, St. Tammany Parish, LA. *Project Engineer*. Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing bridge timber structure with a customized slab span, concrete structure. Included an integral pedestrian/bicycle path and custom barrier to separate pedestrians and vehicles.
02/18 – 04/18	US 377 Cresson Relief Route, TXDOT, TX. *Project Engineer*. TXDOT will construct a three-mile relief route west of the city of Cresson. The relief route will be a new four-lane divided highway on US 377 beginning one mile south of the intersection of US 377 and SH 171 and ending one mile north of the same intersection. Assisted with plan creation including H&V alignment review, TTC plans, construction quantity estimation and roadway plan production for the realigned roadway.
06/17 –10/17	Hwy 270 Widening Connecting Arkansas Program (CAP), CA0607, Garland County, AR. *Project Engineer*. Contracted by AHTD, as part of their Connecting Arkansas Program (CAP), to assist with the design of widening approximately three miles of Hwy 270 in Garland County. The proposed roadway is 4 lanes with a painted median from Hwy 270 to Black Snake Road, then 5 lanes curb & gutter from Black Snake Road to Hwy 227. Responsibilities include the drainage design and plan production, wetland delineation and maintenance of traffic plans. Tasks include preliminary site visits, developing hydraulic and hydrologic models for the pipes, submittal of Hydraulic Report, drainage ditch design, maintenance of traffic plan submittals and wetlands report.

16. Staff Experience:

Firm employed by	ARCADIS		
Name	Greg Badon	Years of relevant experience with this employer	10
Title	NEPA Specialist / Environmental Lead	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization		BS / 2008 / Natural Resource Management, Louisiana State University	
Active registration number / state / expiration date		United States Army Corps of Engineers (USACE) 1987 Manual Wetland Delineation Training (Completed 2012); Traffic Control Technician – LA Specific (Completed 2015); National Highway Institute (NHI) Course 142073 Applying Section 4(f). Putting Policy into Practice (Completed 2017); NHI Course 142005 National Environmental Policy Act (NEPA) and the Decision-making Process (Completed 2017).	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Environmental Scientist	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Badon has an extensive background conducting and/or reviewing all components and technical studies required by NEPA. He has been responsible for Environmental Impact Statement, Environmental Assessment, and CE document preparation, highway-traffic noise analysis, socioeconomic impacts, existing conditions documentation, wetland delineations/biological resource surveys, property-owner research, and addressing public comments through agency coordination, public outreach, and involvement. By having the experience to know what is required and expected under NEPA, he can effectively manage projects as they move though the NEPA process.
05/12 – 11/21	**LADOTD, US 165 Connector and Ouachita River Bridge Environmental Impact Statement, Ouachita Parish, LA.** *Deputy Project Manager* responsible for Section 4(f) resource documentation and investigation, property owner information, coordination with local agencies and stakeholders, an exhaustive wetland inventory/National Wetlands Inventory ground-truthing investigation, biological resources and Threatened and Endangered Species review/documentation, and a wetland delineation. Also coordinated with Louisiana Department of Wildlife and Fisheries on property exchange and plans for the Chauvin Swamp Tract Wildlife Management Area.
03/17 – Ongoing	**LADOTD, I-49 South (Ricohoc to Berwick) Supplemental Environmental Impact Statement, St. Mary Parish, LA.** *Project Manager* following the December 2006 Record of Decision, LADOTD determined that the estimated cost for this segment of I-49 exceeded available resources and the corridor. Efficiencies would need to be developed to upgrade the existing US-90 to Interstate I-49 by constructing a safe corridor while minimizing impacts to businesses, residents, wetlands, and farmlands flanking the corridor. Responsible for project schedule, budget, agency coordination and project updates. Also responsible for public/stakeholder outreach & oversight, existing conditions documentation, field work, purpose and need development, and completion of LADOTD's Environmental Checklist.
12/13 – On Hold	**LADOTD, Pete's Highway / I-12 EA / IMR and Alternatives, Livingston Parish, LA.** *Project Manager.* Known regionally as one of the most congested interchanges of I-12, Range Road (LA 3002) has been the bane of commuters for years. Responsible for public outreach and coordination, LADOTD Environmental Checklist, acquisition of property owner info and report documentation.

05/13 – On Hold	LADOTD, Florida Avenue Environmental Assessment, Orleans and St. Bernard Parishes, LA. *Project Manager and Public Information Officer* responsible for public/stakeholder outreach oversight, agency coordination. Coordinated an effort for extensive public meeting notifications and outreach. Oversaw the distribution of door-hangers, radio announcements, advertisements in community papers, press releases, and venue setup. Developed the layout for the open-house public meeting and the looping presentation. Oversaw development of public meeting boards, comment cards, and sign-in sheets. Presented project plans to city council, homeowner organizations, neighborhood associations, and federal agencies as well as the local planning commission. Responded to questions received from the public and summarized meeting attendance and turnout in a public meeting summary document.
12/13 – 08/17	Louisiana Department of Transportation and Development (LADOTD), LA 3235 Stage 0 Safety Study, Lafourche Parish, LA. *Project Scientist* responsible for Stage 0 Preliminary Scope and Budget and Environmental Checklists, Purpose and Need, environmental inventory and public outreach. Following the LADOTD Stage 0 Manual of Practice, all environmental resources within the study area were reviewed for potential impacts. Required right-of-way was determined and geometric layouts and cost estimates were generated.
03/19 – 07/20	LADOTD, Baton Rouge Pedestrian-Bicycle Safety Action Plan / Stage 0 Feasibility Study, Baton Rouge, LA. *Project Manager* responsible for the development and delivery of a Pedestrian and Bicycle Safety Action Plan for the City of Baton Rouge. Responsibilities include completing a review of crash data, identification of priority locations, and creation of targeted countermeasures based on roadway type. The second phase of the project will allow for the development of detailed studies at the top 10 identified locations where safety countermeasures such as low-cost pedestrian and bicycle facility improvements.
08/19 – 01/21	East Baton Rouge City- Parish, Alphonse Forbes Road at Sandy Bayou Bridge Replacement, Watson, LA. *Project Scientist.* The Alphonse Forbes Road bridge was closed and Arcadis was selected by the City-Parish to complete a design study, topographic survey, and preliminary and final designs. Developed a solicitation of views (SOV) packet, which was distributed to elected officials as well as government agencies. The SOV provided background information, which allowed the USACE to provide guidance as to the format and permit they would expect in order to replace the bridge over U.S. Wetlands.
03/12 – 05/13	I-20 Economic Development Corporation, LA 594 (Millhaven Rd.) Stage 0 Compliant Study, Ouachita Parish, LA. *Project Scientist* responsible for Stage 0 Preliminary Scope and Budget and Environmental Checklists, Purpose and Need development, and environmental inventory. Following the LADOTD Stage 0 Manual of Practice, all environmental resources within the study area were reviewed for potential impacts. Required right-of-way was determined cost estimates were generated.

Firm employed by	ARCADIS		
Name	Michael Blatt, MBA	Years of relevant experience with this employer	3
Title	Public Involvement	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization		MS / 2014 / Business Administration, University of Georgia BS / 1995 / Journalism, University of Florida	
Active registration number / state / expiration date		Certificate in PR Strategy, Cornell University, 2021; Certificate in Managing for Execution (Leadership), Cornell University, 2013; Lean Six Sigma Green Belt; University of Georgia, 2013	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Public Involvement / Communications	

Experience dates	Experience and qualifications relevant to the proposed contract
	Communications leader and strategist leveraging substantial experience in journalism and public relations to disseminate information and shape public perception on behalf of metro Atlanta's largest transportation organizations, including the Georgia Department of Transportation (GDOT) and Metropolitan Atlanta Rapid Transit Authority (MARTA). Previously, served as executive speechwriter and directed all internal communications at Hartsfield-Jackson Atlanta International Airport (ATL). As a journalist for 18 years, won three dozen writing, editing, and design awards.
11/19 – Ongoing	**I-285 Westside Express Lanes, GDOT, Atlanta, GA.** *Communications Lead*. Responsible for developing communications strategies and messaging, building PowerPoints, leading internal meetings, coordinating and conducting stakeholder outreach, and responding to public inquiries. Spearheaded all efforts – including social media campaigns, print advertising, press releases, video testimonials, and stakeholder toolkits – ahead of the project's virtual Public Information Open House (PIOH) in early 2021. Organized and moderated a virtual chat session with the public in February. Coordinating and leading bi-weekly meetings to provide updates on and track activities and deliverables (e.g., presentations, social media posts, and public inquiry responses).
08/19 – Ongoing	**Savannah River Crossing Improvement Study, GDOT, Atlanta, GA.** *Communications Lead.* Responsible for researching, writing, and editing significant portions of all documents for the Savannah River Crossing Improvement Study and Talmadge Memorial Bridge Air Draft Analysis. Developing and implementing a communications strategy for the study, which included an outreach plan, presentation, press release, fact sheet, and frequently asked questions (FAQs). Serving as communications liaison between GDOT and the Georgia Ports Authority, ensuring alignment between the agencies on responding to the news media and public inquiries.
04/21 – 07/21	**MARTA HOPE Program, MARTA, Atlanta, GA.** *Communications Lead/Project Manager.* Responsible for developing messaging that highlighted the human interactions, impacts, and benefits of the MARTA HOPE Program, which aims to address homelessness throughout the transit system. Messaging targeted internal and external stakeholders and included a full page of content for www.itsmarta.com. Organizing and designing a print tri-fold brochure and PowerPoint presentation,

	incorporating MARTA images, fonts, colors, and other branding elements. Coordinating and leading meetings with client to keep project on track.
11/19 – Ongoing	Dekalb Avenue Complete Street, GDOT, Atlanta, GA. *Communications Coordinator.* Responsible for coordinating and attending public outreach meetings as well as developing public boards, facts sheets, and FAQs. Serving as a liaison between the project team and Renew Atlanta as well as providing strategic insight on media coverage before and after public/stakeholder meetings.
05/19 – 07/19	Better Utilizing Investments to Leverage Development (BUILD) Grants, GDOT, Atlanta, GA. *Project Manager/Grant Writer.* Responsible for leading the development of two U.S. Department of Transportation BUILD grants researched and written on behalf of GDOT. Writing one of those grants and submitting both on time and $10 Thousand under budget.
08/18 – 04/19	More MARTA Atlanta, HNTB, Atlanta, GA. *Senior Communications Manager.* Responsible for overseeing a six-member communications team in areas of outreach/engagement, messaging, public relations, presentation development, social media, and digital and creative services to regional agencies, including MARTA. Spearheading communications for More MARTA Atlanta, the city's largest expansion program in 40 years, and coordinating day-to-day meetings and deliverables. Reimagining the monthly electronic newsletter for More MARTA Atlanta to include more innovative content, including alternative story forms such as quizzes. Streamlining team's internal review process, reducing number of people and time involved for deliverables; resulted in better on-time deadline performance for clients.

Firm employed by	ARCADIS		
Name	Ari Deitch, PE, PTOE, PTP, RSP	Years of relevant experience with this employer	7
Title	Traffic Engineer	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		BS / 2012 / Biological Engineering, Louisiana State University	
Active registration number / state / expiration date		PE.0041842 / LA / Exp. 03/2022; PTOE #4346 / USA / Exp. 11/2023 PTP #690 / USA / Exp. 07/2022; RSP #37 / USA / Exp. 12/2024; ATSSA TCT / TCS	
Year registered	2018	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Engineering	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Deitch is a Transportation Engineer specializing in traffic engineering and design, safety, transportation management, and conceptual roadway design. Mr. Deitch has experience managing and working on projects for LADOTD and the City of Baton Rouge, as well as other DOTs across the country, pertaining to Stage 0 feasibility studies, transportation management plans, traffic, and safety studies, NEPA studies, pedestrian and bicycle improvements, access management, signal design, and signing and marking design. He has experience and proficiency in IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS and MicroStation software. Ari is ATSSA TCT and TCS certified.
05/19 - Ongoing	LADOTD, I-20 / I-220 Interchange Imp. and BAFB Access TMP and IMR, LA / H.003370. *Traffic Engineer.* Responsible for development of addendum to ***Interchange Modification Report***, Transportation Management Plan, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20 / I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.
08/14 – 10/18	LADOTD, US 71 Corridor Traffic and Safety Study – Phase 1-3, Rapides Parish, LA / H.010824. *Traffic Engineer.* Responsible for providing traffic data collection, warrant studies, ***traffic analysis, safety data analysis, and development of conceptual layouts***. Data collection effort included automated one-week counts, manual turning movement counts and spot speed studies. Collected crash data for the most recent three years from LADOTD crash database, analysed crash summaries and identified historical high-crash locations and over-representative crashes, determined crash types, frequencies and crash rates, reviewed individual crash reports to determine type and location of each crash, identified crash "hot-spot" locations, contributing factors for high-crash rates, and determined potential improvements.
11/20 – Ongoing	LADOTD, I-10 CMAR, East Baton Rouge Parish, LA / H.001400. *Traffic Engineer.* Responsible for wide range of ***traffic engineering*** tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment.
10/19 – Ongoing	LADOTD, I-10 New Orleans to Slidell Hard Shoulder Running, Orleans Parish, LA / H.013960.1. Traffic *Engineer*. Responsible for the development of conceptual drawings and typical sections for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell. Purpose of the project is to evaluate the feasibility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and congestion along critical segments of the corridor.
10/15-Ongoing	LADOTD, US 90 Business Signing Upgrades and TMP, Orleans and Jefferson Parishes, LA / H.010634.5. *Assistant Project Manager.* Responsibilities include taking inventory of existing signs and structures, developing a signing layout plan for the

	project area in accordance with the latest state and federal policy guidance, developing signing plans through 100% final design stage, developing a Transportation Management Plan to be used during construction of the project, and coordinating reviews and submittals with LADOTD Traffic Engineering Design Section. The purpose of the project is to replace all existing signs within the project area, which includes sections of I-10 and US 90 Business in and around New Orleans' Central Business District. This requires careful planning in the placement of signs and structures to accommodate the complex roadway network in this area. Arcadis completed the design plans and TMP in 2019, and is currently providing engineering support during construction of the project.
04/19 – 12/19	LADOTD, East Baton Rouge Parish Signal Detection Upgrades, East Baton Rouge Parish, LA / H.013830. *Traffic Engineer.* Technical lead of project tasks involving field signal inventory and the creation of updated signal plans and quantities. The project includes 39 intersections identified in East Baton Rouge Parish to be upgraded from video detection to magnetometer detection.
04/19 – 12/19	LADOTD, US 90 Traffic Signal Timing Upgrades, Lafayette Parish, LA / H.012665. *Traffic Engineer.* Technical lead of project tasks involving ***traffic data collection and analysis***, signal inventory, peak period determination and observations, warrant analysis, travel time runs, traffic signal analysis using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards.
08/14 – 06/15	LADOTD, LA 3235 Stage 0 Feasibility Study, Lafourche Parish, LA / H.010688.1. *Traffic Safety Analyst.* Responsible for review of existing ***crash data and traffic operations analysis***, development of safety countermeasures, conceptual drawings, and Stage 0 documentation. LADOTD Stage 0 Safety Study to develop access management strategies and roadway improvements that will maintain and improve mobility, improve safety, support existing and future development along the LA 3235 corridor. The LA 3235 corridor was initially constructed as a high-speed roadway to facilitate truck traffic to and from Port Fourchon. Since its construction, numerous commercial and residential developments have created unsafe conditions along the corridor.
02/15 – 11/17	LADOTD, Intersection Feasibility Study. Evangeline Thwy, Johnston St, & Louisiana Ave, Lafayette Parish, LA / H.011408. *Traffic and Safety Analyst.* Responsible for review of existing crash data, traffic operations analysis, and ***development of design alternatives***. Objective is to develop alternatives for the intersection of Evangeline Thruway (US 167/90) and Johnston Street (US 167) / Louisiana Avenue (LA 94) that will improve safety and mobility. Evangeline Thruway consists of two one-way roadways with three lanes in each direction. Three alternatives for each intersection at Johnston Street / Louisiana Avenue were developed based on the results traffic and safety analysis.
01/17 – Ongoing	MTA-TBTA, Tunnel Flood Barrier Systems Design-Build Project, NY *Traffic Engineer*. Responsible for the development of a comprehensive Transportation Management Plan (TMP) and Maintenance and Protection of Traffic (MPT) Plans for the design and construction of permanent and deployable flood protection systems at the Hugh L. Carey Tunnel and the Queens Mid-Town Tunnel in New York City, New York. Specific tasks include selection and application of state and federal policy guidance to develop temporary traffic control plans and sequencing for various construction phases of the project, coordinating with state and local agencies to satisfy MPT notification requirements, and developing procedures for the implementation and removal of temporary traffic control devices and equipment.

