DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.
ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.
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	**IDIQ CONTRACT FOR ROADWAY DESIGN SAFETY STATEWIDE**
2. Contract number(s) as shown in the advertisement	**4400026026**
3. State Project Number(s), if shown in the advertisement	**N/A**
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	**SIGMA CONSULTING GROUP SOUTHEAST, INC.** **(dba Sigma Consulting Group Inc.)**
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	**EF.0001410** **VF.0000302** SIGMA CONSULTING GROUP, INC. A WAGGONER COMPANY
6. Prime consultant mailing address	**10305 Airline Highway, Baton Rouge, LA 70816**
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	**10305 Airline Highway, Baton Rouge, LA 70816**
8. Name, title, phone number, and email address of prime consultant's contract point of contact	**Robert Lear, Jr., PE, LSI – Vice-President** **225-298-0800, rlear@sigmacg.com**

9. Name, title, phone number, and email address of the official with signing authority for this proposal	**Miles B. Williams, PE – President** **225-298-0800, mwilliams@sigmacg.com**
10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 Signature above shall be the same person listed in Section 9: **March 16, 2023** Date:
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): — Firm(s)' %: **Civil Design & Construction, Inc.** — **6%**

12. **Past Performance Evaluation Discipline Table**:

Past Performance Evaluation Discipline(s)	% of Overall Contract	**Sigma Consulting Group, Inc.**	Arcadis	CDC (DBE)	Waggoner		Each Discipline must total to 100%
Road	87%	**90%**	9%		1%		100%
Traffic	7%		100%				100%
Survey	6%			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%**	**78%**	15%	6%	1%	0%	100%

13. **Firm Size**

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
Sigma Consulting Group, Inc.	Principal	1	1
	Supervisor - Eng.	2	4
	Engineer	2	5
	Engineer Intern	1	5
	CADD Operator	0	3
	CADD Technician	0	3
	Surveyor	0	1
	Instrument Man	0	1
	Rodman	0	2
	Sr. Technician	0	1
	Clerical	1	4

Sigma is "right-sized" for this project – small enough to be focused and efficient in our process; large enough to have the experience and resources to get the project done in a timely manner.

All Sigma Personnel Committed To This Project Are Also Assigned To The Current IDIQ Roadway Contract

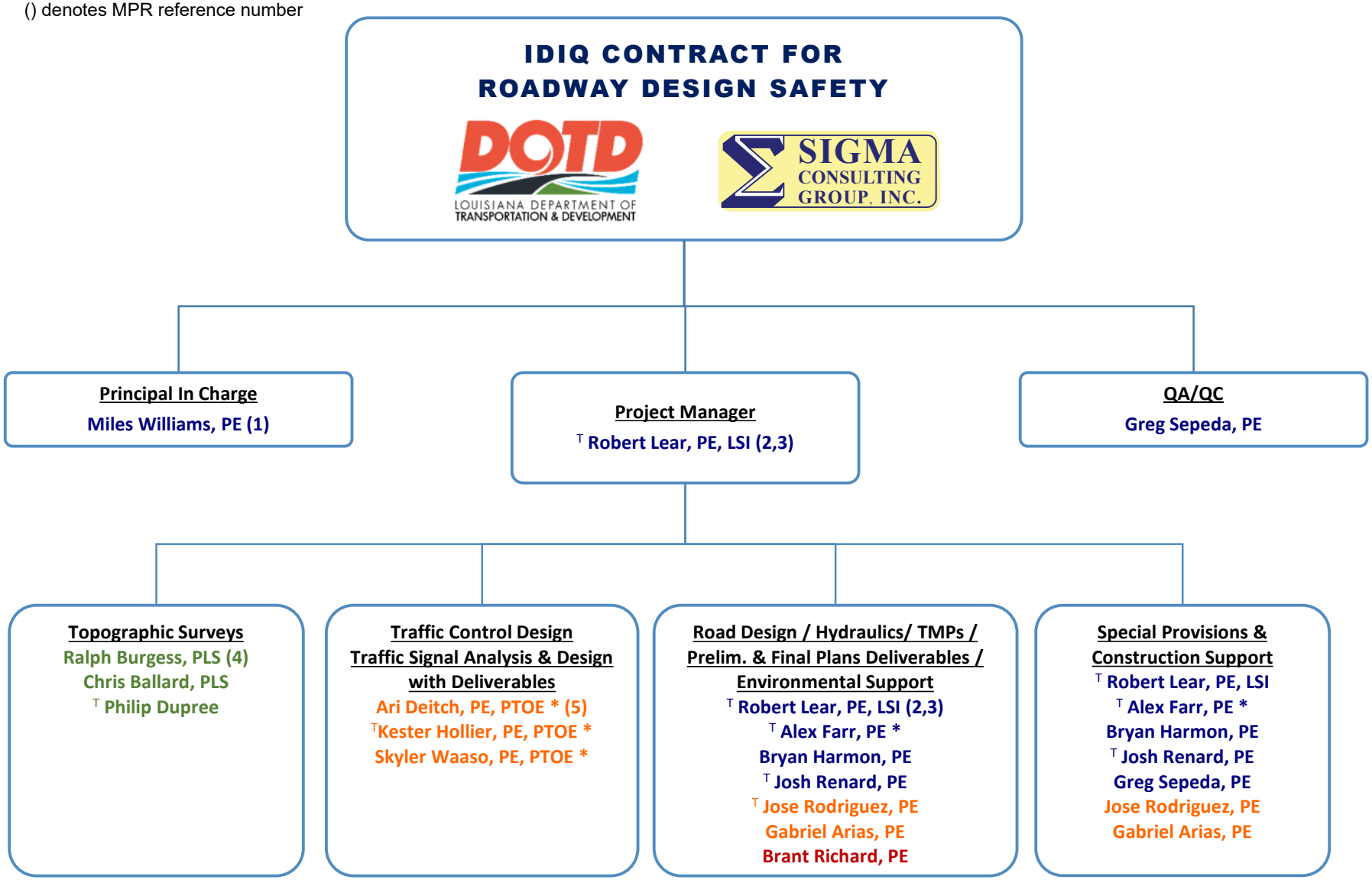
13. **Firm Size** (cont.)

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
C&C INCORPORATED	Supervisor Engineer	1	1
	Surveyor	1	3
	Party Chief	3	5
	Instrument Man	2	3
	Rodman	1	2
	CADD Operator	1	1
	Senior Technician	2	5
	Supervisor - Other (SUE)	1	1
ARCADIS	Principal	1	4
	Supervisor Engineer	4	8
	Engineer	4	8
	Environmental Manager	1	1
	Environmental Professional	1	4
WAGGONER	Supervisor Engineer	1	1
	Engineer	0	0

14. Organizational Chart:

Sigma Consulting Group, Inc.
Arcadis, Inc.
CD&C, Inc.
Waggoner

Legend
[T] Work Zone Training / TCS
* TEPR Training
() denotes MPR reference number



15. **Minimum Personnel Requirements**:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of License and discipline meeting MPR/ certification & Number	State of license	License / Certification Expiration Date
1	**Miles Williams, PE** 	**Sigma Consulting Group, Inc.**	**PE # 23094 - Civil**	**LA**	**Exp. 3/31/2024**
2 3	**Robert Lear, PE, LSI** **(20+ yrs experience in Road Design)** 	**Sigma Consulting Group, Inc.**	**PE # 29394 - Civil**	**LA**	**Exp. 3/31/2025**
4	**Ralph Burgess, PLS** **(20+ yrs experience in topo surveys)** 	**Civil Design & Construction, Inc.**	**PLS # 5040**	**LA**	**Exp. 9/30/2024**
5	**Ari Deitch, PE PTOE, PTP, RSP** **(10 yrs experience with signal warrants, signal timing and traffic signal design)** 	**Arcadis U.S., Inc.**	**PE # 41842 - Civil** **PTOE # 4346**	**LA**	**Exp. 3/31/2024** **Exp. 11/2023**

16. **Staff Experience:**

See Resume Sheets on subsequent pages.

Name	Project Responsibilities	Firm
Robert Lear, Jr., PE, LSI	Contract Manager / Road Design	SIGMA CONSULTING GROUP, INC. A WAGGONER COMPANY
Bryan Harmon, PE	Road Design / Drainage Design	
Greg Sepeda, PE	QC/QA Manager / Bridge Design	
Alex Farr, PE	Road Design / Maintenance of Traffic	
Joshua Renard, PE	Road Design / Utility Coordination	
Miles B. Williams, PE	Principal-in-Charge	
Brant Richard, PE	Road Design / QC	WAGGONER
Ari Deitch, PE, PTOE	Traffic Design	ARCADIS
Kester, Hollier, PE, PTOE	Traffic Design	
Skyler Waaso, PE, PTOE	Traffic Design	
Jose Rodriguez, PE	Road Design	
Gabriel Arias, PE	Road Design	
Karla E. Weston, PE	Survey Principal	C&C INCORPORATED
Ralph Burgess, PLS	QC/QA Manager / Survey	
Chris Ballard, PLS	Survey	
Philip Dupree	Survey	

Firm employed by: **SIGMA CONSULTING GROUP, INC.**				**Meets MPR 1, 2, & 3**
Name	**ROBERT LEAR, JR., PE, LSI**	Years of relevant experience with this employer	**24**	
Title	**Vice-President / Sr. Project Manager**	Years of relevant experience with other employer(s)	**3**	
Degree(s) / Years / Specialization		**BS / 1996 / Civil Engineering**		
Active registration number / state / expiration date		**PE.0029394 / LA / 3-31-2025 & LSI.0000508 / LA / 9-30-2023**		
Year registered	**2001 / 2005**	Discipline	**Civil / Land Surveyor Intern**	
Contract role(s) / brief description of responsibilities		**Project Manager / Road Design (MPR 2 & 3) 20+ yrs experience in responsible charge of Road Design projects for DOTD**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2005 2021	**NEPA and Transportation Decision Making Seminar** **ATSSA Traffic Control Supervisor Certification #337850 (TCT/TCS)**
10/2020 – Present	**I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)** Mr. Lear is a road design engineer for the replacement of I-10, interchange improvements, and surface street improvements through Baton Rouge. His responsibilities include road and drainage design, complex interchange geometric design, maintenance of traffic / sequencing plans, road plan preparation, coordinating with the CMAR contractor, design and constructability reviews, proposed right of way and control-of-access limit determination and utility coordination.
01/14 – 07/16	**LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163)** Mr. Lear served as the project manager and road design engineer for a 4-legged single lane roundabout in Lafayette Parish. He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey and SUE efforts. Utility locates included QL-D and QL-C locates. Mr. Lear coordinated with District 03 for utility relocation requirements and needs.
01/14 - 12/16	**LA 347: Roundabout @ Melancon Rd, St. Martin Parish, LA (H.009456)** Mr. Lear was the project manager, engineer of record and survey task manager for the design of a new 4-legged single lane roundabout. He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also was responsible for establishing design required right of way lines, utility coordination and R/W map preparation. All deliverables were prepared using InRoads Survey, CadConform and Microstation software. Utility locates included QL-D and QL-C locates.
05/21 - Present	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** Mr. Lear is the project manager and design engineer of record for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows

Robert Lear, Jr. (continued)

Firm employed by: **SIGMA CONSULTING GROUP, INC.**			**Meets MPR 1, 2, & 3**
Name	**ROBERT LEAR, JR., PE, LSI**	Years of relevant experience with this employer	**24**
Title	**Vice-President / Sr. Project Manager**	Years of relevant experience with other employer(s)	**3**

	near the interchange. Mr. Lear is responsible for coordinating the project with the District 03 administrator, DTOE, area engineer, and utility coordinator, design of the drainage systems, maintenance of traffic plans, and construction plans.
04/19 – Present	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA** The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new 4-lane rural arterial roadway. Mr. Lear is the Roadway Design Engineer for this LaDOTD Design-Build Project. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, drainage design including cross drains, storm drains, side drains, roadside ditches, existing and design drainage maps, clearing and grubbing plans, and construction support. Mr. Lear also was responsible for QA/QC reviews and/or independent reviews of the Stormwater Pollution Prevention Plan, Interchange Modification Report re-evaluation, traffic control plans, signing and striping plans, and transportation management plan. He also participated in partnering and coordination with the contractor throughout the RFQ, RFP, design and construction phases of the project. As key personnel for the DB process, he participated in all of the required pre-construction project meetings as well as design-build team constructability reviews.
2013 - Present	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.010601)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** Mr. Lear was the project manager and lead roadway engineer for replacing and upgrading 16.6 miles of I-10 and intersection safety improvements from Lafayette to near Henderson, LA, including and a new overpass on Melvin Dupuis Rd over I-10. He was responsible for all roadway design components of the project including typical sections, plan profiles, geometric details, sequencing, level 4 TMP, and cross sections. The project scope also included two roundabouts at the ramp termini points and intersection improvements to LA352/LA347 based on traffic data and access management. Mr. Lear was the road design engineer for these one-lane roundabouts and intersection improvements and attended public meetings for DOTD environmental clearance. Mr. Lear also coordinated the roadway lighting and utility conflicts with subconsultants, and bridge design with DOTD Bridge section, and assembled the multi-discipline construction plan set. **He is currently providing construction support for the project which includes partnering, value engineering proposal reviews and plan changes.**
2017 - 2018	**LA 675 & LA 87 Improvements - SUE, Iberia Parish, LA (H.011781)** Mr. Lear was the project manager and engineer of record for subsurface utility engineering on S. Hopkins Rd in New Iberia, LA. The project included Quality Level A, B, C and D locates in accordance with CI/ASCE Standard 38-02 for underground utilities owned by 9 companies. The 0.8 mile urban roadway included constricted right of way with multiple utilities in the roadway and under sidewalks. Quality Level B locates were conducted using multiple geophysical scanning methods, and 40 QL-A test holes were performed by Sigma. Final SUE plans were prepared in accordance with CI/ASCE Standard 38-02 and DOTD standards.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**				**Meets MPR 1, 2, & 3**
Name	**BRYAN K. HARMON, PE**		Years of relevant experience with this employer	**7**
Title	**Vice-President / Special Projects Engineer**		Years of relevant experience with other employer(s)	**33**
Degree(s) / Years / Specialization			**BS / 1981 / Agricultural Engineering** **BS / 1982 / Civil Engineering**	
Active registration number / state / expiration date			**22595 / LA / 3-31-2025**	
Year registered	**1987/1994**	Discipline	**Civil / Environmental**	
Contract role(s) / brief description of responsibilities			**Hydraulics / Road Design**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2008 2010	**NEPA and Transportation Decision Making Seminar** **Principles of Writing Hwy Construction Specifications**
10/20 - Present	**I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)** Mr. Harmon is the lead hydraulics design engineer for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. He is responsible for developing the existing and design drainage maps, hydraulic calculations, and drainage outfall assessments. Drainage is being designed for both final conditions and interim construction phases consistent with limits defined for each GMP. In addition, he is coordinating with the CMAR contractor, DOTD, and East Baton Rouge DTD to orchestrate future improvements to Dawson's creek at the Acadian Thruway underpass at KCS RR
2016 – 2020	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Harmon served as the project Design & Construction Liaison and lead drainage engineer for the project. He was responsible for coordinating design and construction efforts for the D-B team to ensure a cost effective and efficient delivery process. His drainage design responsibilities included open ditch and subsurface drainage systems, box culvert and cross drain extension design, and flood elevation assessments to ensure that project features did not negatively affect base flood elevations along the 6.7 mile project corridor.
10/18 – 03/20	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA** Mr. Harmon served as a drainage design engineer and was responsible for the evaluation and design of both the existing and proposed drainage systems for this new 4-lane rural arterial and roadway and urban freeway interchange. In addition to the standard DOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of thier 2-D Unsteadey Flow Hec Ras Model for this region. Due to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.

Bryan Harmon (continued)

Firm employed by: **SIGMA CONSULTING GROUP, INC.**			**Meets MPR 1, 2, & 3**
Name	**BRYAN K. HARMON, PE**	Years of relevant experience with this employer	**7**
Title	**Vice-President / Special Projects Engineer**	Years of relevant experience with other employer(s)	**33**

04/18 – Present	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791)** Sigma is providing the drainage design for this major highway improvement that is being designed and constructed under this alternative delivery method. Mr. Harmon is serving as the lead drainage engineer and is responsible for the coordination and proper consideration of the impacts that the large multi-jurisdictional pumped drainage outfall systems have on the project drainage system performance. Project drainage considerations include bridge deck scupper design conforming to FHWA HEC-21 requirements, and standard storm drainage piping and inlet design for associated local roadway improvements. The drainage system design must account for the final full build conditions but must also function during the various construction sequences with the addition of temporary systems.
05/21 - Present	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** Mr. Harmon is the lead hydraulic engineer for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange. Mr. Harmon is responsible for performing HEC-RAS modeling and HYDRO-WIN calculations on the main outfall channel, developing drainage alternatives and associated costs, and QA/QC on the construction plans.
01/22 – Present	**Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)** Mr. Harmon is the lead hydraulics engineer for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. His responsibilities include development of the existing and design drainage maps, cross drain design, storm drain system design, open ditch design, and evaluation of impacts for open ditch vs storm drain system alternatives along the project corridor.
	Prior to joining Sigma, Mr. Harmon spent the previous year serving as the Interim Director of the Department of Public Works for the City of Baton Rouge and Parish of East Baton. Prior to his tenure as the Director, he served 9.5 years as the DPW Deputy Director/Chief Engineer and 15 years as the Assistant Chief and Drainage Engineer. As Deputy Director/Chief Engineer, one of his primary responsibilities included the over sight of all engineering functions and project construction for the Department. Specific duties included the administration of flood plain and storm water regulations, right of way acquisitions, standard plans and specifications, engineering studies and plan development, cost estimates, funding pursuits, bid phase services, and construction administration for several types of municipal infrastructure projects throughout East Baton Rouge Parish. As an owner's representative for EBR parish, he coordinated with contractors for construction projects, participated in project partnering, performed design and constructability reviews, evaluated value engineering proposals, and prepared independent cost estimates for project.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**				**Meets MPR 1, 2, & 3**
Name	**GREGORY P. SEPEDA, PE**		Years of relevant experience with this employer	**25**
Title	**Vice President / Chief Engineer**		Years of relevant experience with other employer(s)	**5**
Degree(s) / Years / Specialization			**BS / 1990 / Civil Engineering** **MS / 2002 / Civil Engineering - Structural**	
Active registration number / state / expiration date			**26669 / LA / 9-30-2024**	
Year registered	**1996**	Discipline	**Civil**	
Contract role(s) / brief description of responsibilities			**Project Manager / Road Design / QC**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2012 2016	**NEPA and Transportation Decision Making Seminar** **Maintenance and Rehabilitation of Historic Bridges Course**
2014 – Present	**Ambassador Caffery & US 90 I/C (Future I-49), Lafayette, LA (H.002868)** Mr. Sepeda is the lead bridge engineer for the final design and plan development of a new bridge structure over Ambassador Caffery Boulevard for future I-49. The proposed structure was designed according to the AASHTO L.R.F.D. design guide and utilized the newly developed "LG" prestressed concrete girders. Mr. Sepeda served in the checking and QC role on the project, while supervising the development of the construction plans and cost estimate. He will be performing construction support services and shop drawing reviews.
07/12 – 10/18	**I-10 Widening, LA30 - LA22, Ascension Parish, LA (H.009276)** Mr. Sepeda served as project manager and lead bridge engineer for the widening of a 5 mile segment of I-10. He was responsible for the overall project management and coordination with the subconsultant team, road bridge design, and plan production. Sigma is also responsible for the design of a concrete slab span bridge, and the deck design of four girder-supported bridge structures. Under a contract supplement, Mr. Sepeda lead the design for a replacement of the LA 941 structure over the mainline interstate. LA 941 is a rural 2-lane roadway.
08/12 – Present	**Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)** Mr. Sepeda is the project manager for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. The project began with an Environmental Assessment (E.A.) and NEPA environmental documentation. Mr. Sepeda worked with all technical team members and successfully obtained a FONSI. As the project continues into plan development, Mr. Sepeda is coordinating the topographic survey to identify major topography and existing utilities, as well as developing geometry consistent with MOVEBR and DOTD guidelines. With the route being a state highway, coordinating with LA DOTD is a necessity. Sigma is facilitating the development of a traffic study with a subconsultant, following criteria established by LA DOTD. Multiple roadway sections and intersection arrangements are being evaluated through a tiered approached.

Gregory Sepeda (continued)

Firm employed by: **SIGMA CONSULTING GROUP, INC.**			**Meets MPR 1, 2, & 3**
Name	**GREGORY P. SEPEDA, PE**	Years of relevant experience with this employer	**25**
Title	**Vice President / Chief Engineer**	Years of relevant experience with other employer(s)	**5**

12/14 – 04/19	**S. Acadian Thruway (Perkins Rd - LA 73), East Baton Rouge Parish, LA (H.011261)** Mr. Sepeda is the project manager for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Mr. Sepeda is responsible for all project management, coordinating the design effort and quality control.
10/16 – 06/20	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Sepeda served as the project Design Quality Manager (DQM) for all design efforts on the project. Mr. Sepeda developed a project specific Design Quality Plan as well as QA processes to ensure that the design activities comply with the Contract requirements. As a component of the QA process, he also performed design assessment reviews of every submittal to review for general compliance with the requirements of the Contract, taking into consideration the proposed method of construction, and covered areas such as: design criteria; codes and standards; constructability; and fatigue and durability performance. For critical structural members, Mr. Sepeda also performed an independent analytical design check using separate calculations to verify the structural adequacy and integrity of the members. This analytical check included the following: structural geometry & modeling; material and member properties; loads; and structural boundary conditions.
06/13 - Present	**I-10: East Jct. I-49 to Atchafalaya Floodway Bridge, Lafayette & St. Martin Parishes (H.003003/H.010601/H.003014)** Mr. Sepeda oversaw the development of all sequencing and the Level 4 Transportation Management Plan (TMP) for the I-10 widening project from I-49 to the Atchafalaya Floodway Bridge. This roadway improvement is split into three segments requiring three separate TMPs. The first 2 segments also required an Initial Financial Plan to be developed. Mr. Sepeda drafted this plan which included cost estimates, scheduling, and identifying risk.
04/12 – 12/12	**Jones Creek Road Improvements, East Baton Rouge Parish, LA (H.007137)** Mr. Sepeda was responsible for the quality control / quality assurance for the design of a 5-lane urban roadway from Tiger Bend Road to George O'Neal Road. With a special focus on the drainage, utility conflict points, and maintenance of traffic impacts, he helped produce a final deliverable with minimal disruptions to the local residents. He specially coordinated the design and placement of a large 36" sanitary sewer force main with the proposed roadway construction. Mr. Sepeda also prepared the safety performance computations per the Predictive Method of the Highway Safety Manual.
09/13 – 10/15	**US 171: J-Turns @ N. Perkins Ferry Road, Calcasieu Parishes (H.010197)** Mr. Sepeda was the project manager for the design of J-Turns and turn lanes at a 3-leg intersection north of Lake Charles, LA. He is responsible for the road design, drainage design, and plan production. All work for this project is being performed using CADConform and LA DOTD electronic plan delivery requirements.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**				**Meets MPR 3**
Name	**ALEX D. FARR, PE**	Years of relevant experience with this employer	**9**	
Title	**Project Engineer**	Years of relevant experience with other employer(s)	**2**	
Degree(s) / Years / Specialization		**BS / 2011 / Civil Engineering**		
Active registration number / state / expiration date		**40426 / LA / 9-30-2024**		
Year registered	**2016**	Discipline	**Civil**	
Contract role(s) / brief description of responsibilities		**Road Design / Maintenance of Traffic**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2019 2018	**Traffic Control Supervisor (TCS) course** **Traffic Engineering Analysis Process and Report Course (Modules 1, 2 & 3)**
2016 – Present	**I-10: LA 328 to LA 347, St. Martin Parish (H.010601)** Mr. Farr was responsible for producing the Transportation Management Plan (TMP) for the I-10 widening project from LA 328 to LA 347. The TMPs pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr was also responsible for the suggested sequence of construction, temporary signing, quantity computations and pay items using DOTD 2017 specifications, permanent signing and roadway plan preparation. **He is currently providing construction support for the project which includes partnering, contractor coordination and plan changes.**
2014 – Present	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** Mr. Farr was responsible for producing the Level 4 Transportation Management Plan (TMP) for the I-10 widening project from I-49 to the LA 328. The TMPs pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr was also responsible for the suggested sequence of construction design, temporary signing design, quantity/pay item computations, and roadway plans
01/14 – 08/16	**I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)** Mr. Farr was responsible for producing the Level 4 Transportation Management Plan (TMP) for the I-10 widening project from LA 347 to the Atchafalaya Floodway Bridge. The TMP pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr was also responsible for the suggested sequence of construction, temporary signing, quantity computations and pay items using DOTD 2016 specifications.
01/14 – 07/16	**LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163)** Mr. Farr was responsible for the permanent signing and striping design plans and quantity/pay item computations for this project. Mr. Farr also assisted in the design of the suggested sequence of construction.