Firm employed by	ARCADIS		
Name	Kester Hollier, PE, PTOE	Years of relevant experience with this employer	1
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization		BS / 2004 / Civil Engineering, Louisiana Tech University	
Active registration number / state / expiration date		PE.034304 / LA / Exp. 03/2023; PTOE #3928 / USA / Exp. 11/2024	
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Engineering	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Hollier possesses a wide breadth of experience in the field of transportation engineering including feasibility studies, traffic engineering, signal timing and design, roadway design, complete street improvement projects, roadway safety analysis and design, and construction management and inspection. Working on a wide variety of projects from the planning and conceptual phases to the design and construction phases, has given him the experience to help identify the needs and requirements for projects. This experience allows him to understand stakeholders ranging from local public agencies to state DOTs and helps provide expertise in achieving successful solutions for a variety of projects. **Mr. Hollier has completed LADOTD Traffic Engineering Process and Report Training.**
05/14 – 08/20	**Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA.** Traffic/Civil Engineer. Responsible for the design of traffic control and construction sequencing, pavement marking layout, quantity analysis, cost estimates, and quality control for a ***new interchange*** at LA 3139 (Earhart Expwy.) and LA 3046 (Causeway Blvd.) in Jefferson Parish, LA. Provided review for the interchange traffic sign and traffic signal timings and design. Identified all necessary design waivers and design exceptions required for LADOTD approval. Provided geometric layout design, typical section design and review, and joint layout design for several interchange ramps and underpasses.
09/12 – 02/16	**Stage 0 Feasibility Study and Stage 1 EA for Replacing Belle Chasse Tunnel and Bridge, LADOTD, Plaquemines Parish, LA.** *Traffic Engineer*. Responsible for the feasibility study and ***traffic analysis*** along LA 23 (Belle Chasse Highway) between LA 428 (Behrman Highway) and LA 406 (Woodland Highway) for multiple 6-lane bridge alternatives proposed to replace the existing Belle Chasse Tunnel and lift bridge over the Intercoastal Waterway. These alternatives included 3%, 4%, and 5% bridge grades that modified roadway geometry and intersection location. Responsible for the review of roadway design and costs for the ***Line and Grade Study*** along with the review of the construction sequencing and traffic maintenance of the constructability review.
11/20 – Ongoing	**I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. Project Manager**. Responsible for traffic engineering tasks including development of permanent signing plans, traffic signal plans, interchange modification reports, and transportation managemnet plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive historical ***crash and safety analysis*** is being performed in support of the IMR and TMP. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to minimize delay.
06/13– 04/14	**US 190 Stage 0 Feasibility Study, LADOTD, St. Tammany, LA.** *Traffic Engineer*. Responsible for roundabout geometric design and pedestrian and bike path design along the US 190 corridor in the City of Slidell and St. Tammany Parish to improve safety for motorized and non-motorized roadway users.

11/17 – 07/20	LA 466 (5th Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA. *Project Manager / Traffic Engineer*. Responsible for the ***traffic study and impacts*** for the proposed complete streets improvements along the LA 466 corridor between LA 23 and Richard St. in Gretna, Louisiana. Tasks included data collection along the corridor and at designated intersections, ***safety and crash analysis*** along the corridor, trip generation/land use and performing existing traffic analysis and future traffic analysis for proposed final alternative. The traffic study was prepared to follow the LADOTD Traffic Engineering Process and Report Guidelines. The project also included a stand-alone pedestrian study along the corridor at designated intersection and the design of accessible pedestrian signals at signalized intersections.
12/17 – 11/19	Causeway Boulevard Widening Traffic Study, Jefferson Parish, LA. *Project Manager / Traffic Engineer*. Responsible for the ***traffic and safety study*** for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in Jefferson Parish, LA. Tasks included data collection, traffic volume redistribution, left-turn placement and turn bay storage length, and existing traffic analysis and future traffic analysis of a preferred alternative.
10/18 – 01/19	LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. *Traffic Engineer*. Responsible for the development of three alternatives along Northshore Boulevard between I-12 and US 190 in Slidell, LA. Managed the data collection process and peak period observations to determine existing traffic patterns, as well as the ***safety analysis*** along the corridor. Developed three alternatives that used a combination of traffic signal retiming, J-turns, and roundabouts to provide better ***access management*** along Northshore Boulevard as well as improve traffic flow in the corridor for current and proposed future conditions with consideration given to proposed future developments using trip generation and land use analysis.
01/10 – 04/11, 07/13 – 01/14	Stumberg Lane Extension, City of Baton Rouge Green Light Plan, East Baton Rouge Parish, LA. *Traffic Engineer*. Responsible for the design of new traffic signals at US 61 (Airline Highway) and LA 73 (Jefferson Highway) for the extension of Stumberg Lane in Baton Rouge, LA. Also responsible for the design and layout of the fiber optic interconnect along the proposed extension.
05/09 – 07/13	LA 23 Widening (Lapalco Blvd. – Engineers Rd.), LADOTD, Jefferson and Plaquemines Parishes, LA. *Traffic/Civil Engineer*. Responsible for the ***roadway design and geometrics*** for the widening of LA 23 in Jefferson and Plaquemines Parishes between Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed ***traffic analysis*** for the traffic signal timing and required turn bay lengths at intersections. Developed traffic signing plans, pavement marking layouts and temporary traffic control plans.
10/10 – 7/15	Barriere Road Feasibility Study/Traffic Study, US Department of Defense, Plaquemines Parish, LA. *Civil/Traffic Engineer*. Responsible for the geometric layout and design of the realignment alternatives of Barriere Rd. between LA 23 to the US Naval Air Station. Developed and reviewed ***traffic analysis*** for arrival and departure patterns for the South US Naval Air Station entrance gates.

Firm employed by	ARCADIS		
Name	Thomas Montz, PE, PTOE, PTP	Years of relevant experience with this employer	9
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		MS / 2011 / Civil Engineering, Louisiana State University BS / 2009 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date		PE.0039128 / LA / Exp. 09/2022; PTOE 4093 / USA / 07/2022; PTP 599 / USA / 03/2023;	
Year registered	2014	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Engineering	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Montz is a Project Manager and Senior Transportation Engineer specializing in transportation planning / feasibility, modeling, safety, and design. He has over 12 years of experience leading a multitude of planning and engineering projects including Stage 0 feasibility studies, safety studies, NEPA studies, traffic signal timing and design, and transportation management during construction. He specializes in traffic analysis and operations including signal timing, signal design, ITS design, HCM analysis, and microsimulation analysis.
12/13 – 06/15	**LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA.** *Traffic Engineer.* Responsible for traffic and safety analysis as part of the Stage 0 feasibility study to develop improvement alternatives with the goal of enhancing mobility and safety on LA 3235. Main tasks included traffic data collection, signal warrant studies, ***traffic analysis***, ***safety analysis***, development of conceptual layouts, and ***public outreach***. Intersections found to warrant signalization were also modeled in unconventional designs including U-turns, J-turns, and RCUTs. Purpose of the project was to address historical safety issues along the corridor resulting from high speeds and conflict points. Assisted with the completion of Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists.
04/19 – 12/19	**US 90 Traffic Signal Timing Upgrades/LADOTD, Lafayette Parish, LA.** Technical Lead of project tasks involving ***traffic data collection and analysis***, signal inventory, peak period determination and observations, warrant analysis, travel time runs, traffic signal timing analysis using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards
02/15 – 08/17	**US 71 Corridor - Phase II Stage 0 Feasibility Study, LADOTD; Rapides Parish, LA.** *Project Manager*. Responsible for the preparation of a corridor feasibility study for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included traffic data collection, signal warrant studies, traffic analysis, safety data analysis, ***alternative development***, and ***public/stakeholder involvement***. Completed Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists.
04/16 – 09/18	**New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA.** *Traffic Engineer*. Responsible for traffic data collection, volume development, traffic analysis, and alternative screening. Purpose of the project was to identify safety improvement alternatives at 20 high-priority intersections in New Orleans with a history of pedestrian and bicycle safety issues. Assisted with the development of safety countermeasures for short-term and long-term alternatives. Assisted with the completion of Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists.
04/16 – 10/19	**I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA.** *Traffic Engineer.* Conducted ***traffic analysis*** using a calibrated microsimulation model to evaluate the operational performance

	of HSR and HOV lane alternatives along I-12 between the I-10/I-12 split and Walker, LA. Developed a range of alternatives and made recommendations based on the alternatives that produced the greatest operational benefits and relieved major bottlenecks. Presented results to LADOTD project team and administration to inform the decision-making process and subsequent project stages.
02/18 – 06/21	Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments LADOTD, East Baton Rouge Parish, LA. *Traffic Engineer.* Responsible for assessing existing and future safety deficiencies related to pedestrian and bicycle modes at identified high-risk intersections and segments in East Baton Rouge Parish. Assisted with the development of screening criteria to identify high priority locations with a history of pedestrian and/or bicycle crashes.
12/13 – 05/15	Joe Sevario / Roddy Road Stage 0 Safety Feasibility Study, LADOTD, Ascension Parish, LA. *Traffic Engineer*. Evaluation of roundabouts at 10 stop-controlled intersections along Joe Sevario / Roddy Road, from US 61 to LA 42, a length of approximately 7.2 miles. Main tasks included ***traffic data collection***, traffic signal warrants, crash analysis, capacity analysis, ***safety analysis***, review of existing pipelines and other municipal *utilities, alternatives analysis, design development, and cost estimates.*
11/12 – 4/13	LA 594 (Millhaven Rd.) Stage 0 Feasibility Study and Preliminary Design, I-20 Economic Development Corporation, Ouachita Parish, LA. *Traffic Engineer.* Responsible for ***traffic data collection and traffic and safety analysis tasks***. The project proposed roadway improvements to maintain operations and safety along Millhaven Road while accommodating projected increases in traffic demand and commercial development.
04/16 – Ongoing	Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. *Traffic Engineer.* Responsible for assisting with ***traffic signal timing analysis tasks*** including volume development / projections, origin-destination study, VISSIM model development and calibration, and noise analysis. Work involves completing an ***Environmental Assessment*** and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange.
04/13 – Ongoing	US 11 Environmental Assessment, LADOTD, St. Tammany Parish, LA. *Traffic Engineer.* Responsible for crash analysis, operating speed tabulations, intersection and corridor analysis, ***alternative development***, and noise modeling for the proposed widening of US 11 between US 190 (Gause Blvd) and I-12 in Slidell, LA. The proposed improvements include replacing a bridge crossing the Norfolk Southern Railroad. This project includes analyzing several innovative alternatives for the proposed corridor, including "superstreets" and J-turn concepts.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA / H.001400. *Traffic Engineer.* Responsible for construction phasing modeling and evaluation to determine the impacts of various construction phasing scenarios and mitigation that will be required to minimize travel delays during construction. Construction phasing scenarios are being modeled using a calibrated mesoscopic model developed by Arcadis, which can estimate the effects of construction activities on the broader roadway network. Model results are being used to inform the Transportation Management Plan for the project.

Firm employed by	ARCADIS		
Name	Sara Moore	Years of relevant experience with this employer	18
Title	Biologist	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization		MPA / Year Graduated / Environmental Policy, Indiana University-Bloomington MS / 2002 / Environmental Science, Indiana University-Bloomington BS / 2000 / Environmental Science, West Virginia Wesleyan College	
Active registration number / state / expiration date		Qualified Hydrologic Professional - TN-QHP – 1190-TN19 / TN	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Environmental Scientist, Permitting	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Moore has more than 22 years of experience in conservation ecology, environmental policy, natural resource management, and federally protected species policy. Her experience includes wetland delineations associated with Section 404 permitting, mitigation monitoring, threatened and endangered species surveys and protection, terrestrial biomass evaluation, amphibian survey and identification, avian banding and monitoring, and water quality sampling. Other policy experience includes National Environmental Policy Act (NEPA) documentation, Section 404 permitting under the Clean Water Act, public negotiation of new legislation and governmental regulations, environmental report preparation and documentation, and environmental education. Ms. Moore's extensive environmental experience has been developed through work with federal and state government, private consulting, and university research.
01/2015– Ongoing	**Bridge Repair or Replacement 404 Permitting Projects, Confidential Client, Ten Sites in GA, NC, and SC.** *Associate Project Manager and Lead Ecologist.* Responsible for management and performance of wetland delineation, Section 404 Nationwide Permit, mitigation credit purchase, and permit compliance for repair or replacement of 14 bridges. Perform lead field duties, including wetland delineation, stream classification, global positioning system (GPS) survey, and threatened, endangered, and sensitive species survey for the railroad siding corridor. Write corresponding Section 404 Nationwide Permit and provide coordination with federal and state regulatory agencies. Organize resources for preparation and submittal of the land disturbance permits, review design engineering plans and erosion and sediment control plans and perform NPDES inspections for permit compliance. Perform quality assurance/quality control (QA/QC) of erosion and sediment control plans, NPDES permit application, Notice of Intent submittal, and permit compliance inspections.
01/2015 – Ongoing	**Wildberry, Latitude, and Providence Solar Array Development Ecological Services, Coronal Development Services LLC, Silicon Ranch Corporation, and Tennessee Valley Authority (TVA), Fayette, Hardeman, and Madison Counties, TN.** *Lead Onsite Ecologist & Ecological NEPA Author*. Responsible for the ecological sections of the Environmental Assessments (EAs) and Bat Habitat Survey responsible for performing wetland and stream delineations and endangered or threatened gray, Indiana, and northern long-eared bat habitat surveys of three solar array development sites on properties ranging in size from 150-350 acres in Moscow, Whiteville, and Denmark, Tennessee. Performed lead field duties, including wetland delineation, stream classification, GPS survey, threatened and endangered bat habitat analysis, and threatened, endangered, and sensitive species survey for the solar development sites. Lead the team to prepare and submit the USACE Jurisdictional Determinations for the Section 404 and advised on USACE permitting.