Alex Farr (continued)

Firm employed by: **SIGMA CONSULTING GROUP, INC.**			**Meets MPR 3**
Name	**ALEX D. FARR, PE**	Years of relevant experience with this employer	**9**
Title	**Project Engineer**	Years of relevant experience with other employer(s)	**2**

01/14 – 12/16	**LA347: Roundabout @ Melancon Road, St. Martin Parish, LA (H.009456)** Mr. Farr was responsible for the permanent signing and striping design plans, suggested sequence of construction development, Level 2 TMP, and quantity/pay item computation for a single lane roundabout near Breaux Bridge, LA.
10/2020 – Present	**I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)** Mr. Farr was responsible for developing the proposed vertical profiles along the I-10 mainline corridor, service roads, surface streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting the profile to meet the minimum vertical clearance per LA DOTD minimum design guidelines. This was performed along this corridor by using as-builts pertaining to their respective locations. Mr. Farr was also responsible for calculating the roadway and bridge construction costs for the Project Opinion of Probable Costs for the I-10 Corridor Environmental Assessment.
02/17 - 06/20	**I-10: Highland Rd to LA73 Design-Build Project, East Baton Rouge/Ascension Parishes. H.009250** Mr. Farr was responsible for preparing the Transportation Management Plan (TMP) and Safety Analysis for this project. The safety analysis was prepared to determine what safety concerns related to the construction and maintenance of traffic phasing. Mr. Farr was also responsible for designing and preparing the suggested sequence of construction, guardrail design, and the quantity estimate for the above-mentioned project.
04/19 - Present	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA** Mr. Farr was responsible for performing the design of the interchange ramp profiles, super elevation calculations, and graphical grades. Mr. Farr was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimates.
2021 – Present	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338) (2021 – Present)** Mr. Farr is responsible for the plan development of this project, which is for 16 state projects including 29 bridge replacement sites throughout south Louisiana. This includes preparing the Project Design Report (PDR) as well as the horizontal and vertical geometry. As some bridge sites are allowed to be closed for construction while others must remain open, Mr. Farr is also responsible in designing a detour route or diversion road, which includes a suggested sequence of construction. Mr. Farr is also responsible for the guardrail design at each bridge site. Along with plan development, Mr. Farr will be assisting the Project Manager in subconsultant coordination as well as invoicing and progress reporting to the LADOTD Project Manager.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**				**Meets MPR 3**
Name	**JOSH K. RENARD, PE**		Years of relevant experience with this employer	**16**
Title	**Project Manager**		Years of relevant experience with other employer(s)	**0**
Degree(s) / Years / Specialization		**BS / 2006 / Civil Engineering**		
Active registration number / state / expiration date		**PE.0036015/ LA/ 3-31-2023**		
Year registered	**2010**	Discipline	**Civil**	
Contract role(s) / brief description of responsibilities		**Road Design / Utility Coordination**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2021	**Traffic Control Supervisor (TCS) course**
10/16 – 06/20	**I-10: Highland Rd to LA73 Design-Build Project, East Baton Rouge/Ascension Parishes. H.009250** Mr. Renard served as the utility coordinator for this interstate design build project. He communicated with and gathered information from utility owners to ensure that the road was designed with minimal utility conflicts. Mr. Renard coordinated efforts to have telecommunications, water, and gas lines marked in the field and then led efforts to have Level A test holes performed to ensure a successful no-conflict design.
08/19 – 10/19	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA** This project will extend I-220 south at the I-220/I20 interchange with new roadway and bridges connecting and creating access to the Barksdale Air Force Base. Mr. Renard was responsible for all Subsurface Utility Engineering for this project, including utility conflict matrix development, utility coordination, utility relocation, Level D through A locates and test holes.
04/18 – Present	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791)** Mr. Renard served as the drainage design Quality Control checker for this road design project. His efforts ensure that the project's drainage meets the requirements of the owner, parish and project specifications. This included technical checking for the existing and design drainage maps, HydroWIN calculation checks, drainage plan profile checking, and hydraulic computation book checking.
10/2020 – Present	**I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)** Mr. Renard is a roadway and utility engineer for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. He prepared a utility conflict matrix for the project and designed a utility duct bank to expedite utility relocations with minimal construction conflicts. The duct bank design was an independent GMP for CMAR delivery. He is also designing drainage and roadway plans for surface streets between Washington Street and Acadian Blvd.

Josh Renard (continued)

Firm employed by: **SIGMA CONSULTING GROUP, INC.**			**Meets MPR 3**
Name	**JOSH K. RENARD, PE**	Years of relevant experience with this employer	**16**
Title	**Project Manager**	Years of relevant experience with other employer(s)	**0**

08/19 – Present	**MOVEBR Infrastructure Enhancement and Traffic Mitigation Program** **East Baton Rouge Parish, LA - Lead Utility Coordinator, EBR Parish, LA (**08/19 - Present**)** Mr. Renard serves as the main point of contact for utilities on the MoveBR transportation, road, and traffic program. He is leading the effort to create the Utility Coordination Process and Design Guidelines for Designers - Utility Section. He will serve in this role during both the design and construction phase for the program. He will also utilize SUE where appropriate to gain pertinent location information for design efforts. He will also work to ensure that relocations are successful and will resolve utility conflicts encountered during construction.
2017 - 2018	**LA 675 & LA 87 Improvements - SUE, Iberia Parish, LA (H.011781)** Mr. Renard served as the office SUE manager for this DOTD project, which included Level A through D underground utility location work as well as video inspection of sewer mainlines and laterals along a one mile section of Hopkins Street in New Iberia, LA. Under his guidance Sigma located utilities through Quality Level A-D. His responsibilities included coordination with utility companies and local government representatives to obtain as-built drawings, meeting with DOTD representatives, design engineers, surveyors and subcontractors to coordinate the location work, providing valuable utility location information to the design team.
2019 - 2020	**Jacock Road Bridge Replacement at Barrow Fork Creek, West Feliciana Parish** Mr. Renard served as the construction manager for this concrete slab span bridge replacement project. His responsibilities included reviewing shop drawings, RFI's, contractor's invoices, resolving construction related problems, and utility coordination. This bridge removal and installation project followed DOTD 2016 specifications.
01/14 – 07/16	**LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163)** Mr. Renard served as a project engineer for the design of a single lane roundabout in Lafayette Parish. He designed the typical sections and graphical grades for the approach legs, the splitter islands, and the transition to the existing roadways. He also prepared quantities for the project.
01/14 – 12/16	**LA347: Roundabout @ Melancon Road, St. Martin Parish, LA (H.009456)** Mr. Renard served as a project engineer for the design of a single lane roundabout in St. Martin Parish. He designed the typical sections and graphical grades for the approach legs, the splitter islands, and the transition to the existing roadways. He also prepared quantities for the project.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**				**Meets MPR 1, 2, & 3**
Name	**MILES B. WILLIAMS, PE**	Years of relevant experience with this employer	**33**	
Title	**President / Principal-in-Charge**	Years of relevant experience with other employer(s)	**8**	
Degree(s) / Years / Specialization		**BS / 1983 / Civil Engineering**		
Active registration number / state / expiration date		**23094 / LA / 3-31-2024**		
Year registered	**1988**	Discipline	**Civil**	
Contract role(s) / brief description of responsibilities		**Principal-in-Charge / design reviews (MPR 1)**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2004 1988 - Present	**NEPA and Transportation Decision Making Seminar** **34+ Years responsible charge for designing DOTD roadway projects**
2014-2015	**LA 342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163)** Mr. Williams was the principal-in-charge for the LA 42: Roundabout @ LA 724 Route LA 42. This project is a safety project issued as a task order under our Safety Retainer contract with LA DOTD. The project included full topographic surveying and road design for a new single lane roundabout in Lafayette, LA.
2012-Present	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** Mr. Williams is the project principal and serves as a roadway design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. Mr. Williams is responsible for the drainage design which includes 6 cross drains, open ditch and subsurface drainage systems. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.
10/20 – Present	**I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)** Mr. Williams is the Road Design Lead Professional for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include road and drainage design, complex interchange geometric design, maintenance of traffic / sequencing plans, coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination, proposed right of way and control-of-access limit determination, utility coordination, and public involvement.
2016-2020	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Williams served as the Project Design Manager for all design efforts for this urban freeway design-build project. He was responsible for leading and coordinating all disciplines: road design; bridge design; lighting; geotechnical investigation; and traffic control. He also is the responsible engineer for geometric design, roadway construction and traffic control plans. The project included coordinating with the D-B contractor and DOTD, partnering, design and constructability reviews, and cost estimating.

Miles Williams (continued)

Firm employed by: **SIGMA CONSULTING GROUP, INC.**			**Meets MPR 1, 2, & 3**
Name	**MILES B. WILLIAMS, PE**	Years of relevant experience with this employer	**33**
Title	**President / Principal-in-Charge**	Years of relevant experience with other employer(s)	**8**

04/18 – Present	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791)** Sigma is a design subconsultant providing drainage design for this alternative delivery project. Mr. Williams is serving as project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionaire and LADOTD. He is also assisting in the design of the drainage system for the roadways throughout the project including storm sewer design, drainage plans preparation and generation of quantities.
12/14 – 04/19	**S. Acadian Thruway (Perkins Rd - LA 73), East Baton Rouge Parish (H.011261)** Mr. Williams was the principal-in-charge for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Mr. Williams reviewed proposed safety and sidewalk improvements as they were implemented in the project.
03/13 – 10/20	**I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** Mr. Williams was the principal in charge for the roadway design for the three laning of the westbound lanes and rehabilitation of the two lanes eastbound for 2.7 miles of I-10 and intersection safety improvements near Henderson, LA. He supervised the plan preparation for all roadway design components of the project including typical sections, plan profiles, geometric details, sequencing, level 4 TMP, and cross sections. The project scope also included two roundabouts at the ramp termini points and intersection improvements to LA352/LA347. Sigma also provided construction support which included partnering, value engineering proposal reviews, and plan changes.
03/13 – 09/20	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** Mr. Williams was the principal in charge for the roadway design for the six laning of 6.7 miles of I-10 in Lafayette, LA. He supervised the preparation of the urban freeway design components of the project including typical sections, plan profiles, geometric details, sequencing and cross sections. The project included median barrier divided urban interstate with superelevation, bridge replacement and widening, and local road pier protection. Sigma also provided construction support which included partnering, value engineering proposal reviews, and plan changes.

Firm employed by: **WAGGONER ENGINEERING, INC.**					
Name	**BRANT B. RICHARD, PE**			Years of relevant experience with this employer	**1**
Title	**Vice President / Transportation**			Years of relevant experience with other employer(s)	**34**
Degree(s) / Years / Specialization			**BS / 1988 / Civil Engineering**		
Active registration number / state / expiration date			**28567 / LA / 9-30-2023**		
Year registered	**1999**	Discipline	**Civil**		
Contract role(s) / brief description of responsibilities			**Project Manager / QC**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
2006	**NEPA and Transportation Decision Making Seminar**
11/16 - 3/17	**LADOTD LA 675 & LA 87 Improvements, Iberia Parish, New Iberia, LA H.011781.5: Project Principal.** Responsible for the roadway rehabilitation design and plan preparation for approximately 2.3 miles of urban roadways under a task order from the LADOTD Pavement Preservation Retainer Contract. The project scope of work includes pavement widening, milling, asphaltic concrete (AC) overlay of composite pavement, AC overlay of AC pavement, AC patching, sawing and sealing of AC overlay lifts over composite pavement, roadway striping, ADA ramps, and the installation of access control safety improvements.
09/14 – 12/15	**LADOTD LA 64 & LA 1209 Overlay, East Baton Rouge Parish, Zachary, LA H.011703.5: Project Principal.** Responsible for the roadway rehabilitation design and plan preparation for approximately 6.7 miles of urban roadways under a task order from the LADOTD Pavement Preservation Retainer Contract. The scope of work includes milling, AC overlay of AC pavement, AC patching, Portland Cement Concrete Pavement (PCCP) patching, guardrail design and replacement, superelevation design, roadway striping, and ADA ramps.
06/08 – 9/09	**LADOTD Submerged Roads Program – Groups 6 and 11, New Orleans, LA 704-36- 0032 and 704-36-0042: Project Principal.** Responsible for the overall management of the team providing roadway rehabilitation design and plan preparation for 12.7 miles of urban roadway. Responsible for the verification of damage inspection reports and the preparation of the design quality control plans. Tasks included overlay design, roadway rehabilitation, milling, asphalt overlay, asphalt patching, concrete repairs, installation of Type A and Type B handicapped (ADA) ramps, sidewalk repairs, curb replacement, manhole and catch basin repairs, and minor utility repairs.
6/11 – 10/12	**LADOTD/Paths to Progress Program – Groups 21, 24, 29 and 33, New Orleans, LA H.009718 and H.009695: Project Principal.** Brant was responsible for the roadway rehabilitation design and plan preparation for 10.8 miles of urban roadways in Jefferson and Orleans Parishes. Scope included cold plane overlay, curb repairs, the installation of Type A and Type B handicapped (ADA) ramps, Asphaltic Concrete Pavement Widening, Portland Cement Concrete Pavement patching, Superpave Asphaltic Concrete Overlays, pavement base course patching, and roadway striping. Additional tasks included drainage design, bus pad repair, horticultural landscaping enhancements, and sidewalk repairs.

Brant Richard (continued)

Firm employed by: **WAGGONER ENGINEERING, INC.**			
Name	**BRANT B. RICHARD, PE**	Years of relevant experience with this employer	**1**
Title	**Vice President / Transportation**	Years of relevant experience with other employer(s)	**34**

01/15 – 05/18	**LADOTD / CMAR Alternative Delivery Support Services / LA: Project Principal.** Responsible for assisting the LADOTD Project Manager with the development, preparation, and presentation/coordination with Stakeholders for the implementation of Construction Manager at Risk (CMAR) policies, procedures, and guidelines for use by LA DOTD.
03/07 – 10/07	**The City of Baton Rouge, Parish of East Baton Rouge Highland Road Improvements, Baton Rouge, LA: Project Principal.** Responsible for the overall management of the team, providing design and oversight of the design team for the subsurface drainage to Highland Road. The roadway is an existing two-lane open ditch roadway being reconstructed into a four-lane divided roadway with subsurface drainage. Overall responsibilities included the design of subsurface drainage and preparing the existing drainage maps and proposed drainage maps in accordance with LADOTD standards. Tasks included laying out the roadway side inlets, calculating the subsurface culvert sizes, and incorporating the existing drainage systems into the roadway design. In addition, work included providing a scour analysis for the two bridges located on the proposed roadway along with a hydraulic analysis of the canal to determine the high-water elevation and flow through the bridge.
03/13 – 8/13	**LADOTD / LA 520, Jct. US 79 Widening / Claiborne Parish, LA H.010297.5: Project Principal.** Brant had overall responsibility for the roadway rehabilitation design and plan preparation for approximately 6 miles of rural roadways. The scope of work included roadway super elevation design and correction, bridge guardrail design, asphaltic concrete (ac) overlay, ac patching, milling and overlay of the bridges, and roadway striping.