01/14 – 01/17	Arkansas River Pipeline Wetland Delineation, ExxonMobil Pipeline Company (EMPCo), Mayflower, AR. *Lead Onsite Ecologist*. Responsible for performing wetland and stream delineation of a 0.5-mile-long pipeline in Mayflower, Arkansas. Performed lead field duties, including wetland delineation, stream classification, GPS survey, and threatened, endangered, and sensitive species survey for the pipeline and access road corridor. Assisted with Section 404 permitting. Coordinated with engineers and client's property manager.
01/12 – Ongoing	Mitigation Monitoring and Reporting, GDOT, Various Counties, GA. *Biologist*. Conducted Georgia DOT wetland mitigation vegetative monitoring and groundwater well installation for various wetland mitigation sites. Annual monitoring included vegetative sampling and analysis, hydrologic assessment, and wildlife establishment. Yearly monitoring was followed by report preparation and coordination with Georgia DOT to finalize results. Project included interpreting right-of-way documentation and legal acquisitions of land and writing restrictive covenants for establishing mitigation banks.
01/13 – 01/15	East Shelby Road Property Acquisition Phase 1 Environmental Site Assessment, Burlington Northern Santa Fe Railway, Memphis, TN. *Lead Onsite Ecologist.* Responsible for performing a Phase 1 environmental site assessment on a proposed property acquisition and authored the report for the assessment of findings.
01/18– 01/20	SR-396/Saturn Parkway Extension DB, TDOT Maury County, TN. *Ecologist, Permit Writer, and Mitigation Designer*. Responsible for the construction of three projects involving roadway improvements and a new location roadway. Project work includes survey, ecological studies, stream design, permitting, EPSC design and lighting design. The project involves relocation of 200' of stream and mitigation, new culvert and bridge crossings, re-evaluation of a D-List Categorical Exclusion Document, and extensive permitting including a USACE Section 404 Permit, TDEC Individual Aquatic Resource Alteration Permit and three NPDES Construction General Permits.
01/20 – Ongoing	TC Energy Gulf and West Digs Projects 2017, 2019, 2020, and 2021, TC Energy, Various Locations, TN, MS, AR, and LA. *Lead Onsite Ecologist*. Responsible for performing wetland and stream delineations of multiple dig locations. Performed lead field duties including wetland delineation, stream classification, GPS survey, and threatened, endangered, and sensitive species survey for the pipeline and access road corridor. Leads the Tennessee Section 404 permitting, agency coordination, and final reporting. Lead site inspector for environmental inspections on completed projects. Serves as health and safety coordinator. Coordinated with engineers and client's property manager.
01/20 – Ongoing	CSXT Bridge Repair or Replacement 404 Permitting Projects, Confidential Client, AL, GA, NC, and SC. *Associate Project Manager and Lead Ecologist.* Responsible for management and performance of wetland delineation, Section 404 Nationwide Permit, mitigation credit purchase, and permit compliance for repair or replacement of 16 bridges. Perform lead field duties including wetland delineation, stream classification, global positioning system (GPS) survey, and threatened, endangered, and sensitive species survey for the railroad siding corridor. Write corresponding Section 404 Nationwide Permit and provide coordination with federal and state regulatory agencies. Organize resources for preparation and submittal of the land disturbance permits review design engineering plans and erosion and sediment control plans, and perform NPDES inspections for permit compliance. Perform QA/QC of EPSC plans, NPDES permit application, Notice of Intent submittal, and permit compliance inspections. Coordinate with client contacts, project managers, engineers, and contractors through initial site visits, constructability strategy sessions, and preconstruction meetings, and outline permit.

Firm employed by	ARCADIS		
Name	Jason Morrell, PWS	Years of relevant experience with this employer	9
Title	Senior Ecologist / Project Manager	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 1999 / Agriculture, University of Georgia	
Active registration number / state / expiration date		Professional Wetland Scientist – #2319 / USA / Exp. 04/2023	
Year registered	2013	Discipline	Wetland Science
Contract role(s) / brief description of responsibilities.		Deputy Project Manager / Environmental Lead	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Morrell has over 20 years of experience in environmental planning and ecology in the southeastern U.S. Prior to joining Arcadis, he served as a NEPA Planner and Ecologist with the Georgia Department of Transportation (GDOT) evaluating environmental effects and completing permitting and environmental documentation for transportation projects. His area of expertise includes wetland studies, biological assessment, and environmental permitting, with a focus on Clean Water Act Section 404 permitting and Section 7 Endangered Species Act (ESA) consultation. He is experienced working with the Federal Highway Administration (FHWA), US Army Corps of Engineers (USACE), US Fish & Wildlife Service (USFWS), and state resource agencies. Since 2011, Mr. Morrell has worked almost exclusively on transportation projects and is an active member of the Transportation Research Board Committee on Environmental Analysis and Ecology.
04/21 – Ongoing	**Rural Bridge Replacement Initiative Phase II – Districts 02, 03, 07, 61, and 62, LADOTD, Multiple Parishes, LA.** Project Manager and Environmental Lead for 16 state projects involving replacement of 29 state highway bridges. The environmental scope of services for the projects consists of Solicitation of Views, Wetland Studies, Programmatic Categorical Exclusion Checklists, and permitting including USACE Nationwide Permits (NWPs) and Louisiana Department of Natural Resources Coastal Use permits.
04/16 – Ongoing	**Pete's Highway Interchange Alternative and Environmental Assessment, LADOTD, Livingston Parish, LA.** *Ecologist*: Led a **wetland delineation and protected species habitat assessment** along Range Road in the vicinity of the I-12 interchange for the proposed interchange improvement project. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, in support of the **NEPA Environmental Assessment**.
09/2019 – Ongoing	**Environmental Support Services IDIQ Contract, GDOT, Statewide, GA.** *Project Manager and Ecology Lead*: Responsible for management of embedded (support services) ecology and **NEPA** staff managing environmental studies on behalf of GDOT, including review of consultant documents. Design and develop ecology initiatives for the GDOT Office of Environmental Services (OES) including guidebooks and toolkits to update the Environmental Procedures Manual, training materials for contractor prequalification, applications to streamline National Marine Fisheries Service Section 7 ESA and Essential Fish Habitat consultations, and other research initiatives.
07/14 – 07/19	**Statewide Ecology Services IDIQ Contract GDOT, Statewide, GA.** *Deputy Project Manager and Ecology Lead*: Responsible for managing embedded ecologists assigned management of ecology studies, permitting, and biological assessment for GDOT projects. Negotiated a menu of services task order for on-call **environmental studies** providing the client the flexibility to complete tasks quickly to meet project delivery schedules. Managed preparation and provided technical review of supporting **NEPA documentation** for federally funded **infrastructure development and improvement projects**. Developed ecology

	toolkits, guidance documents, and templates for GDOT use and publication in collaboration with regulatory agencies and GDOT staff. Managed a research project evaluating the effectiveness of migratory bird mitigation measures on transportation projects and providing recommendations to GDOT for best management practices.
12/15 – 11/18	Railroad Bridge Replacements, Confidential Class I Railroad Client, Louisiana and Texas. *Lead Ecologist:* Responsible for wetland delineation and protected species habitat assessments for replacement of two structurally deficient railroad bridges. Completed wetland findings report, including required exhibits, and calculated impacts to streams and wetlands for bridge replacements. Coordinated with design for impact avoidance and minimization and provided technical review of a NWP 14 Pre-Construction Notification (PCN), including permit sketches, submitted to the USACE Fort Worth District.
10/15 – 04/18	North Bayou Black Drive/Hanson Canal Bridge (OSBP) – LADOTD, Terrebonne Parish, LA. *Ecologist*: Completed a technical review of the Biological Resources and Wetland Findings Report, including required exhibits, prepared for replacement of an off-system highway bridge. Findings from the wetland delineation report were used for a USACE Jurisdictional Determination and Section 404 permit application.
07/16 – 03/18	Bayou Sara Streambank Restoration, West Feliciana Parish Department of Public Works, West Feliciana Parish, LA. *Ecologist*: Project involved stabilizing the streambank along approximately 3,600 feet along Bayou Sara, where severe erosion is impacting the Town of St. Francisville's Wastewater Treatment Facility, pond levees, and the Parish's only access road (Ferdinand Street) to the Mississippi River. Completed a wetland delineation and protected species habitat assessment within the area proposed for bank stabilization, as well as adjacent staging and access areas. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, and NWP 13 PCN, including permit sketches for bank stabilization for which USACE authorization was successfully obtained.
11/15 – 12/16	SR 234 at Chickasawhatchee Creek Bridge Replacement, GDOT, Calhoun and Dougherty Counties, GA. *Lead Ecologist*: Responsible for ecology reporting, Section 404 permitting, and Section 7 Endangered Species Act (ESA) consultation for replacement of a load-limited, structurally deficient bridge over Chickasawhatchee Creek 8 miles north of Leary, GA. Prepared a Biological Assessment for the federally listed mussel species and designated critical habitat including development of special provisions to be included in contract documents for species protection. Based on this Biological Assessment, USFWS issued a Biological Opinion concurring with the recommended biological determination to support project NEPA documentation. Successfully obtained an Individual Section 404 Permit for stream and wetland impacts associated with bridge replacement and roadway improvements, including review and coordination of permit sketches.
04/13 – 011/16	I-75 South Managed Lanes Design-Build (DB), C.W. Matthews Contracting Co., Henry/Clayton Counties, GA. Lead Ecologist for 19-mile express toll lanes on I-75, including a 417-foot-long dedicated access ramp bridge spanning a large wetland and stream system associated with Crittle Creek. Responsibilities included field verification of resource delineation by others, Section 404 Clean Water Act permitting, and a state stream buffer variance application. Jason collaborated with project engineers and the DB contractor to identify permanent and temporary construction impacts prior to permitting and feasible impact avoidance and minimization measures. He coordinated with GDOT and the USACE for pre-construction environmental clearance, as well as under construction compliance. The DB team successfully obtained a NWP 14 for the overall project ahead of schedule and a NWP 33 for temporary impacts for bridge construction.

Firm employed by	ARCADIS		
Name	Jose L. Rodriguez, PE	Years of relevant experience with this employer	1
Title	Senior Civil Engineer	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization		BS / 1992 / Civil Engineering, University of New Orleans	
Active registration number / state / expiration date		PE.0030492 / LA / Exp. 03/2023	
Year registered	2003	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design Lead	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Rodriguez has more than 25 years of experience with roles of progressive responsibility as a civil engineer performing roadway design, bridge design, project management, hydraulic analysis, utility coordination, construction supervision, estimating, and project implementation for various clients in Louisiana, Texas, Georgia, and North Carolina. Jose has worked in close relationship with the Federal Highway Administration (FHWA), U.S. Army Corps of Engineers, Louisiana Department of Transportation (LADOTD), local parish governments, and regional planning commissions. He has extensive experience with Bentley Inroads, Autodesk Civil 3d, and Leap Bridge for Concrete Bridge Design. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010 and remains active in the organization.
02/07 – 10/09	LADOTD, John James Audubon Bridge Approach (Design-Build), New Roads, LA. *Project Designer.* Responsible for the ***geometric horizontal and vertical alignment*** for five approach bridges to the John James Audubon Cable Stay Bridge. The longest cable-stayed bridge in the Western Hemisphere consisting of 1,583' main span. Jose was also in charge of the quality control for all bridge approaches and the design of all precast concrete girders for the project.
01/06 – 09/09	LADOTD / New Orleans Regional Planning Commission, New Orleans Submerged Roadway Program Management, New Orleans, LA. *Project Designer and Quality Control Reviewer.* For this multi-million dollar program management team for the DOTD and the FHWA. Jose helped develop design guidelines and processes for the standardization of engineering work for the repair of roadways damaged by Hurricane Katrina in the City of New Orleans and other parishes. Responsible for conducting quality control reviews on roadway plans prepared by other engineering firms for compliance with DOTD and FHWA design standards.
02/10 – 06/11	LADOTD, I-10 from Veterans to Clearview, Metairie, LA. *Project Designer.* Responsible for ***roadway plan preparation*** for widening 1.2 miles of I-10 from three lanes to five lanes in each direction. The project also included bridge work to accommodate the interstate widening. Jose was also responsible for the alignment and ***design of concrete sound walls*** along the corridor. He helped implement an innovative two-sided concrete stamp process for the noise wall precast concrete panels.
05/12 – 12/15	LADOTD, Earhart Boulevard-Causeway Interchange, New Orleans, LA. *Project Designer.* Responsible for the ***geometric design and roadway plan preparation*** for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow of traffic for the New Orleans Metro Area. It consisted of the development of roadway and bridge ramps for the creation of an ***elevated signal-controlled interchange***. Responsible for development of all horizontal and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage design, utility conflict resolution and cost estimating for the project.

07/09 – 07/15	LADOTD, Peters Road Expansion, Phases I-III, Plaquemines, LA. *Project Designer.* Responsible for the ***geometric design***, plan preparation and wetland delineation of Peters Road Phases I, II and III. The projects consisted of a new roadway, elevated crossing over the Intracoastal Waterway, approach roadways in Jefferson and Plaquemines Parishes to tie Peters Road to Louisiana 23 near Barrier Road. The projects were prepared in coordination with Plaquemines Parish, DOTD and the U.S. Army Corps of Engineers.
06/04 – 01/11	LADOTD, Causeway Boulevard Interchange Improvements Phases I and II, Metairie, LA. *Project Designer.* This project consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of ***new at-grade and elevated ramps*** to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders and the ***roadway plan preparation*** for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations.
01/08 – 05/08	LADOTD, I-12 to Bush Corridor Study Phase III (EIS), St. Tammany Parish, LA. *Project Designer.* Responsible for evaluating environmental issues and ***developing design alternatives in accordance with the National Environmental Policy Act (NEPA)*** for transportation improvements.
01/20 – 05/20	North Carolina DOT, NC Highway 73 (NC 73) Widening, Mecklenburg County, North Carolina. *Project Engineer.* Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges due to the high traffic volumes, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To mitigate traffic disruption and enhance roadway safety, assisted in preparing the Transportation Operation Plans and sequence of construction for the project. All design work was performed following NCDOT and the latest MUTCD standards.
03/19 – 05/20	Eastern Federal Lands Highway Division (EFLHD), Puerto Rico. *Assessment Roadway Lead.* Responsible for the review, report preparation, and coordination for the repairs of over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project stayed within the client's guidance and strict schedules.
04/18 – 09/20	Texas Central Railway, Texas High-Speed Rail, Dallas to Houston, Texas. *Project Designer.* Assisted with ***establishing flood elevations*** for the alignment of over 240 miles of rail tracts. Also responsible for the realignment of at-grade roadways impacted by the High-Speed rail.
10/17 – 03/18	Yuhuang Chemical Inc., Traffic Turn Lanes on Highway LA 3127, St. James, LA. *Quality Control (QC).* Review for the design of two turn lanes into the Yuhuang Chemical Methanol plant in St. James, Louisiana. During construction, Jose provided the owner with construction design services for the duration of the construction phase.
12/15 – 01/16	City of New Orleans, Magnolia Ridge Levee Project, St. Charles Parish, LA. *Quality Control (QC).* QC review and plan preparation for the Magnolia Ridge Levee project for St. Charles Parish.

Firm employed by	ARCADIS		
Name	Jayun Thibodeaux	Years of relevant experience with this employer	2
Title	Ecologist	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		BS / 2017 / Environmental Management Systems, Louisiana State University	
Active registration number / state / expiration date		Relevant Training: Basic Wetland Delineation training by WTI (2018)	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Wetland Studies	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Thibodeaux is an Ecologist in the Arcadis Baton Rouge, Louisiana office with over five years of experience completing wetland studies for LADOTD projects. He has experience conducting delineations of wetlands and other waters of the US (WOTUS) and threatened and endangered species surveys throughout Louisiana, Arkansas, Texas, Mississippi, and Alabama. Mr. Thibodeaux has served as the technical lead and project manager for projects requiring permit coordination with the US Army Corps of Engineers (USACE), Louisiana Department of Natural Resources (LDNR), Louisiana Department of Environmental Quality (LDEQ), as well as National Environmental Policy Act (NEPA) reviews for federal agencies.
04/21 – Ongoing	**Rural Bridge Replacement Initiative Phase II – Districts 02, 03, 07, 61, and 62, LADOTD, Multiple Parishes, LA.** *Ecologist*. Responsible for leading fieldwork for wetland studies and authoring ***Wetland Findings Reports*** for 16 state projects involving replacement of 29 state highway bridges. Prepared GIS figures to support Solicitation of Views and wetland studies. Additional responsibilities include preparing required permit applications on behalf of LADOTD for bridge replacement projects including USACE Section 404 Clean Water Act Nationwide Permits (NWPs) and Joint Applications for NWPs and LADNR Coastal Use Permits.
04/20 – Ongoing	**LA 82 Improvement, Sabine Pass LNG, LP, Cameron Parish, LA.** *Ecologist*. Assisted in preparation of environmental resource reports and data analysis for submittal to the Federal Energy Regulatory Commission (FERC) for approval under the Natural Gas Act (NGA). Prepared ecology report, a ***Section 404 permit application, Section 7 Endangered Species Act documentation***, and created figures utilizing GIS for the LA 82 improvements and modifications to the liquefied natural gas (LNG) facility entrance.
02/19 – 04/19	**Holton Harris Road Bridge, Monroe & Corie, Inc., LP, Over Lake Vernon in Vernon Parish, LA.** *Ecologist.* Conducted a delineation of wetlands and other WOTUS for the replacement of an 80-foot long by 18-foot-wide timber bridge on Holton Harris Road, crossing Vernon Lake located south of the City of Anacoco, Louisiana. Responsible for preparing a preliminary environmental finding report and submitting a ***Nationwide Permit 14 Pre-Construction Notification***.
05/20 – Ongoing	**Louisiana Coastal Use Permit Submittal – COP Stratco, Terrebonne Parish, LA.** *Technical Lead*. Responsible for developing and preparing guidance documents, resource reports, and identifying potential impacts for a ***Joint Permit Application*** with the LDNR, OCM, and the USACE New Orleans District. The project involves the removal of several structures including abandoned oil wells, flowlines, and a barge that served as a well pad located in the Louisiana Coastal Zone. Reviewed available data to identify potential impacts to oyster leases, pre-existing pipelines/crossings, and prop washing zones. Created GIS figures to illustrate project location(s), path, access, and oyster leases in accordance with LDNR and OCM's guidelines.