Firm employed by	ARCADIS		Meets MPR No. 5
Name	Ari Deitch, PE, PTOE, PTP, RSP	Years of relevant experience with this employer	8
Title	Senior Traffic and Safety 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. 03/2024; PTOE #4346 / USA / Exp. 11/2023 PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 12/2024	
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Modeling and Studies, Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Deitch is a Senior Traffic Engineer and Project Manager specializing in traffic engineering studies and design, traffic safety, transportation management, and conceptual roadway design. Mr. Deitch has experience managing and working on a wide range of transportation projects for LADOTD, and other DOTs and municipalities across the country, pertaining to intersection and corridor studies, signal warrant analysis, access management, pedestrian and bicycle improvements, complete streets, transportation management plans, Stage 0 feasibility studies, NEPA studies, signal design, and signing and marking design. He has experience with traffic analysis software's and methods and is proficient in Highway Capacity Software, Synchro, Vistro, Vissim, Sidra and MicroStation software. **Mr. Deitch meets MPR #5 and has completed the LADOTD Traffic Engineering Process and Report Training.**
02/15 – 09/18	**Traffic Engineering IDIQ - US 71 Corridor - Phase II and III Traffic and Safety Corridor Study, LADOTD, Rapides Parish, LA.** *Project Manager.* Responsible for overseeing and managing project tasks including ***traffic data collection***, ***signal warrant analysis***, ***traffic analysis***, ***crash analysis***, ***alternative and countermeasure development***, ***predictive safety analysis***, and ***conceptual drawings***.
08/19 – 02/20	**Traffic Engineering IDIQ - US 61 Access Management and Corridor Study, LADOTD, East Baton Rouge Parish, LA.** *Senior Traffic Engineer.* Project purpose was to evaluate the effectiveness of proposed ***access management improvements*** along US 61 and identify feasible alternatives to maximize operational and safety benefits. Provided technical oversight for ***traffic analysis*** using Highway Capacity Software 7, ***signal warrant analysis***, and ***predictive safety analysis***. Assisted with the development of ***construction cost estimates*** and ***benefit-cost analysis***.
02/15-01/18	**Traffic Engineering IDIQ - LA 3105 (Green Acres to LA 72) Corridor Study, LADOTD, Bossier Parish, LA.** *Traffic Engineer.* Responsible for development/evaluation of existing and future year conditions using a ***calibrated microsimulation model (Vissim)***. Designed alternatives for phased implementation based on identified needs and input from local stakeholders including medians, restricted intersections, roundabouts, roadway widening, and ***signal timing enhancements***.
04/19 – 12/19	**Traffic Signal Design IDIQ - EBR Signal Upgrades and Design Plans, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer of Record.* Responsible for supervisory tasks and oversight of this project involving ***field signal inventory*** and the creation of updated ***signal design plans and quantities*** for 39 intersections in East Baton Rouge Parish.
04/16 – 09/18	**Safety Studies IDIQ - New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA.** *Project Manager.* Responsible for assessing existing and future safety deficiencies related to pedestrian and bicycle modes and ***selecting safety countermeasures for 20 high-risk locations***. Developed ***design drawings*** for proposed short-term and long-term improvement phases and conducted ***benefit-cost analysis*** to inform project prioritization. Conducted safety analysis using ***Highway Safety***

	Manual predictive methods. Organized and lead project stakeholder meetings to review alternatives, obtain feedback, and develop ***context sensitive solutions***. Completed ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists*** for all 20 intersections.
07/14 – Ongoing	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. *Traffic Engineer.* Responsible for ***traffic analysis*** of proposed alternatives using ***Vissim software***. Played a key role in the development of preliminary ***roadway design drawings***, incorporation LADOTD's ***Complete Streets Policy***, and implementing ***enhanced pedestrian safety measures*** such as high visibility crosswalks. Work involves completing an ***Environmental Assessment*** and providing traffic engineering services related to ***improving operations and safety*** along Range Avenue at the I-12 interchange. Conducted ***signal warrant analysis*** and developed ***optimized timing plans*** for proposed improvements.
02/15 – 11/17	Traffic Engineering IDIQ - Intersection Feasibility Study - Evangeline Thwy, Johnston St, & Louisiana Ave, LADOTD, Lafayette Parish, LA. *Traffic Engineer:* Responsible for ***review of existing crash data, traffic operations analysis, signal warrant 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.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer:* Responsible for wide range of ***traffic engineering*** tasks including development of permanent signing plans, ***traffic operations analysis***, ***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.
08/14 – 06/15	Safety Studies IDIQ - LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA. *Traffic Engineer*. Responsible for review of existing ***crash data*** and ***traffic operations analysis***, development of ***safety countermeasures***, conceptual drawings, ***signal warrant analysis and timing plans***. and ***Stage 0 documentation***. Purpose of the project was 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. Safety performance of alternatives was estimated using ***Highways Safety Manual predictive methods***.
04/16 – 10/19	Safety Studies IDIQ - 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 (Vissim)*** to evaluate the operational performance of HSR and HOV lane alternatives. Developed ***conceptual drawings*** and ***construction cost estimates*** to evaluate the ***feasibility*** of proposed alternatives.
02/17 – 02/18	Safety Studies IDIQ - I-49 Interchange Stage 0 Safety Feasibility Study, LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Responsible for ***data collection and analysis***, ***traffic and safety analysis***, and ***conceptual design drawings***. Purpose of the project was to identify ***feasible improvement alternatives*** to address historical safety issues along the I-49 corridor and at 3 interchanges. Participated with meetings with LADOTD HQ and District 03 team members to understand project needs and develop context sensitive solutions.

Firm employed by	ARCADIS		Meets MPR No. 5
Name	Kester Hollier, PE, PTOE	Years of relevant experience with this employer	2
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 traffic engineering studies and design including feasibility studies, intersection and corridor traffic studies, signal timing and design, roadway design, complete street improvement projects, traffic modeling and analysis, transportation safety, and construction management and inspection. Working on a wide variety of projects from the planning and conceptual phases to the design and construction phases, has given him the experience to help identify the needs and requirements for projects. This experience allows him to understand stakeholders ranging from local public agencies to state DOTs and helps provide expertise in achieving successful solutions for a variety of projects. **Mr. Hollier meets MPR #5 and has completed LADOTD Traffic Engineering Process and Report Training.**
11/20 – Ongoing	**I-10 CMAR – Traffic Engineering Services, 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***.
09/12 – 02/16	**Stage 0 Traffic Study and Stage 1 EA for Replacing Belle Chasse Tunnel and Bridge, LADOTD, Plaquemines Parish, LA.** *Lead 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 that will be 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 the roadway portion and costs for the ***Line and Grade Study*** along with the review of the construction sequencing and traffic maintenance of the constructability review.
11/17 – 07/20	**LA 466 (5th Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA.** *Project Manager / Senior 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 Louisiana Department of Transportation and Development's ***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 / Senior 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***.
05/14 – 08/20	Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA. *Senior Traffic 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.
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.***
10/18 – 01/19	LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. *Senior Traffic Engineer*. Responsible for the development of ***three future 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 ***road 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 – 07/15	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		Meets MPR No. 5
Name	Skyler Waaso, PE, PTOE	Years of relevant experience with this employer	2
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		BS / 2009 / Civil Engineering, University of Louisiana at Lafayette	
Active registration number / state / expiration date		PE.0039070 / LA / Exp. 09/2024; PTOE #4600 / USA / Exp. 03/2025	
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Engineering	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Waaso is a Senior Traffic Engineer with 13 years of experience in traffic modeling and studies. He is experienced with a range of traffic modeling software including Highway Capacity Software, Vissim (microsimulation), Synchro, Vistro, and Sidra. Mr. Waaso has experience managing and delivering a wide range of traffic projects for LADOTD, and other DOTs across the country, pertaining to intersection and corridor studies, access management studies, signal warrant studies, Stage 0 feasibility studies, NEPA studies, and safety studies. **Mr. Waaso meets MPR #5 and has completed the LADOTD Traffic Engineering Process and Report Training.**
02/17 – 09/18	**Traffic Engineering IDIQ - US 71 Corridor - Phase III Traffic and Safety Corridor Study, LADOTD, Rapides Parish, LA.** *Traffic Engineer.* Responsible for conducting traffic study tasks including ***traffic data collection***, ***signal warrant analysis***, ***traffic analysis***, ***crash analysis***, ***alternative and countermeasure development***, ***predictive safety analysis***, and ***conceptual drawings***.
02/17 – 02/18	**Traffic Engineering IDIQ – US 165 Traffic and Corridor Study, LADOTD, Ouachita Parish, LA.** *Traffic Engineer.* Responsible for traffic study tasks including ***traffic data collection*** and volume development, ***microsimulation modeling (Vissim)*** of existing and future conditions, developing ***capacity, access management and safety improvements***, and study documentation.
01/18 – 06/19	**Traffic Engineering IDIQ - I-20 Mesoscopic Model and TMP Using Dynameq, LADOTD, Bossier Parish, LA.** *Traffic Engineer.* Assisted with the development of ***mesoscopic traffic model using Dynameq*** to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project is anticipated to disrupt traffic in this critical portion of I-20. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, ***safety analysis***, ***operational analysis***, assistance with public outreach, development of a ***Level 4 TMP***, and development of work zone mitigation strategies.
06/15 – 02/17	**LA 59 Roundabout Corridor Traffic Study, LADOTD, St. Tammany Parish, LA.** *Traffic Engineer*. Performed ***traffic analysis*** for a segment along the LA 59 corridor in Covington, Louisiana. Main tasks included analyzing the corridor's existing conditions and ***developing alternatives that would improve the safety and capacity needs of the corridor***. Performed the traffic analysis in ***Synchro and Sidra*** as well as review crash reports and summary the crash history. Developed alternatives for the corridor and presented our concept to the DOTD district office and parish representatives. ***Completed a stamped and signed roundabout report.***
09/19 – Ongoing	**Innovate Mound Project, MDOT, Macomb County, MI.** *Senior Traffic Engineer.* Responsible for traffic engineering tasks including conducting a ***corridor traffic study*** of Mound Road from I-696 to M-59. ***Traffic modeling and analysis*** was performed to develop proposed improvements including ***capacity***, ***access management***, ***safety***, multi-modal and ***traffic signal improvements***. Developed traffic study documentation and provided ***transportation management*** during construction.

04/16 – 02/17	**I-110 to Terrace Avenue Interchange Modification Report, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer.* Prepared an ***Interchange Modification Report*** for FHWA on a future connection along 1-110 SB in downtown Baton Rouge. Main tasks included ***modeling of the existing, no build, and build alternative in Vissim*** and completing the written Interchange Modification Report that was submitted to FHWA.
02/17 – 02/18	Safety Studies IDIQ - I-49 Interchange Stage 0 Traffic and Safety Feasibility Study, LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Responsible for conducting traffic study and associated tasks including ***data collection and analysis***, ***traffic and safety analysis***, and ***conceptual design drawings***. Purpose of the project was to identify ***feasible improvement alternatives*** to address historical safety issues along the I-49 corridor and at 3 interchanges. Participated with meetings with LADOTD HQ and District 03 team members to understand project needs and develop ***context sensitive solutions***.
04/19 – 06/19	Traffic Signal Design IDIQ - US 90 Traffic Signal Timing Upgrades/LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Project tasks involved ***traffic data collection*** and analysis, ***traffic signal 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
02/17 – 06/19	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. *Traffic Engineer.* Responsible for ***traffic analysis*** of proposed alternatives using ***Vissim software***. Work involves completing an Environmental Assessment and providing traffic engineering services related to ***improving operations and safety*** along Range Avenue at the I-12 interchange. Conducted ***signal warrant analysis*** and developed ***optimized timing plans*** for proposed improvements. An ***Interchange Modification Report*** was prepared to document results of the traffic study and proposed improvements.
02/20 – Ongoing	U-23 Flex Route Traffic Study, MDOT, Livingston County, MI. Senior *Traffic Engineer.* Responsible for ***traffic modeling and alternative analysis*** for US-23 between M-36 and I-96. Work includes analysis of build alternatives, including developing and ***calibrating existing Vissim models*** to FHWA/MDOT standards and using the models to compare the ***projected future traffic operations of build alternatives***, including the extension of the existing US-23 Flex Route north of I-96. The US-23 Flex Route is a part-time dynamic hard shoulder use facility north of Ann Arbor. This study will evaluate if and how the Flex Route can be extended approximately five miles from 8 Mile Road to I-96. The study will include ***conducting traffic and geometric analyses***, road and bridge scoping, conducting environmental surveys with appropriate reports and preparing National Environmental Policy Act (NEPA) documentation. The study will include traffic, road, bridge, ITS components, ***safety*** and drainage. There is also a public engagement aspect to the project that will involve two stakeholder meetings and two public meetings.
07/19 – Ongoing	I-375 Corridor Improvements, MDOT, Detroit, MI. Senior *Traffic Engineer.* Responsible for the operational analysis of build alternatives and competing the ***Interchange Access Change Request (IACR) document***. The build alternatives ***modeled in Vissim*** converted an urban freeway into an urban boulevard. The build alternative also included a new ***traffic forecasting methodology***, which was developed by working with ***dynamic traffic assignment*** model to consider potential traffic impacts outside of the study area using ***Synchro and HCS***. The project will promote and support walkability, increase transit access, and improve non-motorized connections and urban-friendly linkages between businesses, cultural, entertainment destinations, and neighborhoods. Scop of services include environmental clearance, early preliminary engineering, project management, project controls, federal compliance, public involvement, procurement, oversight of design, and construction inspection services.