17. Firm Experience:

Firm name	Lazenby & Associates, Inc.			Past Performance Evaluation Discipline(s)*	Road, Survey
Project name	Arkansas Road (West Monroe) LA 616			Firm responsibility (prime or sub?)	Prime
Project number	S.P.N. H.002622	Owner's name	Louisiana Department of Transportation and Development		
Project location	Ouachita Parish			Owner's Project Manager	Fred Borne, P.E. (Retired)
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245 Telephone (225)379-1388 e-mail: Fred.Borne@la.gov				
Services commenced by this firm (mm/yy)	12/07	Total consultant contract cost ($1,000's)	$1,611		
Services completed by this firm (mm/yy)	06/15	Cost of consultant services provided by this firm ($1,000's)	$1,512		

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

Lazenby & Associates, Inc. was the prime consultant on this project, which involved the widening of a 3.2-mile segment of Arkansas Road (LA 616) from a two-lane arterial to a five-lane arterial with subsurface drainage. The project included replacing four signalized intersections with multi-lane roundabouts to improve safety. An existing timber bridge site was replaced with a 4 – 7'x 7' RCB as part of this project.

Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. Challenges encountered include developing a logical suggested sequence of construction while maintaining through traffic, and design of the roundabout finished grades due to the grades of the approach roadways at three of the roundabouts. Lazenby & Associates also assisted LDOTD in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings. Lazenby & Associates, Inc., also prepared utility relocation plans for water and sewer relocations within the project limits.

Key personnel involved in the project include the following:

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Kevin E. Crosby, P.E., P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- James S. Ellingburg, P.E.
- Randy C. Hammons, P.E.

17. Firm Experience:

Firm name	Lazenby & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Road	
Project name	Kansas Lane – Garrett Road Connector and I-20 Improvements		Firm responsibility (prime or sub?)	Prime	
Project number	S.P.N. H.007300	Owner's name	Louisiana Department of Transportation and Development		
Project location	Ouachita Parish		Owner's Project Manager	Catherine Mastin, P.E.	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245 Telephone (225)379-1652 e-mail: Catherine.Mastin@la.gov				
Services commenced by this firm (mm/yy)	09/17	Total consultant contract cost ($1,000's)		$2,997.4	
Services completed by this firm (mm/yy)	current	Cost of consultant services provided by this firm ($1,000's)		$1,436.3	

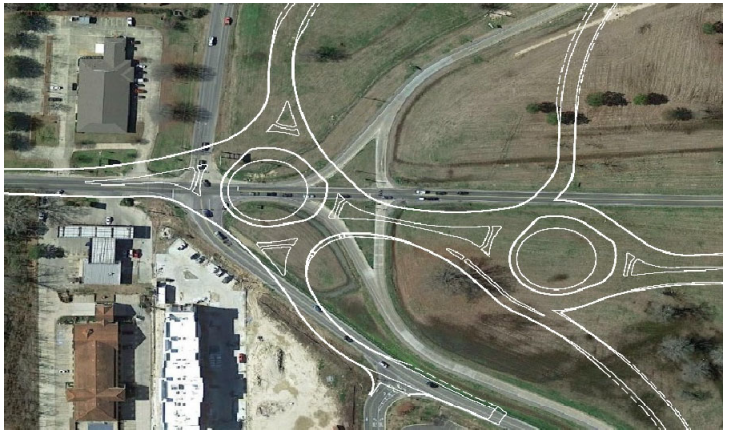
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. is the prime consultant on this project, which involves widening Garrett Road to four lanes in the vicinity of the I-20/Garrett Road interchange, and constructing a new roadway and bridge over LA 594 and the KCS Railway to connect Garrett Road to Kansas Lane in Monroe. The project also includes a new overpass over Garrett Road, five multi-lane roundabouts, and geometric modifications to the existing interstate ramps. The project also includes lighting, an MSE wall, and a traffic signal.

Lazenby & Associates, Inc., prepared preliminary roadway plans and are currently developing final roadway plans. As the prime consultant, Lazenby & Associates, Inc., is also coordinating the geotechnical engineering services, the development of bridge plans, the development of lighting plans, and traffic management plans (Level 4 TMP) by other firms retained as sub-consultants. Major design components being performed by Lazenby & Associates, Inc., include road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. One major challenge is to construct the project while maintaining traffic as much as possible, with minimum interference with I-20 traffic, which has resulted in a suggested sequence of construction that consists of 8 phases. Lazenby & Associates also assisted in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings.

Key personnel involved in the project include the following:

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- James S. Ellingburg, P.E.
- Randy C. Hammons, P.E.
- Hagan Lawrence, P.E.
- Noah Sampognaro, E.I.



17. Firm Experience:

Firm name	Lazenby & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Road, Survey	
Project name	Bossier North-South Corridor		Firm responsibility (prime or sub?)	Prime	
Project number	S.P.N. H.003854	Owner's name	Bossier Parish Police Jury – Northwest Louisiana Council of Governments.		
Project location	Bossier Parish		Owner's Project Manager	Joe E. Ford, Jr., P.E.	
Owner's address, phone, email	P.O. Box 70, Benton, LA 71006 Telephone (318)965-2329 e-mail: jefbosseng@aol.com				
Services commenced by this firm (mm/yy)	07/10	Total consultant contract cost ($1,000's)	$1,624.9		
Services completed by this firm (mm/yy)	11/17	Cost of consultant services provided by this firm ($1,000's)	$1,339.1		

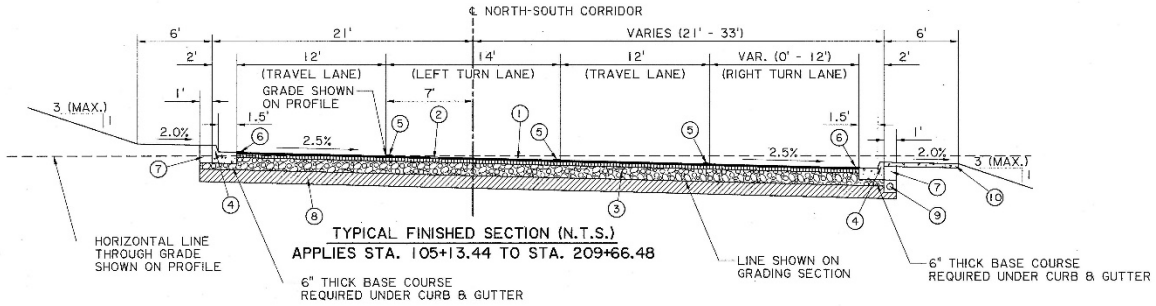
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. was the prime consultant on this project, which involved reconstruction, widening, and realignment of a 3.7-mile segment of Swan Lake Road north of I-220, and construction of a new 4.2-mile roadway on new alignment from Swan Lake Road north to Crouch Road. The southern portion of the project is a three-lane section with subsurface drainage, while the remainder of the project is a two-lane roadway with open ditch drainage. There are three bridge sites included in the project. An existing timber bridge was replaced with a 5 – 10' x 10' RCB, and an existing slab span bridge was widened. The project was ultimately split into two jobs, and the north section which will soon let, includes a new quad beam girder bridge.

Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, bridge design, hydraulic analysis and design (including hydraulic modeling of bridges), geometric design, and sequence of construction. Lazenby & Associates also assisted in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings.

Key personnel involved in the project include the following:

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- James S. Ellingburg, P.E.
- Randy C. Hammons, P.E.



17. Firm Experience:

Firm name	Lazenby & Associates, Inc.		Past Performance Evaluation Discipline(s)*	Road, Survey	
Project name	US 165 (LA 841 – Rilla)		Firm responsibility (prime or sub?)	Sub	
Project number	S.P.N. 015-08-0026	Owner's name	Louisiana Department of Transportation and Development		
Project location	Ouachita Parish		Owner's Project Manager	LA TIMED Managers	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245				
Services commenced by this firm (mm/yy)	02/00	Total consultant contract cost ($1,000's)		$2,063.6	
Services completed by this firm (mm/yy)	07/07	Cost of consultant services provided by this firm ($1,000's)		$1,558.6	

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

Lazenby & Associates, Inc. was the prime consultant on this project, which was a Louisiana Timed Managers (LTM) project that widened US 165 in Ouachita Parish for a distance of 6.5 miles. The existing roadway was restriped and used to accommodate northbound traffic and a new roadway was constructed to accommodate southbound traffic. The project included redesign of the interchange between US 165 and US 165 Business, near the US 165 overpass of the Union Pacific (UP) railway.

Lazenby & Associates performed a line and grade study and assisted with the Environmental Assesment process, including preparing exhibits for the public meeting, conducting a formal presentation at the public meeting, and preparing permit drawings. Upon approval of the preferred alternative, Lazenby & Associates, Inc. performed topographic surveys and preliminary and final plans, including hydraulic design of cross drains and median drains, and prepared right-of-way maps for the project. One of the more important aspects of design on this project involved conducting a study of the existing interchange and determining the feasibility of constructing a new interchange at this location, which is bounded on the west by the Ouachita River levee and the on the east by the UP railway.

Key personnel involved in the project include the following:

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Kevin E. Crosby, P.E., P.L.S.
- James R. Spillers, P.E.
- Randy C. Hammons, P.E.

17. Firm Experience:

Firm name	Lazenby & Associates, Inc.	Past Performance Evaluation Discipline(s)*	Road, Survey
Project name	Cheniere Spillway & Bridge Replacement (LA 3033)	Firm responsibility (prime or sub?)	Sub
Project number	S.P.N. H.008226	Owner's name	Louisiana Department of Transportation and Development
Project location	Ouachita Parish	Owner's Project Manager	Sarah Moss, P.E.
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245 Telephone (225)379-1727 e-mail: Sarah.Moss@la.gov		
Services commenced by this firm (mm/yy)	08/14	Total consultant contract cost ($1,000's)	$1,269.5
Services completed by this firm (mm/yy)	07/20	Cost of consultant services provided by this firm ($1,000's)	$261.1

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

Lazenby & Associates, Inc. was a sub-consultant to The Riley Company of Louisiana, Inc., on this project, which involved replacement of the existing Cheniere Lake spillway and bridge on LA 3033 in Ouachita Parish. The project replaces a structurally deficient concrete spillway and bridge with a new fixed-weir spillway and bridge structure approximately 400 feet northeast of the existing structure. The existing bridge and spillway are being removed and replaced with embankment which will become part of the Cheniere Lake earthen dam. LA 3033 is located on top of the Cheniere Spillway earthen dam along the southeast side of Cheniere Lake. The project was re-designed in 2020 due to the cost of the proposed spillway and also due to funding constraints. The revised plans were expedited to meet an aggressive letting schedule, and were delivered on time.

The original topographic survey was performed by DOTD, but Lazenby & Associates, Inc., performed additional topographic survey work, as well as property surveys and right-of-way maps. Lazenby & Associates, Inc., also performed all roadway design for the project., and established locations for the required cofferdams which are required to dewater the site. This project is currently under construction and is progressing nicely.

Key personnel involved in the project include the following:

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Kevin E. Crosby, P.E., P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- Randy C. Hammons, P.E.

17. Firm Experience

Firm name	**Huval & Associates, Inc.**		Past Performance Evaluation Discipline(s)*	**Bridge**	
Project name	I-220/I-20 Interchange Imp & BAFB Access Design-Build Project		Firm responsibility (prime or sub?)	Prime	
Project number	H.003370	Owner's name	LADOTD		
Project location	Shreveport, Louisiana		Owner's Project Manager	Corey Landry, P.E.	
Owner's address, phone, email	1201 Capitol Access Rd. Baton Rouge, LA 70804-9245; (225)-379-1065; peggy.paine@la.gov				
Services commenced by this firm (mm/yy)	08/18	Total consultant contract cost ($1,000's)		$4,411	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$2,166	

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.

***Key Project Members*:**

Thomas Gattle, Design Manager

Justin Peltier, Lead Bridge Design

Rudy McLellan, Design Quality Manager

Bob Schmidt, Traffic

Reid Romero, Bridge Design

Colby Guidry, Design and Construction Liaison

Nicholas Helminger, Traffic & Road Design

HUVAL, as Lead Designer, teamed with James Construction Group for the I-220/I-20 Interchange Imp & BAFB Access Design-Build Project and was selected by LADOTD February 2019.

The I-220/I-20 Interchange Imp & BAFB Access Design-Build Project consists of extending I-220 as a 4-lane freeway (Barksdale Access Road) south over I-20 to proposed ramp gores for ramps W-S and S-E at Musselshell Bayou then continuing south as a 4-lane rural arterial, crossing over the KCS RR, ending on BAFB property. Included is a modification of the existing I-220/I-20 interchange to also provide direct access from I-20 to Barksdale Access Road. Cost of the project is $72 million. Saving $10 million for the LADOTD, a HUVAL-developed Alternative Technical Concept (ATC) was accepted by LADOTD and incorporated into the project. This ATC changed the IMR concept for the I-220/Barksdale Road northbound exit to I-20 westbound entrance (Ramp NB-WB) from an elevated semi-direct flyover ramp (Ramp S-W in the IMR) to an at-grade loop ramp. This ATC partial cloverleaf design extends the collector-distributor road for the I-20 westbound exit to the I-220 southbound entrance (Ramp WB-SB) included in the IMR concept in order to connect NB to WB traffic to the I-220 southbound to I-20 westbound entrance ramp (Ramp SB-WB).

HUVAL's responsibilities for the I-220 interchange project include Lead Designer, project management, roadway geometrics, bridge design, sequence of construction, and traffic control plans, custom cantilever sign trusses and other miscellaneous structural details.

HUVAL also is providing construction engineering support for James Construction Group during the construction phase of the project.

HUVAL performed 100% of the work for this project in Louisiana.

Firm name	**Huval & Associates, Inc.**			Past Performance Evaluation Discipline(s)*	**Road**
Project name	I-49 @ Verot School Road			Firm responsibility (prime or sub?)	Prime
Project number	H.011235.5	Owner's name	LADOTD		
Project location	Broussard, Louisiana			Owner's Project Manager	Cory Landry, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70804, (225) 379-1065, cory.landry@la.gov				
Services commenced by this firm (mm/yy)	6/16	Total consultant contract cost ($1,000's)			$3,064
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm ($1,000's)			$713

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.

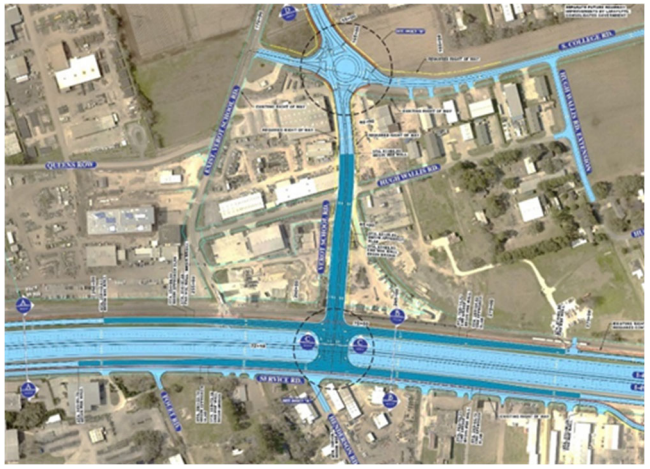
HUVAL leads a group of firms providing preliminary and final engineering and related services to construct 2.4 miles of mainline freeway and an interchange at the intersection of I-49 South/US 90 and Verot School Road. The project consists of an above grade bridge structure on Verot School Road that traverses over the I-49 South/US 90 mainline roadway and the parallel railroad. The project also includes one-way frontage roads on both sides of the mainline roadway, a two-way collector service road east of the mainline roadway, and a new alignment of Verot School Road from the interchange to an existing bridge structure approximately 600' west of its intersection with LA 182 (Pinhook Road). A roundabout will be utilized as the intersection between the reconstructed and realigned Verot School Road and South College Drive.

As the prime consulting firm, Huval is responsible for overall project management, lead bridge design, roadway design and drainage design. In addition, Huval is the lead structural designer for all structure mounted overhead and cantilever sign trusses, structure mounted traffic poles, self-supporting, roadway median barrier and all other miscellaneous structural details.

HUVAL is performing 100% of this work in the State of Louisiana.

***Key Project Members*:**

David Huval, Sr., Principal, Structural Design
Thomas Gattle, Project Manager
Nick Helminger, Design Engineer
Michelle Helminger, MOT, Design
Justin Peltier, Design Engineer



Firm name	**Huval & Associates, Inc.**	Past Performance Evaluation Discipline(s)*	**Bridge**
Project name	Kansas Lane – Garrett Road Connector	Firm responsibility (prime or sub?)	Sub
Project number	H.007300	Owner's name	LADOTD
Project location	Monroe, Louisiana	Owner's Project Manager	Catherine Mastin, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, (225) 379-1652, Catherine.mastin@la.gov		
Services commenced by this firm (mm/yy)	9/17	Total consultant contract cost ($1,000's)	$3000
Services completed by this firm (mm/yy)	On-Going	Cost of consultant services provided by this firm ($1,000's)	$650

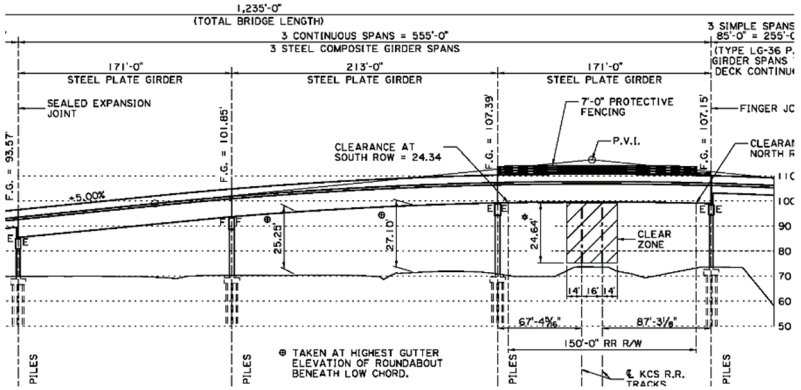
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

As a sub-consultant to Lazenby, HUVAL leads the design of all bridges for this project, consisting of 1 new bridge over I-20, 1 new bridge over LA 594 and the KCS Railroad and removal of the existing Garrett Road bridge over I-20. HUVAL is preparing final bridge plans for the LADOTD in accordance with the AASHTO LRFD Bridge Design Specifications and the Bridge Design and Evaluation Manual.

***Key Project Members*:**
David S. Huval, Sr., Principal
Thomas Gattle, Road Design Engineer
Justin Peltier, Lead Bridge Design Engineer
Reid Romero, Bridge Design QC/QA

The new Garrett Road Bridge over I-20 consists of 4, LG-36 girder spans providing a total bridge length of 380'-0" and accommodates for the future widening of I-20. The superstructure is supported by concrete column bents and pile footings. The Kansas Lane– Garrett Road Connector bridge consists of a 555'-0", 3-span continuous steel plate girder superstructure with LG-36 girder approach spans. The total bridge length is 1,235'-0". The superstructure is supported by concrete column bents and pile footings. The bridge will span over LA 594 and completely span over the KCS Railroad right-of-way. Once project is complete, it will provide an upgraded interchange at I-20 and Garrett Road and the direct connection of Garrett Road to Kansas Lane.

Huval & Associates, Inc. performed **100%** of the work for this project in the State of Louisiana.



Firm Name	**G.E.C., Inc.**		Past Performance Evaluation Discipline(s)*	**Other (Electrical)**	
Project Name	**I-10 & I-12 College Dr Flyover Ramp Design-Build**		Firm responsibility (prime or sub?)	Sub	
Project Number	H.013897	Owner's Name	LADOTD		
Project Location	East Baton Rouge Parish, 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)	Present	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

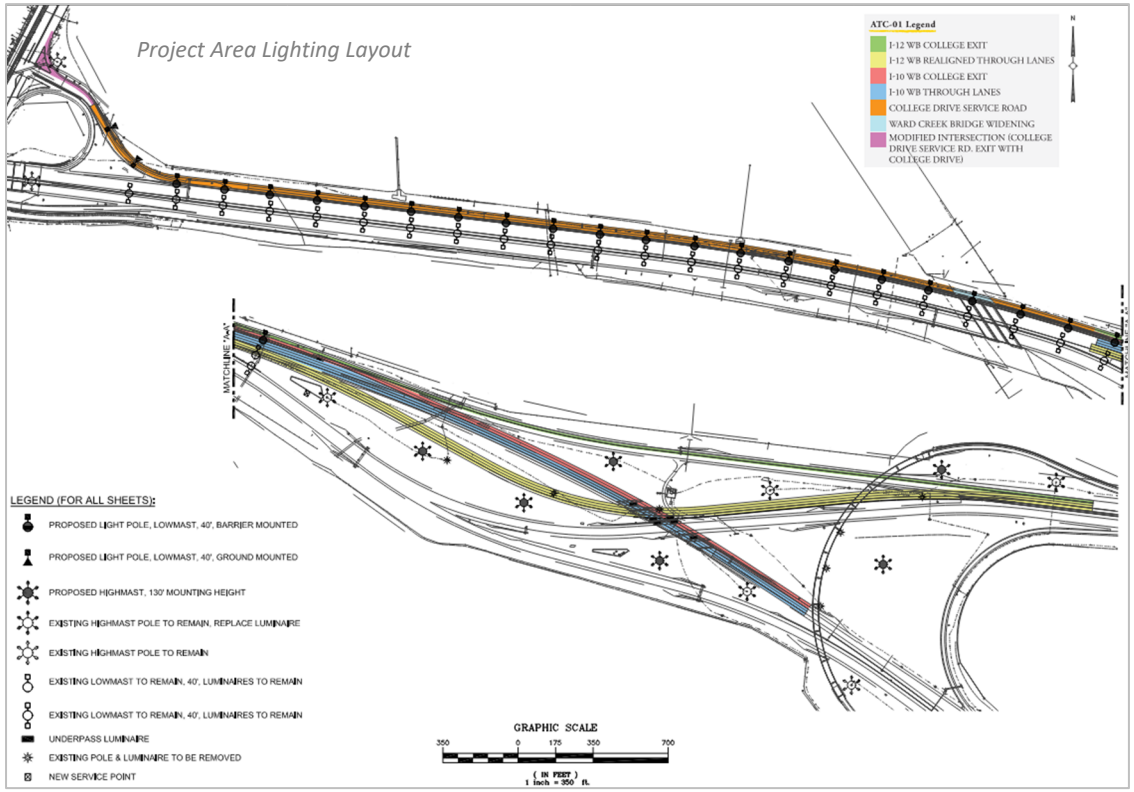
The BOH/GEC Team was selected to provide bridge design and engineering services for this Design-Build contract. The project limits include the I-10/I-12 split to the College Dr. Interchange.

GEC completed a photometric report and lighting plans for the design-build project. The lighting design consists of both high mast and low mast lighting. The design utilizes (8) new high mast light poles and (4) existing high mast light poles that will be re-used in the design. The design also includes (3) ground mount low mast light poles and (22) median barrier mount low mast light poles.

Through the design-build process, GEC was also tasked with construction engineering and inspection services for this project. This requires the review of engineering shop drawings and equipment submittals from the electrical contractor.

Construction for this project has begun, with an estimated completion of late 2022.

Firm Members Involved: Mickey Prattini, Tom Coerver, Max Churchman, Nicholas Montegut, Bowman Guttner, Luis Diaz



Firm Name	**G.E.C., Inc.**			Past Performance Evaluation Discipline(s)*	**Other (Electrical)**
Project Name	**Kansas Lane – Garrett Rd Connector**			Firm responsibility (prime or sub?)	Sub
Project Number	H.004774.5/H.007300.6	Owner's Name	LADOTD		
Project Location	Ouachita Parish, Louisiana		Owner's Project Manager	Catherine Mastin	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, Catherine.mastin@la.gov, (225) 379-1652				
Services commenced by this firm (mm/yy)	09/17	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	01/20	Cost of consultant services provided by this firm ($1,000's)		$ 22	

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

As a sub-consultant for Lazenby and Associates, GEC is responsible for the design of a new lighting system to be installed at the I-20/Kansas Lane Interchange and surrounding areas such as LA 594 (Millhaven Rd.), Garrett Rd. and the Kansas Ln.-Garrett Rd. connector bridge.

Within the project limits, there are also (5) roundabouts that require new lighting. The lighting design consists of (156) low mast light poles and (3) service entries for new secondary power controllers. Special coordination with the FAA was required due to nearby Monroe Regional Airport resulting in shorter (20') poles being utilized on the connector bridge. DOTD has decided to pursue a single 4-lane overpass over I-20 for the Kansas-Garrett Connector Project.

GEC will be tasked with designing the lighting for this addition to the project scope. The design also consists of a demolition plan for the existing lighting system requiring the new lighting system to interface with existing lighting outside of the project limits. This required close analysis of the existing lighting system and integrating certain existing equipment into the new lighting design.

Firm Members Involved: Mickey Prattini, Tom Coerver, Nicholas Montegut, Bowman Guttner, Max Churchman

Firm Name	**G.E.C., Inc.**		Past Performance Evaluation Discipline(s)*	**Other (Electrical)**	
Project Name	**Retainer Contract for Electrical Services**		Firm responsibility (prime or sub?)	Prime	
Project Number	4400002746	Owner's Name	LADOTD		
Project Location	Ouachita Parish, Louisiana		Owner's Project Manager	Joseph Douglas, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, joseph.douglas@la.gov, (225) 379-1315				
Services commenced by this firm (mm/yy)	10/12	Total consultant contract cost ($1,000's)		$ 5,000	
Services completed by this firm (mm/yy)	10/18	Cost of consultant services provided by this firm ($1,000's)		$ 4,536	

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 was selected by LADOTD for a six-year retainer contract to provide Stage 3 (design – Part I, III, and IV) and Stage 5 (construction – Part I and II), services. Design services included preparation of construction plans, specifications and special provisions, feasibility studies, construction cost estimates, photometric analysis of new and existing systems, and engineering calculations (including structural and arc flash analysis). GEC also provided construction related engineering services for existing and proposed roadway lighting projects including shop drawing and submittal reviews. In addition, the scope of work included the performance of independent reviews on lighting and enhancement projects (designed by others) and for permit review as submitted by the DOTD Project Manager. Finally, GEC performed other electrical design and construction services as requested by LADOTD.

For this contract, GEC was prime with one sub-consultant for survey tasks. This retainer contract included two pilot projects to install the first two LADOTD interstate lighting systems using LED high mast and LED low mast roadway lighting. Various lighting was included on these contracts including high mast, low mast, underpass, navigation, and aviation. A total of 21 task orders were executed; selected projects included:

- Project No. H.010440, I-210 Over Calcasieu River West of I-10 Interstate Lighting – Lake Charles, LA
- Project No. H.003452/H.000687, I-12 @ Northshore Blvd. Interchange Lighting/ US-11 Interchange Lighting – Slidell, LA
- Project No. H.010916, LADOTD, Prien Lake Main Span Re-Dec, Lake Charles, LA
- Project No. H.012469, LADOTD, US 190: Miss River Br – Navigation Light Replacement, Baton Rouge, LA
- Project No. H.012601.5/H.012602.5, LADOTD, Read Blvd Interstate Lighting/ Morrison Road Interstate Lighting, New Orleans, LA
- Project No. H. 003495 & H.011111, I-49 North (I-220 – MLK Drive) Segment K – Shreveport, LA.
- Project No. H.000687, I-12 @ US-11 Interchange Lighting – Slidell, LA.
- Project No. H.010720, I-12 @ LA 1088 Interchange Lighting – Slidell, LA.
- Project No. H.009185, LADOTD, I-12 Northshore/Airport Rd. - US 11, Slidell, LA.
- Project No. H.010171, LADOTD, COA Versailles Blvd. Roadway Lighting, Alexandria, LA.
- Project No. H.003451, LADOTD, LA 434 Interchange Lighting (Lacombe), Slidell, LA.
- Project No. H.012602.5, LADOTD, Morrison Road Interstate Lighting, New Orleans, LA.

As part of this retainer contract, GEC regularly coordinated with multiple local, state, and federal agencies and entities. These included: Federal Aviation Administration, United States Coast Guard, Amtrak and Kansas City Southern railroads, New Orleans Parks and Parkways, LADOTD Electrical, Road, and Bridge Design, various electrical contractors and other design consultants.

Firm Members Involved: Mickey Prattini, Tom Coerver, Bowman Guttner, Max Churchman, Nick Montegut

Firm name	Neel-Schaffer, Inc.		Past Performance Evaluation Category(ies)*	Traffic/Road	
Project name	**I-10/12 College Flyover Ramp Design Build**		Firm responsibility (prime or sub?)	Sub	
Project number	H.013897	Owner's name	LADOTD		
Project location	Baton Rouge, LA		Owner's Project Manager	Catherine Mastin, P.E.	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804, (225) 379-1652, Catherine.Mastin@LA.GOV				
Services commenced by this firm (mm/yy)	08/20	Total consultant contract cost ($1,000's)		$971	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$971	

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 category included in the advertisement, then indicate which past performance evaluation category(ies) this project is being used to represent.

This project improves the safety and flow of traffic between the I-10/I-12 Split and College Drive by eliminating lane changes that must occur when I-10 WB traffic exits at College Drive. The proposed project realigns the two existing I-12 WB through lanes to more closely follow the I-12 EB existing alignment and replaces the I-10 WB Overpass Bridge with a new structure. In addition, the project physically separates College Drive NB from the free flow lane which connects the I-10 WB exit ramp to Corporate Boulevard. NSI is tasked with performing the traffic engineering and modeling, Interstate Modification Report, Transportation Management Plan (TMP) and is providing the Independent Technical Review for Roadway Design and Traffic Control Plans.

NSI tasks include:

- **Field Observations**
- **VISSIM Modeling**
- **Prepare the Interstate Modification Report**
- **Transportation Management Plan (TMP)**
- **Independent Technical Review (ITR) for the Roadway Design and Traffic Control Plans.**

NSI personnel involved in the project include

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Key personnel involved: Jerry Trumps (Principal), Nick Ferlito (Traffic Project Manager), Ellen Howard (Traffic), Vijay Kunada (TMP and Mesoscopic Modeling), Dishili Young (ITR), Mai Nguyen (ITR), Charles Adams (ITR TCP and TMP), Kirk Gallien (ITR TCP and TMP), Jonathan Duhe, William Case Fulcher, Sen Skaikay.

Firm name	Neel-Schaffer, Inc.		Past Performance Evaluation Category(ies)*		Road/Traffic
Project name	**I-49 South @ Verot School Road**		Firm responsibility (prime or sub?)		Sub
Project number	H.011235.5	Owner's name	LADOTD		
Project location	Lafayette Parish		Owner's Project Manager	Corey Landry, PE	
Owner's address, phone, email	1202 Capitol Access Road, Baton Rouge, LA - 70802, Phone: 225-379-1889, Email: corey.landry@la.gov				
Services commenced by this firm (mm/yy)	07/16	Total consultant contract cost ($1,000's)			$724
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			$724

This project will provide 2.4 miles of mainline freeway and an interchange at the intersection of I-49 South/US 90 and Verot School Road, in Lafayette, LA. The proposed project also includes one-way frontage roadways on both sides of the mainline freeway, a two-way service road, MSE walls, and a new alignment for Verot School Road which includes a multilane roundabout at the relocated intersection of South College and Verot School Road. This project will include close coordination with BNSF RR due to crossings and drainage impacts associated with the mainline corridor.