Firm employed by	ARCADIS		
Name	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	

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 the states of Louisiana, Texas, Georgia, and North Carolina. Worked in close relationship with the Louisiana Department of Transportation, City of New Orleans Department of Public Works, New Orleans Sewer and Water Board, Plaquemines Parish, Jefferson Parish, St. Bernard Parish, U.S. Army Corps of Engineers, New Orleans Regional Planning Commission, Marathon Petroleum Co., Yuhuang Chemicals, and others. Extensive experience in Inroads, Autodesk Civil 3d, Leap Bridge for Concrete Bridge Design, and Excel Spread Sheets. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010. Served as a judge in ACI's annual best concrete project competitions and remains active in this organization.
02/07 – 10/09	**LADOTD, John James Audubon Bridge Approach (Design-Build [DB]), 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 Federal Highway Administration (FHWA). Jose helped develop design guidelines and processes for the standardization of engineering work for the repair of damaged roadways by Hurricane Katrina in the City of New Orleans and other parishes. He was 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 new roadway 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 in 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. The estimated construction cost for this project was approximately fifty-nine million dollars. Responsible for the 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. Bentley InRoads was used for the development of the roadway plans for this project.
07/09 – 07/15	LADOTD, Peters Road Expansion, Phases I, II and 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 (IES), St. Tammany Parish (STP), 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, NC73 Highway 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 Highway, 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 for the Temporary Traffic Management Plan's preparation due to the high traffic volumes on NC 73, 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	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		PE. 0042599 / LA / Exp. 09/2022	
Year registered	2018	Discipline	Civil Engineering
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 horizontal and vertical (H&V) alignment, hydraulic design cross drain pipes (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	**Civil Design & Construction, Inc. (CD&C)**				
Name	Karla E. Weston, PE		Years of relevant experience with this employer	18	
Title	President		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			Bachelor of Science / 1999 / Civil Engineering		
Active registration number / state / expiration date			31010 / Louisiana / March 31, 2024		
Year registered	2004	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Mrs. Weston will oversee the firms' role as a sub-consultant and make sure the work is completed to LADOTD standards.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/16-09/19	**H.003047 Pecue Lane/I-10 Interchange, Baton Rouge, LA**: Mrs. Weston's served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design services of the West Bound on Ramp to I-10, the West Bound Off Ramp from I-10, the extension to Rieger Road and Pecue Lane Extension. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.
12/13 – 10/19	**H.02960 Gramercy Bridge, St. James Parish, LA**: Mrs. Weston served as Principal-in-Charge for the firm's role as a subconsultant for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project
02/14 - 02/15	**H.010620 I-49 Design Build, Lafayette, LA**: Mrs. Weston provided QA/QC review for the Roadway Design Plans on this Design-Build Project for part of the I-49 South Corridor.
05/13 – 05/14	**H.009288.5 LA 1 Railroad Bridge at DOW, WBR Parish, LA**: Mrs. Weston served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.
01/06 – 12/12	**EBR City/parish Project No. 06-CS-HC-0018, Fairchild-Badley Roadway, EBR Parish, LA**: Mrs. Weston served as Principal in Charge for this project that was approx. 1.25 miles in length along Fairchild-Badley Road and also included approximately 600 linear feet of Elm Grove Garden Dr. CD&C designed the upgrade to the existing narrow roadway to a typical section of 2-11' lands with a 2' barrier curb and gutter, and a 6' adjacent sidewalk. This included the design of a new sub-surface drainage system throughout the length of the project as well.
03/12 – 07/12	**H.009104.5 - Sunshine Bridge Phase 2:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the repairs and widening to the Sunshine Bridge.
05/11 – 04/12	**Red River – Jackson Street Bridge, Alexandria, LA:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the replacement of the Jackson Street Bridge over the Red River.

06/12 – 10/12	**H.009986 – Paths 2 Progress. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group 33** Ms. Weston served as the Principal-in-charge/Project Manager for this roadway rehabilitation project of roads in Jefferson Parish. This included field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
12/11 – 4/12	**H.005902.5 - Consulting Services for the Permanent Repair to Federal Aid Eligible Roads as a Result of Damage due to Hurricane Katrina in 2005. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group 29** Ms. Weston served as the Principal-in-charge/Project Manager for this project which included survey, field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina in the City of New Orleans, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
01/06 – 07/06	**Picardy Avenue Extension–City/Parish of East Baton Rouge:** Mrs. Weston served as Principal-in-Charge for this extension of Picardy Avenue, connecting Bluebonnet Blvd. with I-10 West. Duties included project layout and design as wells as subsurface drainage design for approximately ½ mile.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	Ralph Burgess, PLS		Years of relevant experience with this employer	12	
Title	Principal Land Surveyor		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization			BS / 2004 / Industrial Design & Supervision, Southeastern LA University		
Active registration number / state / expiration date			5040 / Louisiana – September 30, 2024		
Year registered	2010	Discipline	Land Surveyor		
Contract role(s) / brief description of responsibilities.			Mr. Burgess serves as the Survey Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of specified in the applicable MPR(s).
09/21 – 03/22	**H.014747 Southern University Ravine Protection, East Baton Rouge Parish**:Mr. Burgess was the Survey Manager for this project. CD&C as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University The topographic data for this project was collected both traditionally and utilizing 3D Scanning. Mr. Burgess worked with SUE sub-consultant, TBS, as well as CD&C crews to obtain and incorporate all utility data as well.
08/21 – On-Going	**H.011833.5 St. Mary Street Sidewalks; Scott, LA**:Mr. Burgess was the Survey Manager for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
7/17-12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial scanning crew along with office personnel, coordination. Special duties were merging of two state projects with project survey for final submittal to combine all projects together.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA**: Mr. Burgess served as Survey Manager for the project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.

07/20 – 04/21	**H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish**: Mr. Burgess was the Survey Manager for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. This included merging of data from a previous survey on one portion of the site and field verifications of that data. The topographic data for this project was collected traditionally.
01/18-01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA**: . Burgess was the surveying Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
7/17-12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial scanning crew along with office personnel, coordination. Special duties were merging of two state projects with project survey for final submittal to combine all projects together.
01/16-08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included complete topographic survey and drainage map for this project including all utility coordination. The survey began at the intersection of US 190 and Holiday Square Frontage Road. From this point, the survey proceeded in a northerly direction along US 190 for approximately 2.9 miles to a point that is 700 feet South of Intersection of US 190 and E. Boston St. in Covington, LA. This project also included work in the Abita River and utilized 3D Terrestrial Scanning for the main route.
10/15-12/18	**H.003184.5 I-10 Texas State Line –East of Coone Gully, Calcasieu Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, coordination of utility companies on the project, review and verification of drainage crossing I10, merging of existing topographic survey of bridges from LADOTD and final review of all survey data for submittals
08/16-12/17	**H.011235 I-49 South at Verot School Road, Lafayette, LA**: Mr. Burgess served as the Survey Manager for the project. Duties included meeting with LADOTD, and all consultants on the team, coordination of both traditional crews and 3D terrestrial scanning crew, coordination of survey crews with Cardno, Inc, utility locations on the project, met and review right of entry with landowners for project, review of drainage map, merging of existing topographic survey of the I-49 Connector project from LADOTD with current survey of project, review of apparent right of way mapping for prime consultant, and final review of all survey data.
07//14-10/15	**H.011088.5 I-110 North Street to Plank Road, EBR Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, review and verification of drainage map, merging and final review of all survey data for submittals. Other special duties were coordinating with LADOTD District 61 for a rolling lane closure for location of drainage located in the interior of the project along the existing crash wall. Also, coordination with LADOTD Records and EBR City Parish regarding the research of all drainage structures that enter and leave the project area.
04/17-07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA**: Mr. Burgess served as Survey Manager on this project which included a complete topographic survey, utility coordination, channel cross-sections and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	Chris Ballard, PLS		Years of relevant experience with this employer	8	
Title	Survey Project Manager		Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization			BS / 2004 / Biological Science / Southeastern LA University		
Active registration number / state / expiration date			5033 / Louisiana – September 30, 2022		
Year registered	2010	Discipline	Land Surveyor		
Contract role(s) / brief description of responsibilities.			Mr. Ballard serve as the Survey Project Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of specified in the applicable MPR(s).
09/01/18-01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA**: Mr. Ballard is the Surveying Project Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
04/17-07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA**: Mr. Ballard served as the firms Survey Project Manager on this project which included a complete topographic survey, utility coordination, channel cross sections, and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.
02/19-09/19	**Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA**: Mr. Ballard is serving Survey Project Manager for this project for East Feliciana Parish Police Jury. It includes the replacement of 2 bridges which were damaged from flooding and the repairs to many rural roadways throughout the parish. These projects are being funded thru FEMA and all documentation has to be in accordance with FEMA's policies and procedures.

01/17-12/17	**East Baton Rouge Parish Bridges, East Baton Rouge Parish, LA:** In 2017, CD&C has performed topographic surveys for at least 4 Bridge Replacement Projects throughout East Baton Rouge Parish. Mr. Ballard served as Survey Project Manager on each of these projects which included cross-sectioning and tracing the channel at each location. These included bridges over Dawson Creek, Claycut Bayou, Copper Mill Bayou, and Cypress Bayou.
10/16 - 11/16	**H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA**: Mr. Ballard served as the Project Manager for this Project. Among the duties performed for the project were review of the crew work conditions, review & processing of the survey data, verification, and review of final submittal. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge, **3D Terrestrial Scanning** was incorporated in conjunction with traditional means to complete the topographic survey. Due to the nature of the project being an Emergency Bridge replacement all staff worked on this project non-stop until field work was completed in less than 3 weeks.
09/17 -09/17	**H.012650.5-1 District 62 Bridges, Livingston and Tangipahoa Parishes, LA**: Mr. Ballard served as a Survey Project Manager for this project which included 5 bridge sites in District 62. In addition to all of the existing data for the bridge and roadway at each site, each channel was cross-sectioned both upstream and downstream of the bridge. These included bridges over the US 190 Bridge over Gray's creek, 2 bridges on LA 442 both crossing East Hog Branch, LA 1063 over the Natalbany River, and US 51 over Ponchatoula Creek. Several of these bridges including the US190 one was surveyed utilizing **3D Terrestrial Scanning**.
10/15 - 12/18	**H.003184.5 I-10 Texas State Line – East of Coone Gully, Calcasieu Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project which is a 6-lane widening of I-10. Duties performed on this project included the review of the survey information from crew, verification of project delivery schedule, processing of data and final review of submittal of project. 3D Terrestrial Scanning was used in conjunction with traditional means and methods for the completion of this project.
01/16 - 08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project. CD&C provided a complete topo survey & drainage map along with utility coordination for the project. Project duties included processing of data, review of field notes and weeklies, & performing final punch list. This project also included work in the Abita River utilized 3D Terrestrial Scanning for the main route.
10/15 - 01/16	**H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new sidewalk.
06/11 - 09/13	**260-01-0028, H.002372 LA 42 Widening and Improvements, Ascension Parish, LA**: Mr. Ballard worked as a PLS on this project which included boundary and topography, establishing the existing ROW and acquisition of additional ROW.
07/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall within the survey limits. Project included data collection of the topography via traditional means and methods along with **3D terrestrial scanning.**

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**			
Name	Philip Dupree		Years of relevant experience with this employer	11
Title	Survey Party Chief		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization				
Active registration number / state / expiration date			NSPS Certified Survey Technician, Level III, Boundary Cert. No. 0799-1106 Nationwide; ATSSA Certified as Registered Flagger ATSSA Certified Traffic Control Tech & Traffic Control Supervisor	
Year registered		Discipline		
Contract role(s) / brief description of responsibilities			Mr. Dupree is the Senior Survey Party chief who will work to oversee a crew as well as aide in coordinating all crews with Survey PM to ensure field work is being completed timely and accurately.	

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).
07/20 – 04/21	**H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish**: r. Dupree was the Senior Party Chief & Field Coordinator for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. The topographic data for this project was collected traditionally.
01/18-02/2020	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA:** Mr. Dupree is the Survey Party Chief for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415.
07/17-12/2018	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Dupree is serving as Field coordinator on this project by working specifically to set the control on the job and overseeing field crews as they work to complete the topography.
10/15-12/2018	**H.011235 I-49 South at Verot School Road, Lafayette, LA:** Mr. Dupree served as Field coordinator on this project. He resurrected the original control set on the project and oversaw the checking of it. Mr. Dupree was the field coordinator with the R/R and also the SUE contractor on the project. He oversaw all field crews and ensured that the project was completed accurately and timely.
01/16-08/2016	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA:** Mr. Dupree served as Field coordinator on this urban roadway topography project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and scan crews and completed the project accurately and on schedule.