Neel-Schaffer, Inc. is providing the **design services** for the proposed interstate, frontage roadways, and associated drainage. NSI is also providing **traffic study, VISSIM animation, safety study, traffic signal design services and the Transportation Management Plan** for the entire project. This project is currently in the preliminary design phase with plans to continue to final design in the immediate future.

Challenges:

1. Fitting a six lane interstate, 2-three lane frontage roads and a two lane service road within the existing US 90 right-of-way with adjacent existing railroad.
2. Due to restricted ROW and existing developments a separate clear zone could not be provided for the frontage road and mainline.

Solutions:

1. The vertical alignment for each roadway (Mainline, NB Frontage Road. SB Frontage Road, Service Roads) and their associated drainage swales were designed with consideration on how each separate alignment impacts the other roadways and the project footprint. An allowable range (high elevation and low elevation) was identified for each alignment. This range varied along the project length based on the existing conditions and geometric requirements for the proposed corridor. An iterative approach was used to create each vertical alignment so that it met the design guidelines while remaining in the allowable elevation ranges.

2. NSI completed a Safety analysis using FHWA IHSDM Software to show the predicted number of crashes would decrease if outside barrier were replaced with a shared clear zone between the frontage roadway and mainline, **saving $4.5M in barrier cost, reducing the required ROW, and Increasing safety.** This study evaluated the proposed horizontal geometry with and without the barrier.

Key personnel involved: Vijay Kunada (PM, Traffic forecast & analysis), Nick Ferlito, Chance Shuckrow, and Charles Adams

Firm name	Neel-Schaffer, Inc.		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	Kansas Lane-Garrett Road Connector and I-20 Improvements		Firm responsibility (prime or sub?)	Sub	
Project number	H.004774.5 & H.007300.6	Owner's name	LADOTD		
Project location	Ouachita Parish, LA		Owner's Project Manager	Catherine Mastin	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225-379-1652, Catherine.mastin@la.gov				
Services commenced by this firm (mm/yy)	02/18	Total consultant contract cost ($1,000's)	$176.68		
Services completed by this firm (mm/yy)	On going	Cost of consultant services provided by this firm ($1,000's)	$176.68		

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.

The Kansas Lane-Garrett Road Connector and I-20 Improvement project involves the widening of Garrett Road, the replacement of the existing Garrett Road bridge over Interstate 20. The project also involves the improvement of the I-20 off/on ramps by adding roundabouts at the intersections with Garrett Road as well the construction of a new bridge along Garrett Road over the KCS rail line. A new roundabout intersection will be constructed at Garrett Road and Kansas Lane with the addition of a new lane along Kansas Lane and the installation of a new traffic signal at the intersection of LA 594 (Millhaven Road) and Kansas Lane.

NSI's role in the project is to prepare a Traffic Management Plan (TMP) for the project, review the sequence of construction and review the Maintenance of Traffic (MOT), develop temporary traffic signal plans for the four existing signalized intersections within the project during each phase of construction and develop permanent signal plans for the intersection of LA 594 (Millhaven Road) and Kansas Lane.

Key personnel involved: **Charles Adams**, Traffic Engineering: TMP, preliminary and final signal plans, **Ellen Howard,** Traffic Engineering: preliminary TMP, **Kirk Gallien**, Traffic Engineering: QA/Q

17. Firm Experience:

Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Category(ies)*	TM	
Project name	I-10 ITS Scott to Lake Charles		Firm responsibility (prime or sub?)	sub	
Project number	H.013256.5	Owner's name	DOTD		
Project location	I-10 (District 07)		Owner's Project Manager	Roy Esteven, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-2527, Roy.Esteven@LA.gov				
Services commenced by this firm		01/21	Total consultant contract cost ($1,000's)		unknown
Services completed by this firm		03/21	Cost of consultant services provided by this firm ($1,000's)		$20,162

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

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

100% of the work on this Project was performed in Louisiana.

Key Personnel Involved:

- Laurence Lambert
- Prasanth Malisetty
- Reece Rodrigue
- Kristen Farrington

17. Firm Experience:

Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic & CE&I	
Project name	Belle Chasse Bridge & Tunnel Replacement PPP		Firm responsibility (prime or sub?)	sub	
Project number	H.004791	Owner's name	DOTD		
Project location	Belle Chasse, LA		Owner's Project Manager	Nickolas Olivier, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1133, Nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)	unknown		
Services completed by this firm (mm/yy)	current	Cost of consultant services provided by this firm ($1,000's)	211.890		

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

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

100% of the work on this Project was performed in Louisiana.

Key Personnel Involved:

- Brin Ferlito
- Laurence Lambert
- Prasanth Malisetty
- Bridget Malisetty
- Reece Rodrigue

17. Firm Experience:

Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Category(ies)*	TM	
Project name	Roundabout: US 171 at Boone St.		Firm responsibility (prime or sub?)	sub	
Project number	H.011909.5-4	Owner's name	DOTD		
Project location	Vernon Parish, LA		Owner's Project Manager	Josh Harrouch	
Owner's address, phone, email	PO Box 94245 Baton Rouge, LA 70804-9245, (225) 242-4640, Joshua.Harrouch@LA.GOV				
Services commenced by this firm	11/20	Total consultant contract cost ($1,000's)	unknown		
Services completed by this firm	12/21	Cost of consultant services provided by this firm ($1,000's)	$82.045		

Vectura designed temporary traffic signal plans as part of the sequence of construction plan for a roundabout construction at the intersection of US 171 at Boone Street in Leesville, LA. The purpose of the project was to replace the existing signalized intersection with a multilane roundabout at Boone Street.

Roundabout Pavement Marking QC Review
Staff from Vectura provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.

Temporary Traffic Signal Design
Vectura performed following design tasks to develop temporary traffic signal plans:

- Detailed study of sequence of construction plans to determine the optimal traffic signal operation and required traffic signal equipment for each sequence of construction phase,
- Reviewed potential access issues for all the impacted driveways / streets along the project area for each sequence of construction phase,
- Developed multiple traffic signal timing plans by time of day for each sequence of construction phase to maintain progression along main corridor,
- Developed temporary signal plans including pole and span wire layout, signs, striping, power source, signal timings by time of day, vehicle detection, signal head placement, wiring diagram, pole height calculations, clearance calculations, quantities, construction cost estimate, and
- Coordinated with DOTD Traffic Section and District Traffic Engineer.

100% of the work on this Project was performed in Louisiana.

Key Personnel Involved:

- Brin Ferlito
- Prasanth Malisetty
- Reece Rodrigue
- Laurence Lambert
- Bridget Robicheaux

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, Environmental
Project name	**US 165 Connector and Ouachita River Bridge EIS, Line and Grade and Toll Study**			Firm responsibility (prime or sub?)	Prime
Project number	4400004807 / H.004782	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Ouachita Parish, Louisiana			Owner's Project Manager	Tim Nickel
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1110, timmothy.nickel@la.gov				
Services commenced by this firm (mm/yy)	05/12	Total consultant contract cost ($1,000's)			$1,981
Services completed by this firm (mm/yy)	11/21	Cost of consultant services provided by this firm ($1,000's)			$1,363

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

Firm's Role: Conceptual design; alternatives development for NEPA compliance; bridge/ road line and grade analysis; extensive wetland investigation; socioeconomic and Environmental Justice analysis; visual imagery; toll study coordination; air and noise analysis/modeling; Phase I ESA; stakeholder/ public outreach; USCG navigable waterway coordination; traffic engineering & analysis.

Firm Members Involved: Akhil Chauhan, Thomas Montz, and Greg Badon.

Relevant Services

- Extensive Alternatives analysis and development
- High Level of Agency and Stakeholder coordination
- Multiple public meetings, newsletters, and updates for the community.
- Wetland investigation & Biological Resources report
- USCG Navigable Waterway Coordination
- Levee Board Coord.
- Noise Modeling Analysis
- Traffic Engineering & Analysis

Discussed for more than 40 years, the "4th Bridge" in Monroe would provide needed transportation system linkage in the north region, whose population density and development continues to grow. The proposed bridge and approaches would connect LA 143 to US 165, which both serve as main north-south arterials for Ouachita, Union, and Morehouse parishes. This facility would also provide a section of independent utility for a future planned loop roadway around the cities of Monroe and West Monroe, Louisiana.

The challenge was to identify the overall, least environmentally-damaging, practicable alternative crossing of the Ouachita River between LA 143 and US 165. Flanked by the high-functioning and basin-valuable Chauvin Bottomland Hardwood Swamp, the Ouachita River in the project area has a current and meander in the south that limit in-river bridge pier placement due to navigation hazards. The project team's approach was to avoid and minimize wetlands traversed by approaches connecting to Ouachita River crossing locations that were acceptable to the USCG. Alignment segments were identified and combined into 183 unique alternative alignments on three acceptable Ouachita River crossings. A trade-off analysis utilizing GIS data on wetlands and structures identified alternatives that both avoided and minimized impacts to wetlands while also minimizing adverse effects to the built environment. With further application of priority-tiered screening data sets, three alternative corridors were identified on which detailed analysis commenced.

Part of the detailed analysis included a study of existing noise levels due to traffic. The existing noise levels were assessed during field visits. Future noise levels were modeled utilizing TNM 2.5 software. Noise barrier feasibility was also assessed. In addition, a qualitative assessment of air impacts due to traffic was conducted.

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*	Bridge, Road
Project name	**Rural Bridge Replacement Initiative Phase II, LADOTD**			Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	Sigma Consulting Group, Inc.		
Project location	**Districts 02, 03, 07, 61, and 62**			Owner's Project Manager	Mr. Greg Sepeda
Owner's address, phone, email	10305 Airline Hwy, Baton Rouge, LA 70816, 225 298 0800, gsepeda@sigmacg.com				
Services commenced by this firm (mm/yy)	01/2021	Total consultant contract cost ($1,000's)			$540
Services completed by this firm (mm/yy)	11/2021	Cost of consultant services provided by this firm ($1,000's)			$540

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

Firm's Role: Solicitation of Views, Wetland Studies, NEPA Categorical Exclusions, USACE Nationwide Permits, LADNR Coastal Use Permits

Firm Members Involved: Jason Morrell

Arcadis is responsible for completing all environmental services for Phase II of LADOTD's Rural Bridge Replacement Initiative in Districts 02, 03, 07, 61 and 62. This contract consists of 16 state projects involving 29 bridge replacements. A description of main project components is provided below:

Solicitation of Views: Solicitation of Views (SOV) letters and information packets are prepared and distributed to federal, state, and local agencies, organizations, and individuals. Responses from these groups are compiled and assist with the identification of possible adverse economic, social, or environmental effects from the project or other related concerns.

Wetland Studies: Field delineation and GPS location of all wetlands and waters of the U.S. within the vicinity of each project are completed. Wetland Finding Reports are then prepared detailing the results of field studies including GIS figures, photographs, and USACE delineation data forms.

PCE Checklist: LADOTD Environmental Checklist for Categorical Exclusions are prepared for each project documenting compliance under the National Environmental Policy Act (NEPA) and other applicable environmental laws. The checklist includes SOV responses, Wetland Findings Report, exhibits/maps, and agency coordination.

Permitting: For projects impacting wetlands or other waters, a Nationwide Permit (NWP) application may be prepared and submitted to the U.S. Army Corps of Engineers (USACE) pursuant to Section 404 of the Clean Water. For project in the LA Coastal Zone, a Joint Application is prepared and submitted to the LA Dept. of Natural Resources (LADNR) for a Coastal Use Permit and NWP.

PROJECT RELEVANCE

- **Key Challenges:** Completing environmental tasks for multiple projects concurrently. Balancing agency and public concerns with design requirements for bridge replacement.
- **Innovation & Best Practice:** Utilize industry leading GPS technology and Arcadis proprietary FieldNow digital app to capture field data efficiencies.
- **Accomplishments:** Completed SOVs, Wetland Studies, and Environmental Checklists for the first six projects on schedule with little to no comments form LADOTD.

Firm name	ARCADIS		Past Performance Evaluation Discipline(s)*	Traffic, Environmental, Road, Bridge
Project name	**Kansas Lane – Garrett Road EA/IMR and Roundabout Analysis**		Firm responsibility (prime or sub?)	Prime
Project number	SP No. 700-37-0119 FAP No. IM-3704(508)	Owner's name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	Ouachita Parish, Louisiana		Owner's Project Manager	Quang "Wayne" Nguyen
Owner's address, phone, email	1201 Capitol Access Road Baton Rouge, LA 70802, 225 379 1957, quang.nguyen@la.gov			
Services commenced by this firm (mm/yy)	09/09	Total consultant contract cost ($1,000's)		$871
Services completed by this firm (mm/yy)	03/11	Cost of consultant services provided by this firm ($1,000's)		$997

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

Firm's Role: Environmental Assessment for the analysis of five roundabouts including IMR services, line and grade services, traffic analysis, and noise analysis.

Firm Members Involved: Akhil Chauhan

To address congestion, mobility and connectivity, LADOTD proposed improvements to the Kansas Lane/Garrett Road connection and the Garrett Road/I-20 interchange that would include a crossing of the Kansas City Southern railroad. Commercial development including a regional shopping mall and several new developments in the region provided a need for the project to address congestion.

Relevant Services

- Assessed feasibility of multiple design concepts including a typical interchange and railroad underpass design
- Railroad at-grade and elevated crossing design and coordination
- Detailed traffic operational and safety analysis
- Close coordination with the city, Chamber, and I-20 Economic Development Corporation

The project team worked closely with LADOTD and FHWA to develop four new concepts and refine six alternatives. Arcadis conducted a tiered traffic analysis identifying fatal operational flaws before completing the detailed traffic analysis. Projected traffic operations resulted in additional concept evaluation and optimization. Analysis of the railroad crossing included consideration of a tunnel versus overpass as well as alternative locations for the existing at-grade crossing.

By incorporating and refining value engineering recommendations for the overpass bridge and approaches, adjustments were made to the design to reduce costs. Pedestrian access to the adjacent Pecanland Mall area, both at grade and on structure was incorporated in the project alternatives development. Several unique alternative configurations for the Garrett Road and Millhaven Road intersection were proposed by LADOTD. Arcadis utilized Synchro to model traffic operations and signalization options, and SIMTraffic to address queuing and weaving issues. The contract was supplemented in the fall of 2013 to include roundabout analysis in compliance with LADOTD EDSM V.1.1.5 (Analysis) and EDSM V.1.1.6 (Design) for six separate intersections within the study area.

18. Approach and Methodology:

1.0 - Understanding of Project Scope:

The project involves improvements to Interstate 20 (I-20) in Ouachita Parish through the addition of an inside travel lane and shoulder with median barrier from Well Road to LA 34. Additionally, I-20 will receive a mill and overlay of the existing travel lanes and shoulders from Vancil Road to LA 34. Finally, outside auxiliary lanes will be constructed from the Thomas Road (LA 617) interchange to the Stella/Mill (LA 34) interchange. The project also includes drainage, lighting, signing modifications, and structure modifications associated with the widening.

In the course of performing the necessary work, the **Lazenby Team will utilize all standard design guidelines typical for these types of projects**, including, but not limited to, the following:

- LADOTD *Location and Survey Manual*
- LADOTD *Roadway Design Procedures and Details Manual*
- LADOTD Minimum Design Guidelines
- LADOTD *Hydraulics Manual*
- LADOTD *Bridge Design and Evaluation Manual*
- LADOTD *Sign Manual*
- LADOTD *Pavement Markings Manual*
- LADOTD *Traffic Engineering Manual*
- LADOTD Transportation Management Plans (EDSM VI.1.1.8)
- AASHTO's *A Policy on Geometric Design of Highways and Streets*
- AASHTO's *Roadside Design Guide*
- *Manual on Uniform Traffic Control Devices for Streets and Highways*

2.0 - Project Approach:

2.1 – Traffic Engineering Services

Traffic Engineering services will be performed by Neel-Shaffer, Inc., (NSI) and Vectura Consulting Services, LLC, (VCS) with support from other team members as needed. **The Consultant Team's approach to traffic engineering embraces the ideas and philosophies enumerated in the Traffic Engineering Process and Report (TEPR).** A TEPR compliant study will be conducted in accordance with the RFP and EDSM VI.1.1.2 to support all aspects of preliminary engineering and design services for the project.

Initial counts will be conducted to identify the peak periods for the study area. Additional 48-hour counts, geometric checks, and turning movement counts with demand, along with peak hour observations, will be conducted at each interchange within the project area. Spot speed studies will also be conducted along I-20 to validate speed inputs for HCS analysis. NSI will using the North Delta Regional P & DC (Monroe MPO) Travel Demand model to develop growth rates for the study area to establish 2043 No Build volumes. The existing data collection will be submitted to DOTD for review in accordance with the required deliverables outlined in the TEPR.

Highway Capacity Software (HCS) will be used to evaluate existing and no build traffic operations of the I-20 system (freeway segments, ramp merges, ramp diverges and ramp terminal intersections). This analysis will document the existing and no build measures of effectiveness (MOE) associated with freeway segments, ramp merges/diverges, and ramp terminal intersections. The existing safety analysis along I-20 within the study area will use Cat Scan to evaluate the latest 3 years of crash data to identify trends in crashes. Crash reports will be read and analyzed including a QA of Cat Scan to a Quality Assurance of 90%. In addition, collision diagrams will be prepared as needed. Based on the analysis, NSI/VCS will provide a crash analysis summary documenting potential cause of correctable crashes**. NSI and VCS staff are efficient with using DOTD's Cat Scan tool and have attend LADOTD's training on the tool**. NSI staff is also efficient in accessing LADOTD and local crash data from Crash1 and Crash3 (local) databases. The existing and No Build Analysis will be submitted to DOTD for review in accordance with the deliverables outlined in the TEPR.

The team will use the conceptual layout developed by DOTD District 05 to develop centerline layouts for the alternative. NSI will develop redistributed 2043 build volumes along I-20 within the study area for the proposed alternative. These redistributed 2043 build volumes will be used to evaluate the proposed alternative using HCS. HCS will evaluate the proposed freeway segments, ramp merges/diverges, weave segments and ramp terminal intersections. It should be noted that the ramp terminal intersections will be evaluated using existing/no build geometry. This analysis will document the existing and no build MOE. NSI/VCS will provide a conflict point comparison of the proposed alternative and the existing/no build condition along I-20 within the study area. Also, on previous projects NSI has also evaluated interstate road safety improvement alternatives using the Interactive Highway Safety Design Model Software (IHSDM).

The alternative analysis will be performed in conjunction with the critical geometry/Design Guideline Report, and will be submitted to LADOTD for review and approval in accordance with the deliverables outlined in the TEPR. Upon approval to the Alternative Analysis, NSI will prepared a completed, stamped and signed, Final Traffic Study Report to include the approved Executive Summary, Introduction, Chapter 1, Chapter 2, Chapter 3 and Appendices A, B, C, D and E.

A level 4 TMP will be developed in accordance with requirements defined in EDSM VI.1.1.8. **Required analyses will utilize collected traffic and safety data to assist in the development of construction phasing and impact management strategies for the project.** The consultant team will coordinate with LADOTD HQ and District 05 to establish roles and responsibilities for the TMP, and involve responsible parties in the development of the TMP to ensure that proposed strategies are sensitive to the context of the project area and address local concerns.

Permanent signing plans will be developed to accommodate proposed improvements to the I-20 mainline, ramps, and ramp terminals**. The goal of the proposed signing layout is to provide clear instructions and advance notice of roadway conditions such that motorists can navigate safely and efficiently to their desired destination.** The limits of signing improvements will include all signs within the project limits, and signs outside of the project limits that are impacted by proposed roadway improvements (up to 2.5 miles on either end of the project). If any impacts to signs beyond these limits are identified, the Consultant team will notify DOTD promptly.

2.2 – Environmental Services

Environmental services will run concurrently with design and plan preparation. Arcadis will perform the necessary environmental services as further described below.

For Wetland Studies, Arcadis team members will first complete a preliminary desktop review of available GIS mapping and databases to identify potential wetlands and other waters of the U.S. in the project area. Ecologists will then complete field delineation and GPS location of all wetlands and other waters of the U.S. within the project limits and collect the data necessary for preparing a Wetland Findings Report per LADOTD standards. Upon completion of fieldwork, we will prepare a Wetland Findings Report with required figures, photographs, and data forms with quality assurance/quality control reviews completed by senior ecology staff. Locations of wetlands and other waters from GPS survey will be exported to project designers for overlay on preliminary plans and identification of associated impacts. **The environmental team will work with designers to avoid/minimize impacts to wetlands and other waters to reduce permitting requirements and mitigation costs to the maximum extent practicable**, while balancing project construction cost. Once final plans are approved by LADOTD, Arcadis will work with designers to prepare permit drawings per U.S. Army Corps of Engineers standards for delivery and incorporation into LADOTD's permit application.

The Arcadis communication team will develop a public involvement plan for engaging stakeholders and the public through a public meeting, following guidance from the LADOTD Manual of Standard Practice, NEPA and FHWA. The plan will identify stakeholders in the project boundaries and build a database of contacts. The stakeholders will be key to establishing an outreach network to provide information and seek input from stakeholders and the public. Diversity will be a key component of public outreach activities with multiple opportunities to reach a wide variety of citizens, including Environmental Justice (EJ) populations, Limited English Proficiency (LEP) populations, low mobility populations and other groups that are typically underrepresented or have unique needs. The public involvement plan will also include outreach to local media, public social media networks, public libraries, and others to provide information to local governments, stakeholder groups and the public. The plan will be submitted to LADOTD for approval prior to making arrangements for the public meeting.

Upon LADOTD approval of the public involvement plan, the communication team will manage all tasks for the public meeting including arranging the venue, preparing and mailing public notices, assisting design with meeting exhibits, preparing multi-media presentations and handouts, and providing a translator and transcriber for public comments. The public meeting will follow all guidelines for public safety and accessibility. Communication staff will conduct the meeting with environmental staff and project designers in attendance to address public inquiries regarding project-related environmental issues. Following the meeting, a Public Meeting Record will be compiled including all comments received prior to and during the meeting. The Record will be delivered to LADOTD along with a comment matrix detailing a response to each comment and transcripts of all comments received during the public meeting.

2.3 – Roadway Design

Lazenby & Associates, Inc., will be responsible for roadway design on this project. The project site is located approximately 1.2 miles from Lazenby's office. The I-20 corridor, including the area within the project limits, is frequently driven by Lazenby and Neel-Shaffer personnel, giving members of the team a unique understanding of the traffic and safety issues currently being experienced by the public. Additionally, **Lazenby & Associates, Inc., is currently performing a topographic survey of the project** for LADOTD under a topographic IDIQ contract.

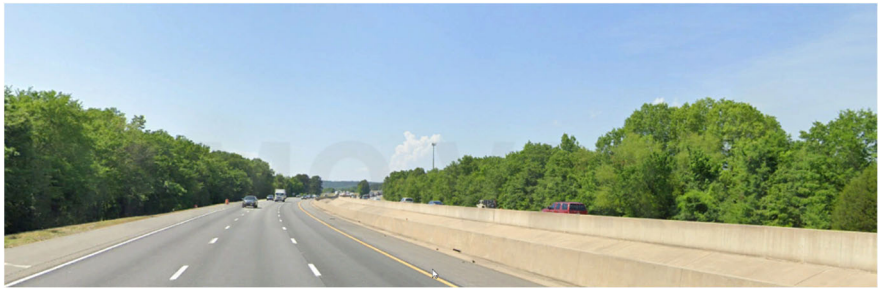
Appropriate roadway design criteria will be established based on the LADOTD Minimum Design Guidelines, and a Design Report Form documenting the project's design guidelines will be submitted**.** The **roadway design will be performed in accordance with LADOTD standards** and the previously mentioned manuals and publications.

We anticipate no impacts to the I-20 right-of-way west of Thomas Road (LA 617). Potential right-of-way impacts due to the addition of the auxiliary lanes east of Thomas Road will be minimized to the extent possible.

An important aspect of roadway design on any project is **maintenance of traffic** during construction, especially on a high-ADT roadway such as an interstate highway. **The suggested sequence of construction will be coordinated with the team's traffic engineers to minimize adverse impacts to the traveling public** to the extent possible.

A couple of potential challenges have been noted during our site visits. One such challenge is the fact that there is a frontage road north of I-20 between Thomas Road (LA 617) and Stella Street (LA 34). The south edge of the frontage road is approximately 40 feet north of the westbound I-20 shoulder. When the westbound auxiliary lane is added, this distance will be reduced to approximately 28 feet. It will be critical to maintain adequate drainage between I-20 and the frontage road to prevent water from ponding onto the outside of westbound I-20 during heavy rainfall events.

I-20 will be widened to the inside using the existing cross slopes (assuming there is no slope correction required during the overlay process). The design team has noted that, due to the superelevation of the eastbound and westbound roadways and the grades of the existing roadways, there will be a grade differential at the proposed median barrier through a horizontal curve west of Thomas Road (LA 617). We intend to address this issue with dual barrier rails and a paved ditch, similar to what is depicted in the attached photograph.



2.4 – Structural Design

Huval, as a sub-consultant, will be tasked with the structural engineering role for this project, which include concrete median barriers and non-standard (designs not enveloped within the current DOTD standard plans) overhead and cantilever sign trusses with associated foundations.

Concrete median barriers will be designed to accommodate mounting for sign trusses, roadway lighting, existing bridge piers and grade separations. The median barrier will be self-supporting and designed to meet MASH TL-4 requirements. The shape and reinforcing details will be in accordance with current LADOTD standards of practice. When used as bridge column/pier protection, the **barriers will also be designed and detailed to meet the pier protection requirements of the AASHTO LRFD Bridge Design Specifications, Chapter 3, Section 3.6.5.1**. All mounting components to accommodate roadway lighting and sign trusses will be considered in the design and plan development process.

Roadway lighting foundations and non-standard overhead and cantilever sign trusses and their foundations will be another structural design facet of this project. The design details of these components will provide functionality, durability, corrosion protection and ease of inspection and maintenance. Where necessary design of sign trusses and roadway lighting foundations will coincide with the mounting transitions on median barriers. Huval will perform and evaluate all existing sign trusses which are anticipated to remain after the widening project is complete and review existing inspection reports. If it is determined that any of these structures have limited-service life remaining or are structurally inadequate for the proposed sign area, LADOTD will be notified, and recommendations provided. Preliminary and final plans will be developed based on agreed to design recommendations and specifications.

2.6 – Lighting Design

GEC will perform lighting design services on this project. Existing low-mast lighting locations are in conflict with the proposed roadway design, requiring the installation of new lighting to meet LADOTD lighting standards for interstate highways. GEC has successfully implemented network capable lighting systems and new lighting design in previous projects. This experience will be utilized in the design of this project as proposed below.

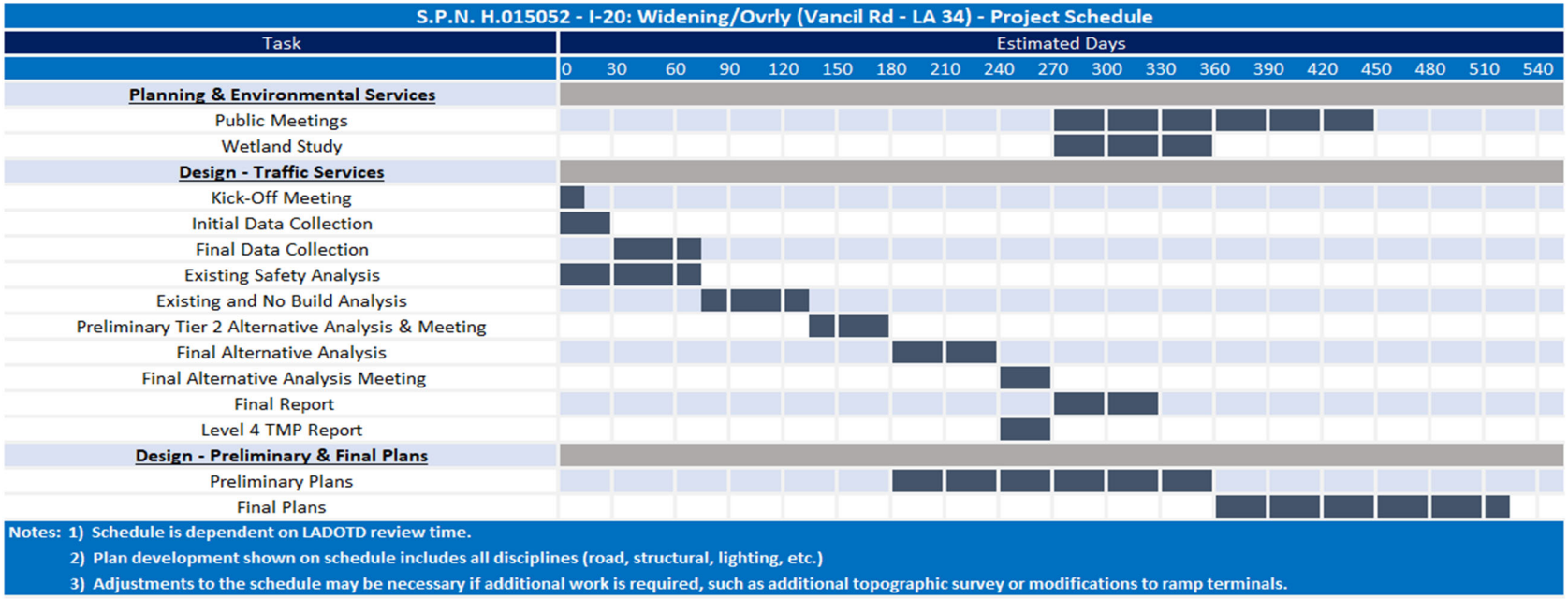
The existing lighting along I-20 consists of roadside ground mount low mast single-arm light poles with high-pressure sodium luminaires. The interchanges at I-20/LA-34 and I-20/LA-617 utilize ground-mounted low-mast double-arm poles with high-pressure sodium luminaires. Existing underpass lighting at each of the interchanges is also high-pressure sodium.

High Mast lighting offers maintenance advantages. **GEC proposes a hybrid lighting design with an emphasis on High Mast lighting.** GEC's design along the I-20 mainline would incorporate a quantity of 19, 130-ft, 6 ring Luminaire ground-mounted High Mast poles with new 130-ft High Mast poles with a six (6) luminaire ring containing HMLED4-P5-30K High Mast LED Luminiares. GEC's design would utilize Low Mast single- and double-arm poles as appropriate at interchange locations and along ramps. All new High Mast and Low Mast luminaires will be 3000k LED. New LED underpass luminaires will replace underpass luminaires at all interchanges.

GEC's design will include a new service point and lighting controller containing a photocell and associated lighting circuitry, along with new conduit and conductors, due to the addition of High Mast and Low Mast luminaires. This will ensure voltage drop will not exceed the maximum allowed five percent (5%). **Utilization of new lighting circuity will maximize safety regarding arc flash and circuit loading, providing LADOTD with the capability for future lighting expansion.** LED luminaires will be capable of network control by means of intelligent street lighting and remote-control equipment. This **equipment will give LADOTD the capability to remotely control, monitor, and measure the lighting system's efficiency and reduce maintenance.**

3.0 – Proposed Schedule:

A proposed project schedule has been developed and is shown below. It is recognized that project time is considered **critical,** and that the contract time is 530 calendar days. The Lazenby team will devote the necessary resources to ensure the timely delivery of milestone submittals and meet the overall schedule.