10/16-11/2016	**H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA**: Mr. Dupree served as Field coordinator on this project. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge**,** 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete the topographic survey.
07/14/10/2015	**H.010319.5 I-110 North St. to Plank Road, Baton Rouge, LA:** Mr. Dupree served as Field coordinator on this heavily traveled Interstate project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and scan crews and completed the project accurately and on schedule. He also coordinated with the district and state police to oversee the rolling lane closure that was required to obtain the drainage invert data.
05/13-07/13	**H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA**: Mr. Dupree served as Senior Party Chief for this project located in West Baton Rouge Parish. The intent is to create a grade separation at the intersection of LA 1 and the R/R spur for DOW. CD&C is performing all of the topographic survey for this project including utility coordination and R/R coordination and permits so that CD&C can survey the spur and parallel line.
10/14-12/14	**H.011088.5 West Prien Lake, Lake Charles, LA**: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. This project was to provide topographic survey for a new route to be constructed. Topographic survey and DTM was required along the proposed alignment including all utilities and all drainage with the survey limits.
02/14-03/17	**H.010620 I-49 Design Build**: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. CD&C also produced ROW maps for the project. Mr. Dupree also was the lead Party Chief for the property surveys on this project.

17. Firm Experience:

See Project Sheets on subsequent pages.

Project Name	Project Relevance
LA 342: Roundabout @ LA724	Road, Survey
I-10: LA 347 to Atchafalaya Fldwy Bridge	Road, Survey
LA347: Roundabout @ Melancon Rd	Road, Survey
I-20: Exit Lane Extensions Exits 3 & 5 Route I-20	Road
US 171 : J-Turns @ N. Perkins Ferry Road	Road
US 190B at Jefferson Avenue Roundabout	Road, Traffic
US 90 Ramps at LA 88 Roundabouts	Road, Traffic
Lee Drive (Highland Road-Perkins Road)	Road, Traffic
US 190 Superstreet	Survey
I-10: LA 415 to Essen Lane on I-10 and I-12	Survey
Verot School Road	Survey

17. **Firm Experience**

Firm Name	**SIGMA CONSULTING GROUP, INC.**		Past Performance Evaluation Discipline(s)	**Survey, Road**	
Project name	**LA 342: Roundabout @ LA 724 Route LA 342**		Firm responsibility (prime or sub?)	**Prime**	
Project number	**H.002163**	Owner's name	**LA DOTD**		
Project location	**Lafayette Parish**		Owner's Project Manager	**Tim Nickel, PE**	
Owner's address, phone, email	**P.O. Box 94245, Baton Rouge, LA 70806, 225-379-1110, Timothy.Nickel@la.gov**				
Services commenced by this firm (mm/yy)	**01/14**	Total consultant contract cost ($1,000's)		**$282.8**	
Services completed by this firm (mm/yy)	**07/16**	Cost of consultant services provided by this firm ($1,000's)		**$282.8**	

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

This project included full topographic surveying, right of way mapping, and road design for a new single lane roundabout in Lafayette, LA.

Sigma designed a roundabout at the intersection of Ridge Road and Fieldspan Road. The intersection geometry includes an urban two-lane highway to the east (LA 342), a local two lane road to the west (Ridge Rd.), and an urban two lane highway to the north (LA 724) and south (LA 342 / LA 724). The design of the project is in conformance with EDSM VI.1.1.6, along with all recommendations from the project roundabout study. The project included subsurface and open ditch drainage through and area with minor historic flooding and very little hydraulic fall.

The topo survey included topography of the existing roadway, drainage features, existing utilities and roadside features. Sigma coordinated with the DOTD District 03 Utility Coordinator and utility owners for utility impacts to the project. Right of way maps were also prepared by Sigma in accordance with DOTD Location & Survey requirements.

Sigma Firm Members Involved:

In Charge: Robbie Lear
Josh Renard
Greg Sepeda
Alex Farr
Miles Williams
Lance Amedee
Donnie Thymes

Topographic / Property Survey & R/W Maps

- GPS Control Sketch
- Field Topography
- Property Survey
- Title Research Reports
- Right of Way Maps
- Utility Coordination: QL-D and QL-C
- Topographic Mapping with INROADS Survey

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Construction Cost = $1.75M

Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry
- Design Report
- Typical Sections
- Geometric Details
- Plan / Profiles
- Drainage Design
- Cross Sections
- Permanent Signing & Striping
- Construction Sequencing
- Engineer's Construction Cost Estimate & Quantities
- Microstation / CadConform Plan Delivery

17. **Firm Experience**

Firm Name	**SIGMA CONSULTING GROUP, INC.**		Past Performance Evaluation Discipline(s)	**Road, Survey**	
Project name	**I-10: LA 347 to Atchafalaya Floodway Bridge**		Firm responsibility (prime or sub?)	**Prime**	
Project number	**H.003014**	Owner's name	**LA DOTD**		
Project location	**St. Martin Parish**		Owner's Project Manager	**Nick Olivier, PE**	
Owner's address, phone, email	**P. O. Box 94245, Baton Rouge, LA 70806, (225) 379-1133**				
Services commenced by this firm(mm/yy)	**06/13**	Total consultant contract cost ($1,000's)		**$852.7**	
Services completed by this firm (mm/yy)	**Ongoing**	Cost of consultant services provided by this firm ($1,000's)		**$852.7**	

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

Sigma is the prime consultant for this project which includes topographic and control surveying, interstate highway design, diamond interchange design with roundabouts at the ramp termini, and roadway improvements to LA 347.

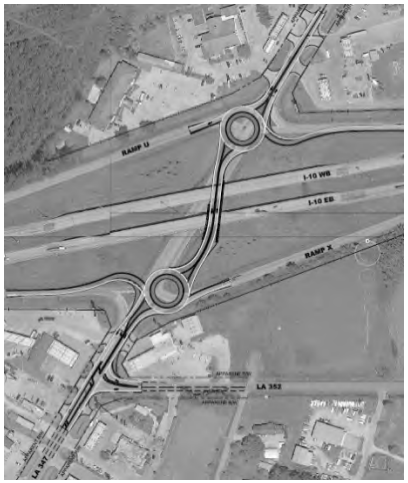
Sigma performed the topographic survey which includes four bridges, a wooded median, drainage structures and outfalls, interchanges, roadways along LA347 and LA352, and utility crossings. LA DOTD survey and linework codes were used in the field. Sigma used Inroads Survey, CadConform, and LA DOTD codes to prepare the topographic map and required .fwd, .dtm, and .alg files for this project.

The interstate design includes 3 lanes in the WB direction and 2 lanes in the EB direction separated by either a median barrier or a wooded median. A complex sequence of construction was developed to allow for construction of new ramp termini at LA 347 with roundabouts and to handle traffic at the Atchafalaya Basin Bridge for approach slab construction. Sigma coordinated closely with DOTD Bridge Design section, which was responsible for bridge widening at two locations. Detailed hydraulic analysis of the outfall channel adjacent to LA352 including HEC-RAS modeling was conducted by Sigma to alleviate flooding problems at the interchange.

Sigma assembled the multi-discipline plan set, quantities, pay items and worked with DOTD Project Management to develop the estimated construction costs. Sigma is currently providing construction support.

Road Design (Preliminary & Final Plans)

- Expedited Schedule
- Interstate Highway Design
- Interchange Design - Roundabout Design
- Typical Sections – PCC and Asphalt Alternates
- Open Ditch and Subsurface Drainage Design
- Plan Profiles
- Geometric Details
- Complex Sequence of Construction
- Level 4 Traffic Management Plan
- Cross Sections
- Permit Sketches
- Coordinated Roadway Lighting with Sub
- Utility Conflict Matrix & Coordination with District Utility Engineer
- Construction Support
- Multi-Discipline Plan, Pay Item, Cost Estimate Assembly
- QA/QC Checklist



Sigma Firm Members Involved:

In Charge: Robbie Lear

Greg Sepeda	Miles Williams
Alex Farr	Bryan Harmon
Derek Wheat	Josh Renard

17. **Firm Experience**

Firm Name	**SIGMA CONSULTING GROUP, INC.**		Past Performance Evaluation Discipline(s)	**Survey, Road**	
Project name	**LA 347: Roundabout @ Melancon Rd. Route LA 347**		Firm responsibility (prime or sub?)	**Prime**	
Project number	**H.009456**	Owner's name	**LA DOTD**		
Project location	**St. Martin Parish**		Owner's Project Manager	**Christina Brignac, PE**	
Owner's address, phone, email	**P.O. Box 94245, Baton Rouge, LA 70806, 225-379-1445, Christina.Brignac@la.gov**				
Services commenced by this firm (mm/yy)	**01/14**	Total consultant contract cost ($1,000's)		**$297.9**	
Services completed by this firm (mm/yy)	**12/16**	Cost of consultant services provided by this firm ($1,000's)		**$297.9**	

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

This project included full topographic surveying, right-of-way mapping, and road design for a new single lane roundabout in Breaux Bridge, LA.

Sigma designed a single-lane 4-legged roundabout at the intersection of LA 347 and Doyle Melancon Rd. / Extension. The design of the project is in conformance with EDSM VI.1.1.6, along with all recommendations from the project roundabout study. The project included relocation of a large drainage ditch and 72" CMPA subsurface drainage. The geometrics were designed to eliminate impacts to a significant oak tree at the southeast quadrant of the intersection.

The topo survey included topography of the existing roadway, drainage features, existing utilities and roadside features. Sigma coordinated with the DOTD District 03 Utility Coordinator and utility owners for utility impacts to the project. Right of way maps were also prepared by Sigma.

Sigma Firm Members Involved:

In Charge: Robbie Lear
Josh Renard
Greg Sepeda
Alex Farr
Miles Williams
Lance Amedee
Donnie Thymes

Construction Cost = $2.6M

Topographic / Property Survey & R/W Maps

- GPS Control Sketch
- Field Topography
- Property Survey
- Title Research Reports
- Right of Way Maps
- Utility Coordination: QL-D and QL-C
- Topographic Mapping with INROADS Survey

Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry / Design Report
- Typical Sections
- Geometric Details
- Plan / Profiles
- Drainage Design
- Cross Sections
- Permanent Signing & Striping
- Construction Sequencing
- Engineer's Construction Cost Estimate & Quantities
- Microstation / CadConform Plan Delivery

17. **Firm Experience**

Firm Name	**SIGMA CONSULTING GROUP, INC.**		Past Performance Evaluation Discipline(s)	**Road**	
Project name	**I-20: Exit Lane Extensions Exits 3 & 5 Route I-20**		Firm responsibility (prime or sub?)	**Prime**	
Project number	**H.010202**	Owner's name	**LA DOTD**		
Project location	**Caddo Parish**		Owner's Project Manager	**Trey Jesclard, PE**	
Owner's address, phone, email	**P.O. Box 94245, Baton Rouge, LA 70806, 225-379-1445, trey.jesclard@la.gov**				
Services commenced by this firm(mm/yy)	**08/13**	Total consultant contract cost ($1,000's)		**$152.1**	
Services completed by this firm (mm/yy)	**08/15**	Cost of consultant services provided by this firm ($1,000's)		**$107.2**	

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

This project is a safety project issued as a task order under our Safety Retainer contract with LA DOTD. The project included road design to extend three deceleration lanes at two exits on I-20 west of Shreveport, LA. These locations include I-20 Eastbound at US 79 (Exit 3), I-20 Eastbound at US 80 (Exit 5) and I-20 Westbound at US 80 (Exit 5). The exits are near truck stops that serve many trucks on a daily basis. The extension of the deceleration lanes allow for trucks exiting the interstate to decelerate outside of the through lanes and not disrupt the normal flow of traffic. The design included replacement of the inside 4' shoulder with full depth asphalt pavement to accommodate temporary traffic shifts necessary for construction. Also, the ramp exit gore area was redesigned to include escape tapers in accordance with SC-01.

All work was performed inside the existing right of way.

Sigma Firm Members Involved:
In Charge: Josh Renard
Greg Sepeda
Robbie Lear
Miles Williams
Lance Amedee
Donnie Thymes

Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry / Design Report
- Typical Sections
- Geometric Details
- Plan / Profiles
- Drainage Design
- Graphical Grades for Superelevated Exit Curves and Transitions
- Cross Sections
- Permanent Striping
- Construction Sequencing
- DOTD Electronic Plans Deliverables and CadConform
- Level 4 Transportation Management Plan (TMP)
- Engineer's Construction Cost Estimate & Quantities

17. **Firm Experience**

Firm Name	**SIGMA CONSULTING GROUP, INC.**		Past Performance Evaluation Discipline(s)	**Survey, Road**	
Project name	**US171: J-Turns @ N. Perkins Ferry Road**		Firm responsibility (prime or sub?)	**Prime**	
Project number	**H.010197**	Owner's name	**LA DOTD**		
Project location	**Calcasieu Parish**		Owner's Project Manager	**Trey Jesclard, PE**	
Owner's address, phone, email	**P.O. Box 94245, Baton Rouge, LA 70806, 225-379-1445, Trey.Jesclard@la.gov**				
Services commenced by this firm (mm/yy)	**09/13**	Total consultant contract cost ($1,000's)		**$145.4**	
Services completed by this firm (mm/yy)	**10/15**	Cost of consultant services provided by this firm ($1,000's)		**$145.4**	

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

This project is a safety project issued as a task order under our Safety Retainer contract with LA DOTD. The project included full topographic surveying and road design to install new J-Turns and associated turn lanes at the intersection of N. Perkins Ferry Road and US Highway 171 north of Lake Charles, LA.