19. Workload:

For all contracts where a firm on the team is a prime consultant or sub-consultant and where a) the consultant selection was made by DOTD, and b) a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

1) one of the team's firms is responsible for the performance of the work;
2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
3) the work has not yet been performed and invoiced; and
4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.
List only the portion of the fees attributable to firms on the team.

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Lazenby & Associates, Inc.	SURVEY	4400012667 (L&A 18S008.00)	Retainer Contract for Professional Surveying Services – Statewide (Property Surveys and ROW Maps)	
		H.012033.5	T.O. #14: LA 143 & LA 594: Cross Bayou & Caney Creek Bridges, Ouachita Parish (30.00% Complete) Time Suspended	$20,847
		H.010616.5	T.O. #16: I-20 :LA 544 Overpass Replacement, Lincoln Parish (60.00% Complete) Time Suspended	$11,913
		H.012842.5	T.O. #20: LA 3102 @ Larto Lake & LA 124 (Seg 2 & 3), Catahoula Parish (40.00% Complete) Time Suspended	$49,879
		H.008230.5	T.O. # 21: LA 838: Steep Bayou Bridge Replacement, Ouachita Parish (60.00% Complete) Time Suspended	$9,697
		H.012032.5	T.O. #22: LA 2: Bridges Near Mer Rouge, Morehouse & West Carroll Parishes (60.00% Complete) Time Suspended	$15,119
		4400012668 (L&A 18S040.00	IDIQ Contract for Hydrographic Surveying Services – Statewide (Districts 04, 05, 08 & 58)	
		H.008768.5	T.O. #15 Hydrographic Survey Monitoring of Existing Bridge (25% Complete)	$65,371
		4400015236	IDIQ Contract for Topographic Surveys – Statewide (Districts 04, 05, 08 & 58)	

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Lazenby & Associates, Inc.	SURVEY	H.012541.5	T.O. #12: LA 594: Overpass – I-20, Ouachita Parish (85% Complete)	$26,424
		H.012541.5	T.O. #15: LA 594: Overpass – I-20 (Additional) Ouachita Parish (85% Complete)	$6,244
		H.011428.5	T.O. #16: Green acres to LA 72 Corridor Study Bossier Parish (0.0% Complete) No P.O. to Date	$275,386
		4400017710 (L&A 19S056.00)	IDIQ Contract for Topographic Surveys - Statewide	
		H.015052.5	T.O. #1: I-20 Widening and Improvement (Vancil Road to LA 34) Ouachita Parish	$393,871
		4400019714 (L&A 20S038.00)	IDIQ Contract for Hydrographic Surveys – Statewide (Districts 04, 05, 08 & 58)	
			No Task Order Issued To Date	N/A
	ROAD	440010428 H.004774.5 (L&A 17E051.00)	Kansas Lane – Garrett Road Connector & I-20 Improvement, Ouachita Parish (98% Complete) (Road Design – Urban & Road Design – Controlled Access)	$17,583
Huval & Associates, Inc.	Bridges	H.011235	I-49 South @ Verot School Road Lafayette Parish – Design Phase Supp. #1 & 2	$50,045
		H.004774.5	Kansas Lane-Garrett Road Connector – Supp. #1	$10,448
		H.009497.6	LA 106: Bayou Bouef – Construction Services	$18,549
		H.011805.5	LA 10: Company Canal – Construction Services	$27,715
		H.010000.6-2	US 171 Over Calcasieu River – Construction Services	$48,104
		H.011485.6	LA 336 – Bayou Teche Bridge @ Breaux Bridge – Construction Services	$93,851
		H.012650.6	Bridge Repair District 62 – Construction Services	$25,337
		H.012451.6	Dist. 04 Bridge Repairs – Construction Services	$20,456
		H.010006.5	LA 58 Petit Caillou Bridge Rehabilitation	$1,481
		H.002868.5	Ambassador/BNSF Frontage Road Bridges	$4,547
		H.003370	I-220/I-20 Interchange IMP & BAFB Access	$191,473
		H.004791	LA 23: Belle Chasse Bridge and Tunnel (HBI)	$1,571,297
		H.001352.5	Comite Diversion Bridge at LA 67 – Construction Services	

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Huval & Associates, Inc.	Bridge	H.002273.5	Comite Diversion Bridge at LA 19 & LA 19 Railroad – Construction Services	$104,625
		H.004100	I-10 CMAR – Segment 1 Design	$3,745,531
		H.014560.5	LA 94: Vermillion River Bridge Replacement	$108,643
		H.014747	Southern University Ravine Project	$288,069
		H.014052-2	LA 151: 1-20 Overpass Deck Replacement	$35,824
G.E.C., Inc.	Planning	4400016958	Road Transfer Program Management, Statewide (Note: Unlikely to bill this entire amount)	$1,688,247
		4400006551, 4400006552 and 4400006553	Retainer Contracts for Comprehensive Strategic Advisory Related to Louisiana Transportation Authority (LTA) Participation in Public-Private Partnership (PPP) (Sub to HNTB) (No Task Orders Issued)	N/A
	Road Bridge Environmental ITS Other Geotechnical	H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec) Geometrics Bridge Study Environmental ITS Program Management ($107,009), Electrical ($301,419) Geotechnical (Task Closed)	 $70,810 $71,333 $19,863 $19,447 $408,428 $51,213
	Bridge ITS Other	H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval) Bridge ITS Project Management ($435,309), Retaining Walls ($211,202), Sound Walls ($128,334) & Electrical ($1,409,387)	 $205,112 $168,789 $2,184,232
	Road Bridge ITS Other	H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros) Road Bridge ITS Project Management ($100,002), Sound Walls ($44,640) $ Electrical ($16,335)	 $412,410 $174,700 $28,665 $160,977
	Bridge	H.008145.5	Leeville to Golden Meadow, Route LA 1 Relocated, Const. Engineering Services (Sub to HNTB)	$233,102

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
G.E.C., Inc.	Bridge	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
	Bridge Other	H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA Bridge Electrical	 $148,795 $55,474
	ITS	4400009327 TO# H.014512 TO#H.012381.5-1	Retainer for Intelligent Transportation Systems Monroe Regional ITS Architecture Update (Note: Contract Expired. Remaining amounts will not be billed.) Fiber Optic Mapping and Management (Note: Contract Expired. Remaining amounts will not be billed.)	 $44,245 $38,242
	Other (Electrical)	4400011354	IDIQ Contract for Electrical Statewide	
		TO# H.013442.6	I-10: Crowder Boulevard Interstate Lighting	$47,379
		TO# H.013617.5	I-610EE Interchange Lighting	$38,918
		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
		H.004774.5 & H.007300.6	Kansas Lane-Garrett Road Connector and I-20 Improvements, Ouachita Parish (Sub to Lazenby & Associates, Inc.)	$2,100
	CE&I / OV	440013710	Retainer Contract for CE&I, Statewide with the Majority of Work in District 03	
		TO# H.003014.6	I-10 Widening and Reconstruction (LA 37 to ATCR BR.) St. Martin and Lafayette Parishes	$40,623
		TO# H.010601.6	I-10 Widening and Reconstruction (LA 328 - LA 347)	$305,776
		4400023074 TO# H.010724.6	IDIQ for CE&I Services and Staff Augmentation, District 61 Pecan Island Road Over the Chenal, Pointe Coupee Parish	 $155,876
		S.P. # H.011670.6	I-10/Loyola Interchange Improvements, Jefferson Parish	0

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
G.E.C., Inc.	CE&I / OV	4400019950 TO# H.002735.6 TO# H.003003.6 TO# H.002151.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 Bayou Vermillion Bridge I-10: I-49 - LA 328 Bayou Parc Perdue and Creek Bridges	 $91,813 $0 $146,782
		440005410 TO# H.009479.6	Retainer Contract for CE&I w/Painting Inspection & Environmental Monitoring, Statewide (Sub to GPI) W. Larose Vertical Lift Bridge Rehab., Route LA 1	 $0
		440014315 TO# H.003370.6 TO# H.010000.6	Retainer Contract for Painting Inspection & Environmental Monitoring with CE&I, Statewide (Sub to GPI) 1-220/1-20 Interchange IMP & BAFB Access US 1 71 : Calcasieu River Bridge Repairs	 $102,598 $195,107
		4400017329	Retainer Contracts for Innovative Procurement and Alternative Delivery Support Services (Sub to HNTB Corporation) (No Task Orders Issued)	N/A
Neel-Schaffer, Inc.	Planning	736-99-1548	Travel Demand Model Support Services Statewide (PRIME)	$80,081
		H.972374.1	Local Public Agency Documented Planning Process, Statewide	$91,931
	Environmental	H.000284.2	US 90 Pearl River Bridges, Route US 90, Saint Tammany Parish (PRIME)	$77,149
	Traffic & Road	H.011235	I-49 South at Verot School Road, Lafayette Parish, (SUB)	$16,114
	Traffic/Safety	H.014044.1	US 80: Intersection @ Bellevue Road, Route US 80	$10,288
		H.014579.5	FYA Signal Improvements (LCG)	$730,822
	ITS	H.004780.5 EWL No. 6	Kansas Lane Connector	$28,218
		H.013256.5	ITS: I-10 ITS Scott to Lake Charles	$16,710
		H.014513.1	ITS: Lafayette ITS Architecture Update	$31,941
		H.013256.6	ITS: I-10 ITS Scott to Lake Charles Technical Support Services During Construction	$23,867
		H.012384.5	ITS Fiber Management System Data Collection	$105,157
		H.011504.5	Alexandria ITS Phase 2	$153,197
	Traffic	SPN 4400010428 S.A. #2	Kansas Lane - Garrett Road Connector and I-20 Improvements (SUB)	$2,655
		H.013284	MRB South GBR: LA 1 to LA 30 Connector, Ascension, EBR, Iberville and WBR	$53,368

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Neel-Schaffer, Inc.	Traffic	H.013766.5	Local Road Signs & Striping (Caddo) (SUB)	$1,109
	Road	H.100108.1	Safety Projects: Independence SRTS - Phase II	$3,294
		H.013713.1	Safety Projects: LA 60 Bogalusa H.S. Ped Improvements	$3,717
		H.013014.5	Local Roads Signing (Vermilion)	$5,565
		H.009290.5	LSU Lab School SRTS Project	$61,842
		H.010616	I-20: LA 544 Overpass Replacement	$340,510
	Safety	H.014684.1	D61 Intersections: Safety Study District 61	$411
		H.014959.1	US 167: I-10 to Willow St. RSA	$54,977
	Planning/ Traffic/ Safety	H.014745.1	LA 383 Corridor Study	$236,487
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	4,959
		H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	52,436
		H.005168.2	New Orleans Rail Gateway Avondale EA	209,504
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	21,999
		H.012030.5	KCS RR Overpasses HBI	28,026
	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	58,309
Arcadis, U.S., Inc.	Environmental	H.002397.2	LA 16 (Pete's Hwy) Interstate 12 Interchange Route	$20,109
		H.011328.2	I-49 South (Ricohoc to Berwick)	$828,788
		H.009932	US 80 Widening: Vancil Road to Well Road Environmental Assessment	$5,343
		H.012891	LA 300 at Bayou LaLoutre	$7,959
		H.014215	LA 20 at 40 Arpent Canal and Drainage Canals	$31,698
		H.014213	LA 700 at Indian Bayou and Bayou Grand Marais	$15,071
		H.014279	LA 35: Drain Canal Near Lawtell	$27,893
		H.014278	LA 85: Patout and Drain Canal Bridges	$33,728
		H.014276	LA 975: Creek Bridges	$8,763
		H.014216	LA 682 at Norris Canal and Unnamed Tributaries	$41,250
		H.014241	LA 10 at Mill Creek	$19,609
		H.014251	LA 422: Bridge Over Unnamed Stream	$26,672
		H.012565	LA 963 at Redwood Creek and Little Redwood Creek	$8,212
		H.014257	LA 68 at Karrs Creek	$27,629
		H.014253	LA 421 at Thom Creek	$6,432

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Arcadis, U.S., Inc.	Environmental	H.014256	LA 952 at McKowen Creek and Beaver Creek	$32,217
		H.014254	LA 955 at Knighton Bayou, Trib. Olive Branch, White Branch, and Chapman Branch	$21,438
		H.012061	LA 1 at Lateral W15#7A and Bayou Moreau	$10,847
		H.014252	LA 1054 at Tyner Creek	$6,932
	Traffic	H.011328.2	I-49 South (Ricohoc to Berwick)	$176,056
		H.003370	I-220/I-20 Interchange IMP & BAFP Access Design Build	$15,000
		H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$597,523
		H.005121	LA 1/LA 415 Connector	$105,842
		H.972419.1	SHSP Update and Regional SHSP Marketing/Advertising Support	$12,717
		H.012018.6	Adaptive Traffic Signal Design and Implementation	$12,608
		H.014305.1	US 61: Cardinal Drive to Bert Street	$24,419
		H.013322.1	LA 3040 Feasibility Study	$38,844
		H.013797	LA 30: EBR PL – I-10	$493,720
	Road	H.011328.2	I-49 South (Ricohoc to Berwick)	$353,273
		H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	$339,654
	ITS	H.013868.5	ITS Program Management and Operations (2022)	$593,753
		H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2022)	$600,711
		H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I) (2022)	$147,799
			PO No. 2000588785 Scott Tower Cable and Grounding Repair, PO No. 2000634027 I-20 @ I-220 CCTV Repair For The Site in Shreveport, LA, PO No. 2000644636 I-10 @ LA 22 DMS CCTV Install	$14,700
		H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$231,299
	CE&I / OV	H.011220.6-1	I-10 CBD2 Carrollton-Lafitte Ave and Supplement No. 1	$80,338
		H.012876.6	US 90Z (I-10 Magnolia Street) Supplement No. 1	$26,829
		H.013710.6	I-10: US 61 to Laplace ITS Deployment	$533,794
	Bridge	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$1,098,670

20. Certifications/Licenses:

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

*See Attached

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Vectura Consulting Services, LLC

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

NC488490, NC541330, NC541340

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

Certificate Eligibility: June 2022 to June 2023

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Certificate of Completion

presented to

James Ellingburg

for completing the

Traffic Engineering Analysis Process & Report Class
Module 1, 2 & 3

Date: August 11 – 12, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ryan Spillers

for completing the

Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3

Date: August 11 – 12, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ellen B. Howard

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ellen Howard

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ellen Howard

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Duhe

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Duhe

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Duhe

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Nick Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Nick Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Nick Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kirk Gallien

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

Kirk Gallien

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 10, 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

Kirk Gallien

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Santosh Andem

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Santosh Andem

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: August 6, 2018

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Santosh Andem

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 18, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Seth Popay

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: March 10, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Seth Popay

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: March 10, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Seth Popay

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: March 11, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Vijay Kunada

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

Vijay Kunada

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 10, 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

Vijay Kunada

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 17, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development Hours (PDHs) Awarded: 4

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor

Authorized Instructor

Authorized instructor

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development Hours (PDHs) Awarded: 3

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

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development Hours (PDHs) Awarded: 3

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

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

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

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: November 5, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: November 26, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: December 3, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

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

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: August 6, 2018

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

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

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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.

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**
Huval & Associates, Inc.	922 West Pont Des Mouton Rd. Lafayette, LA 70507	Justin Peltier, Structural Design Engineer, jpeltier@hucalassoc.com	(337) 234-3798
G.E.C., Inc.	8282 Goodwood Blvd. Baton Rouge, LA 70806	Cary Bourgeois, P.E. cbourgeois@gecinc.com	(225) 612-4121
Neel-Schaffer, Inc.	10000 Perkins Road, Suite G360 Baton Rouge, LA 70810	Nick Ferlito, P.E., P.T.O.E. Nick.ferlito@neel-schaffer.com	(225) 614-2813
Vectura Consulting Services, LLC	8000 Innovation Park Dr. Baton Rouge, LA 70820	Brin Ferlito, P.E., P.T.O.E. bferlito@vecturacs.com	(225) 223-6685
Arcadis, U.S., Inc	3850 N Causeway Blvd, Ste 990 Metairie, LA 70002	Jason Morrell, P.W.S. Jason.Morrell@arcadis.com	(404) 783-4005 or (504) 648-3617

(Add rows as needed)

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.