The project included the following features:

- Addition of a right turn lane on N. Perkins Ferry Road EB to US 171.
- Modifications to the existing median opening to only allow left turn movements from US 171 NB onto N. Perkins Ferry Road WB.
- Addition of a left turn lane on US 171 SB and median opening 1450' south of the intersection for the J-Turn, and shoulder improvements to US 171 NB to accommodate the U-turn turning movement.
- Addition of a turn lane on US 171 SB 1500' north of the intersection and a single lane ramp to tie back into N. Perkins Ferry Road WB.

Sigma coordinated with the DOTD District 07 Utility Coordinator and utility owners to ensure proper depiction of existing utilities.

Sigma Firm Members Involved:
In Charge: Greg Sepeda
Robbie Lear
Miles Williams
Lance Amedee
Donnie Thymes

Construction Cost = $810k

Topographic Survey / Property Survey & Right-of-Way Maps

- GPS Control Sketch
- Utility Coordination: QL-D and QL-C
- Topo Mapping with INROADS Survey
- Property Survey
- Title Research Reports
- Right-of-Way Maps

Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry
- Typical Sections
- Geometric Details
- Plan/Profiles
- Drainage Design
- Cross Sections
- Permanent Pavement Markings
- Construction Sequencing
- DOTD Electronic Plans Deliverables and CadConform

Firm Name	ARCADIS	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project name	**US 190B at Jefferson Avenue Roundabout Design**	Firm responsibility (prime or sub?)	Sub
Project number	4400004401 (H.011260.5)	Owner's name	LaDOTD – District 62
Project location	St. Tammany Parish, LA	Owner's Project Manager	Jennifer Branton
Owner's address, phone, email	685 N Morrison Blvd, Hammond, LA 70401/ T: 985 375 0165 / E: jennifer.branton@la.gov		
Services commenced by this firm (mm/yy)	06/2015	Total consultant contract cost ($1,000's)	$486
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$392

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

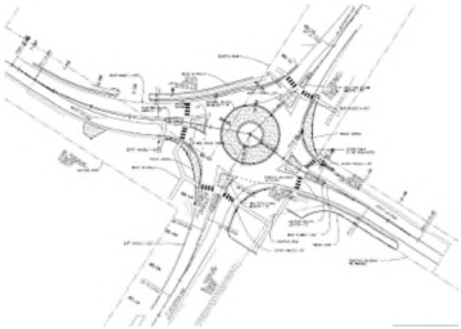
Firm's Role: Roundabout Geometric Design; Urban Drainage Design; Pavement Marking and Signing; Construction Sequencing and Signing; Preliminary Plans Development; Construction Cost Estimate; Engineer in Responsible Charge; Independent Technical & Quality Reviews

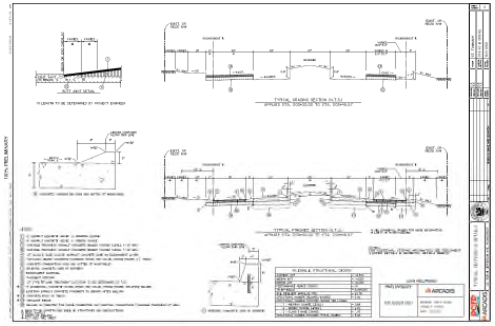
Firm Members Involved: Toby Picard, David Fulks; Garret Keller; Craig Raymond; Buddy Porta; Greg Badon, Brandon Pitre, Thomas Montz

The LaDOTD contracted Aucoin & Associates and its sub consultant, Arcadis, to prepare roadway construction plans for a single-lane roundabout to replace the existing traffic light at the intersection of US 190B and Jefferson Avenue located in the business district of Covington. The existing intersection includes an east-west urban two-lane highway (US 190B, locally named 21st Ave.) and a north-south local street (Jefferson Ave.). US 190B features a "dog-leg" at its intersection with Jefferson Ave. The installation of this roundabout is aimed at promoting mobility and safety along the corridor.

Relevant Services

- Roadway Geometric Design
- Typical Sections
- Urban Drainage Design
- Construction Signing and Sequencing
- Limits of Construction and Required ROW
- Roadway Signing and Striping
- LaDOTD Design Report (2017 Guidelines)
- LaDOTD Plan Development and Review
- LaDOTD Design Guidelines, EDSMs, and Roadway Design Manual.
- LaDOTD Detailed Pay Item Construction Cost Estimate and Quantity Calculations.
- Coordination with LaDOTD Design and Construction Staff.
- Pedestrian Accommodations.
- Signal Design for Temporary Signalization of Intersection





Arcadis performed all engineering services for this task order, including InRoads modeling of the roundabout, as a pass-through from Aucoin & Associates under their safety retainer contract.

The design was prepared in accordance with the LaDOTD Design Guidelines and the Roadway Design Procedures and Details Manual. Although the route is signed to restrict through truck traffic, the roundabout was designed to accommodate the WB-67 design vehicle to allow for local deliveries. Also, the LaDOTD Complete Streets policy was followed by including ADA-compliant ramps and crosswalks to incorporate the existing sidewalks and accommodate pedestrian traffic around the roundabout.

To arrive at the best Alternative, Arcadis performed a context sensitive solutions review of several different design layouts including both circular and oval shaped options for the roundabout. This exercised was aimed at carefully balancing right-of way and utility impacts to help the LaDOTD determine the best suited layout for the project site.

Arcadis completed 100% Preliminary Plans and 60% Final Plans. The project did not progress past the 60% Final Plan milestone, since LaDOTD halted the project due to concerns over right-of-way.

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project name	**Safety Design IDIQ - US 90 Ramps at LA 88 Roundabouts**	Firm responsibility (prime or sub?)	Sub
Project number	H.011495	Owner's name	Louisiana Department of Transportation and Development
Project location	Iberia Parish, LA	Owner's Project Manager	Brent Domingue
Owner's address, phone, email	428 Hugh Wallis Rd, Lafayette, LA 70508 / T: 337 262 6210 / E: christopher.domingue@la.gov		
Services commenced by this firm (mm/yy)	11/16	Total consultant contract cost ($1,000's)	$549
Services completed by this firm (mm/yy)	05/20	Cost of consultant services provided by this firm ($1,000's)	$504

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

Firm members involved: David Fulks, Garret Keller, Buddy Porta, Ari Deitch

Arcadis was tasked to prepare *preliminary and final roadway plans* to install two single lane roundabouts at the US 90 ramp intersection with LA 88 in Iberia Parish. The project also included modifying the LA 88/Service Road intersections to restricted crossing U-turn (RCUT) intersections. The *installation of the roundabouts is aimed at promoting mobility and safety along the corridor.*

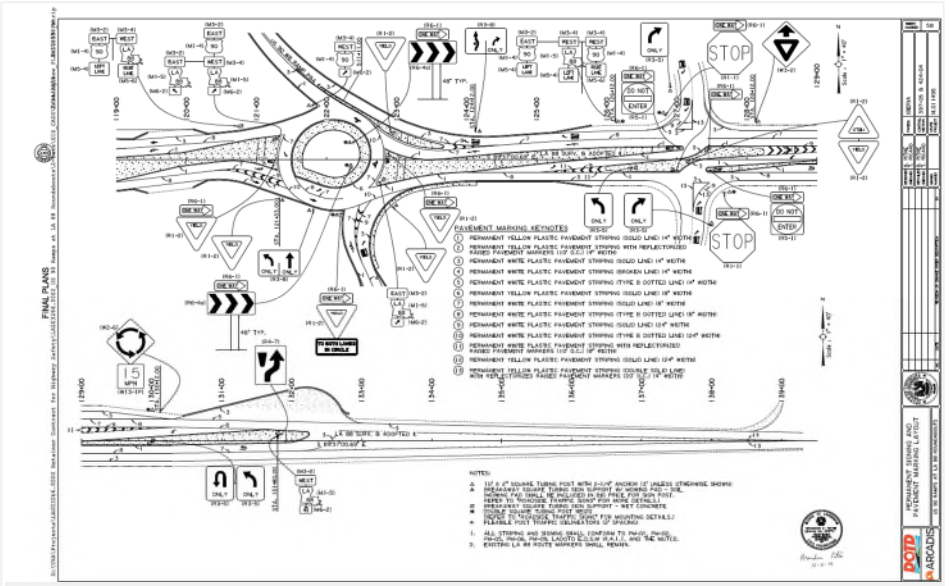
Relevant Services

- Preliminary and Final Design Plans
- Alternative Intersection Design
- Construction Cost Estimates
- Safety Design
- Agency Coordination

Preliminary and Final Design Plans: Arcadis performed all engineering services for this task order to develop a full set of preliminary and final construction plans, including InRoads modeling of the roundabouts, as a pass-through from Aucoin & Associates under their safety design retainer contract. The *design was prepared in accordance with* the *LADOTD Design Guidelines, Roadway Design Procedures and Details Manual and all applicable DOTD EDSMs, AASHTO and FHWA guidelines*. The roundabouts were designed to accommodate a WB-67 design vehicle. Restricted crossing U-turn (RCUT) intersections were designed for the adjacent service roads to enhance safety and adhere to LADOTD's control of access policy. Both the roundabouts and RCUT intersections *provide significant reductions in conflict points and expected number of crashes*.

Construction Cost Estimates: Arcadis prepared engineer's construction cost estimates for the project.

Best Practice: The project team held several design review meetings throughout preliminary plan and final plan development to more c*losely coordinate with LADOTD District 03 and headquarters personnel* prior to proceeding into subsequent design phases. The goal of this team coordination was to ensure all project team members agreed with proposed geometry prior to spending significant time proceeding into the subsequent design phases.



Roundabout design and signing plan at interchange ramps to enhance safety and operations

"Arcadis is very knowledgeable about DOTD policy and procedures regarding design and submittals. Every submittal has been thorough and timely, with proper documentation." *– Lea Smith / Arcadis Rating for US 90: Ramps @ LA 88 Roundabouts / 100% Preliminary Plans*

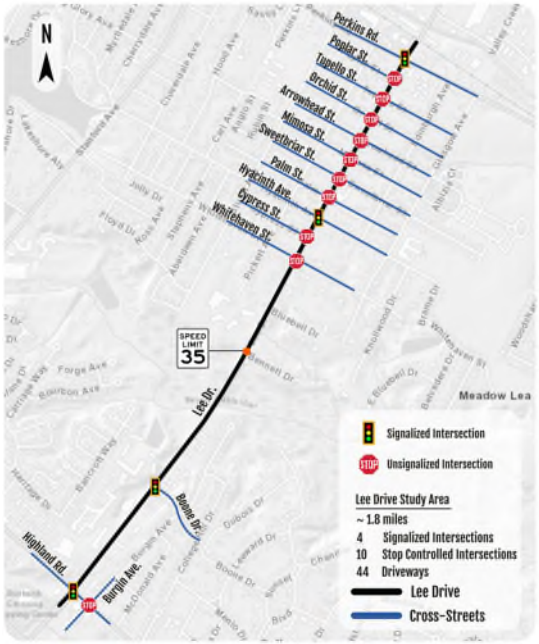
Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project name	**Lee Drive (Highland Road-Perkins Road)**	Firm responsibility (prime or sub?)	Prime
Project number	City-Parish Project No. 20-CP-HC-0044	Owner's name	City of Baton Rouge/Parish of East Baton Rouge
Project location	East Baton Rouge Parish, Louisiana	Owner's Project Manager	Justin Schexnayder
Owner's address, phone, email	8555 United Plaza Blvd., Baton Rouge, LA 70809, (225) 761-3628, justin.schexnayder@csrsinc.com		
Services commenced by this firm (mm/yy)	02/21	Total consultant contract cost ($1,000's)	$2,568
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$1,536

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

Firm's Role: The purpose of this project is to widen Lee Drive from a 2-lane to a 3-lane section between Highland Road and Perkins Road. Arcadis is responsible for design study and design services include ***traffic study*** and report, topographic survey, hydraulic and drainage analysis, ***preliminary and final plans preparation***, ***signal design***, ***bridge design***, ***construction cost estimate***, and right of way maps.

Relevant Services

- Traffic Studies
- Preliminary and Final Plans
- Roadway Design
- Traffic Signal Design
- Intersection Improvements
- Access Management
- Construction Cost Estimates



Firm Members Involved: Jose L. Rodriguez, Ari Deitch, and Gabriel Arias.

Design Study Report and Preliminary Design

Arcadis provided ***traffic engineering studies*** and ***preliminary roadway and drainage design*** and evaluated alignment alternatives. The work was prepared in coordination with the City of Baton Rouge and the MOVEBR Program. A preferred alternative was presented to the City of Baton Rouge based on findings from the traffic study, impacts to existing right-of-way, and a detailed ***construction cost analysis***. Arcadis also assisted the City of Baton Rouge in obtaining public input by participating in public meetings and preparing exhibits for public display.

Final Design Plans and Cost Estimate

For the Final Design Phase, Arcadis is tasked with preparing ***construction roadway plans***, ***right-of-way maps***, and ***construction cost estimates***. The Lee Drive project involves the complete reconstruction of Lee Drive from Highland Road to Perkins Road. The proposed typical section extends approximately 1.7 miles and is a three-lane urban section with a left-turn center lane. The project goal was to improve vehicular traffic capacity and connectivity to all corridor users by delivering safe and efficient pedestrian/bicycle facilities while maintaining neighbourhood integrity. Improvements also include ***sidewalks and bike lanes***, ***traffic signal upgrades***, ***intersection capacity and safety improvements***, and ***access management***.

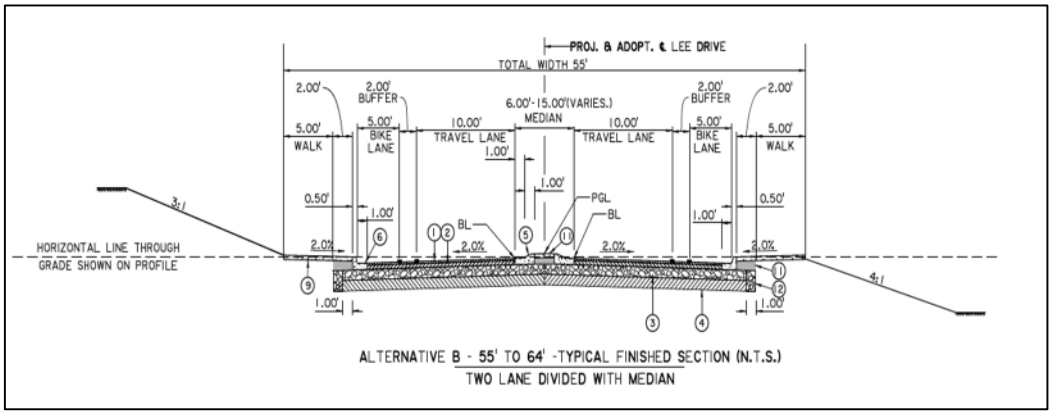


Figure: Proposed Typical Section Alternative on Lee Drive

The design team gave special considerations to traffic and access maintenance, constructability, utility coordination and right-of- way requirements. Ensuring proper drainage during construction and overall drainage improvements was another major factor considered for the project.

17. Firm Experience:

Firm name	**Civil Design and Construction, Inc.**		Past Performance Evaluation Discipline(s)*	**Survey**	
Project name	**US 190 Superstreet**		Firm responsibility (prime or sub?)	**Sub**	
Project number	**H.005733**.5	Owner's name	**LADOTD**		
Project location	**St. Tammany Parish, LA**		Owner's Project Manager	**Josh Harrouch**	
Owner's address, phone, email	**1201 Capitol Access Rd., Baton Rouge, LA 70802/2225-379-123/Joshua.harrouch@la.gov**				
Services commenced by this firm (mm/yy)	**01/16**	Total consultant contract cost ($1,000's)		**N/A**	
Services completed by this firm (mm/yy)	**08/16**	Cost of consultant services provided by this firm ($1,000's)		**$207**	

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

Project Description: This project was the topographic survey of US 190 in Covington. The survey limits were along a portion of the existing routes of US 190, Holiday Square Frontage Road, US 190 Service Road, Holiday Blvd., Holycrest Plaza Driveway, Louis Prima Drive, Park Place Drive, Lake Drive, Crestwood Blvd., 9th Avenue, Three Rivers Road, River Highlands Blvd., Harrison Ave., Maple Ridge Ave., North 12th Street, Sunshine Ave., North 6th Street, Riverside Drive, and North 2nd Street and is approximately 2.9 miles in length.

CD&C's Role: CD&C's role was to provide the complete topographic survey and drainage map for this project including all utility coordination. The survey begins at the intersection of US 190 and Holiday Square Frontage Road. From this point, the survey proceeded in a northerly direction along US 190 for approximately 2.9 miles to a point that is 700 feet South of Intersection of US 190 and E. Boston St. in Covington, LA. The width of the survey and DTM extended to the Western Edge of Pavement to Eastern Edge of Pavement along US 190 and tied in with the existing topographic features picked up on the previous survey done under H.011137.5 and H.011152.5 (Interstate 12 Survey). This also included cross sectioning a portion of the Abita River in the project area. All topographic survey elements were performed in accordance with the latest LADOTD Location and Survey Manual and conformed to the latest standard practices/procedures. All deliverables were in LADOTD required formats. **3D Terrestrial Scanning** was used in conjunction with traditional means and methods to complete this project.

Members Involved: Karla Weston, PE, Ralph Burgess, PLS, Survey Manager; Christopher Ballard, PLS Survey Project Manager; Philip Dupree, Party Chief; Jacob Stoehr, Party Chief; Trent Norris, 3D Scanning Technician

17. Firm Experience:

Firm name	**Civil Design and Construction, Inc.**		Past Performance Evaluation Discipline(s)*	**Survey**	
Project name	**I-10: LA 415 to Essen Lane on I-10 and I-12**		Firm responsibility (prime or sub?)	**Sub**	
Project number	**H.004100**	Owner's name	**LADOTD**		
Project location	**West and East Baton Rouge, LA**		Owner's Project Manager	**Nicholas Olivier**	
Owner's address, phone, email	**1201 Capital Access Rd, Baton Rouge, LA 70802 / 225-379-1232 / Nicholas.olivier@la.gov**				
Services commenced by this firm (mm/yy)	**01/18**	Total consultant contract cost ($1,000's)		**N/A**	
Services completed by this firm (mm/yy)	**01/20**	Cost of consultant services provided by this firm ($1,000's)		**$296**	

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

Project Description: This project is located in West Baton Rouge and East Baton Rouge Parishes in the cities of Port Allen and Baton Rouge, LA. A complete Topographic survey including all utilities (ASCE 38-02, QL "B") with depths and all drainage is required, along with Finish floor elevations of all buildings that fall within the survey limits. The survey begins 1,500 feet West of the western most entrance/exit ramps of the LA 415 and I-10 Interchange. From the I-10, I-12 split the survey shall proceed in southerly and easterly directions along the existing main alignment of I-10 for approximately 1.5 miles & I-12 for approximately 1.5 miles to end the route limits.

CD&C's Role: CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415. **This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.**

Member's Involved: Karla E. Weston, P.E.; Ralph Burgess, PLS. Christopher Ballard, PLS; Phil Dupree, Party Chief; Jacob Stoehr, Party Chief; Trent Norris, 3D scanning technician; John Ewing, Survey Tech

17. Firm Experience:

Firm name	**Civil Design and Construction, Inc.**		Past Performance Evaluation Discipline(s)*	**Survey**	
Project name	**Verot School Road**		Firm responsibility (prime or sub?)	**Sub**	
Project number	**H.011235**	Owner's name	**LADOTD**		
Project location	**Lafayette, LA**		Owner's Project Manager	**Thomas Gattle (Huval & Assoc.)**	
Owner's address, phone, email	**922 W. Point Des Mouton Rd., Lafayette, LA 70507/337-234-3798/tgattle@huvalassoc.com**				
Services commenced by this firm (mm/yy)	**08/16**	Total consultant contract cost ($1,000's)		**N/A**	
Services completed by this firm (mm/yy)	**01/18**	Cost of consultant services provided by this firm ($1,000's)		**$435**	

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

Project Description: This project is located in Lafayette Parish between Lafayette Regional Airport and Broussard, LA. The project is for the proposed widening of US 90/I-49 South and realignment of Verot School Road. A topographic survey was performed along the entire proposed route as well as an existing drainage map. This included a complete topographic survey of all utilities with depths, drainage and finished floor elevations of all buildings that fell within the designated survey limits. Also, CD&C was required to coordinate with the topographic survey of the adjacent I-49 Connector project and include required portions of the I-49 Connector project with the survey of this project.

CD&C's Role: CD&C performed a complete topographic survey of the project site by using **3D Terrestrial Scanning in conjunction with traditional means to complete the survey. Control was set for the scanning throughout the project limits.** Coordination with Cardno, Inc. (Team member) was necessary for the location of all utilities in the project area. CD&C also coordinated with all the property owners for access to the properties and also meet with safety advisors for the industrial business that were impacted. The survey included coordination with the ongoing I-49 Connector project and merging of that survey to the CD&C survey in order to make a complete project for the area. CD&C also researched and compiled an existing right of way linework for the prime consultant to use for exhibits for the project. In order to complete the survey CD&C also had to coordinate with BNSF railroad for access to BNSF's rail.

Members Involved: Karla Weston, PE; Ralph Burgess, PLS Survey Manager; Christopher Ballard, PLS Survey PM; John Ewing, Survey Tech; Trent Norris, 3D Scan Tech; Phil Dupree, Party Chief; Jacob Stoehr, Party Chief;

Performed in LA: 100%

18. Approach and Methodology:

Sigma has served as the prime consultant on multiple roadway and intersection projects, including IDIQ contracts, for DOTD and understands the delivery and production processes for these types of projects. We have also served on several large project teams where communication, identifying team responsibilities and deadlines, and data sharing were paramount to the success of the project.

Most safety projects arise because there is an identifiable safety deficiency that includes risk to the motoring public. As such, we appreciate DOTD's urgency for getting these projects to delivery quickly. Our team was assembled to make sure we have experienced team members and adequate resources to reach this goal. Please refer to Section 16 for additional information. The following is our approach to each component of a typical task order:

Pre-Task Order Scope and Task Development

At the onset of a potential task order, Sigma will work with the project manager to develop the contract scope and items necessary to deliver the project. We will work with the project manager to develop the blank manhour spreadsheet, sheet count, and conceptual delivery schedule. This early coordination ensures that both DOTD and Sigma are on the same page with respect to project goals, deliverables, and expectations. Once these items are established, independent manhour estimates will be completed for negotiated fee projects.

Kick-Off Meeting / Pre-Design Planning Conference & Work Planning

Once a Notice to Proceed is issued, Sigma and the DOTD will hold a project kickoff meeting, preferably in person. The appropriate DOTD team members and Sigma will walk through the project scope, discuss the items listed in the ***Reconnaissance Evaluation / Pre-Design Planning Conference Form***, determine the dates for milestone deliverables, and estimate DOTD review periods at each milestone. The project design criteria, Stage 0 identified environmental constraints, and safety concerns will also be discussed and documented. Any DOTD provided services such as as-builts, geotechnical data, pavement design, environmental permitting needs, etc. will be requested at this meeting. All project points of contact with contact information will be collected and minutes of the meeting will be distributed to all pertinent personnel.

Topographic Survey / Property Survey

Civil Design & Construction will perform the surveying services needed to design the proposed project. With multiple survey crews, we will always have the resources to quickly mobilize and collect data necessary for design. We also plan to use existing R/W maps and/or perform title take-offs during the topographic survey phase to assist with locating property corners and to set the apparent R/W. This will allow DOTD to expedite the property survey phases if necessary and eliminate multiple visits to the same site. DOTD Location & Survey standards will be followed for all surveying services. The use of scanning technology will be incorporated where possible to avoid any traffic disruptions and for the safety of our surveying personnel. Final deliverables will be in accordance with DOTD Location and Survey requirements, including Microstation and Inroads Survey automation for mapping and terrain modeling.

- ✓ **Work Zone** - All staff performing pre-construction services such as design, survey, and utility work have been trained in work zone safety. Whenever work shall affect the movement of traffic or traffic safety, we shall provide traffic control in conformance with the MUTCD and under the direction of a Traffic Control Supervisor (TCS). Prior to contract execution, Sigma will ensure that all appropriate personnel meet the work zone training requirements.

All utilities within the project limits, above and below ground, shall be located. Establishment of utility ownership shall also be included. Utility locates will be to Quality Level D or C services as defined by CI/ASCE Standard 38-22. Both Sigma and CD&C have SUE capabilities and experience and can assist DOTD in this discipline of work as needed.

Preliminary & Final Plan Preparation

With the goal of streamlining plan delivery, Sigma will meet with DOTD to assess the complexity of the project and designate appropriate submittals. Sigma will prepare design reports, design waivers and exceptions when necessary, plans, opinions of probable costs, pay item quantities, TMP's, constructability and biddability reviews and QA/QC forms for all projects. The preliminary and final plan development process will typically follow the ***Road Design Tasks for Completion Milestones*** chart shown as Figure 1-03 in the DOTD Road Design Manual.

Our engineers will evaluate the site for general constructability and maintenance of traffic. Conceptual detour routes and/or diversion applications will be evaluated. We approach each project with constructability as a primary attribute in the design process. Also, by integrating planning, engineering and construction together in the project delivery process, we find that overall project success increases.

- ✓ **NEPA Training** - While our professional engineers possess the knowledge and expertise in DOTD standard specifications and design requirements, we want them to be familiar with environmental constraints and processes. Therefore, we encourage most of our project managers to attend the NHI Course #142005 for NEPA and Transportation Decision Making Processes.

Sigma is complimented by Arcadis, who will provide any traffic analysis and traffic studies required to further identify the project need and scope a solution. All traffic analyses will follow DOTD's Traffic Engineering processing and Report guidelines (TEPR). The study scope will be developed based on the preliminary site visit to study area, coordination with District Traffic Operation Engineer and local agencies for additional information on study area characteristics. Scope, schedule and tools to be used for the study will be discussed in detail during kick-off meeting. All the data collection tasks required for traffic analysis will be performed as per DOTD's TEPR guidelines and the project manager will be updated for consent before proceeding to next task.

- ✓ **TEPR Training** - All traffic engineers with Arcadis have taken the DOTD Traffic Engineering Process and Report course. To help understand the process and make sure the necessary data is coordinated with the design team, Sigma has assigned one professional engineer, Alex Farr, to work with Arcadis. Alex has also taken the TEPR course as well as highway safety training.

The preparation of opinions of probable construction costs (OPCC) will be prepared, beginning at the 90% Preliminary Plan and updates with every subsequent submittal. The 90% Preliminary Plan submittal will include a draft of the Transportation Management Plan (TMP) for review by all stakeholders.

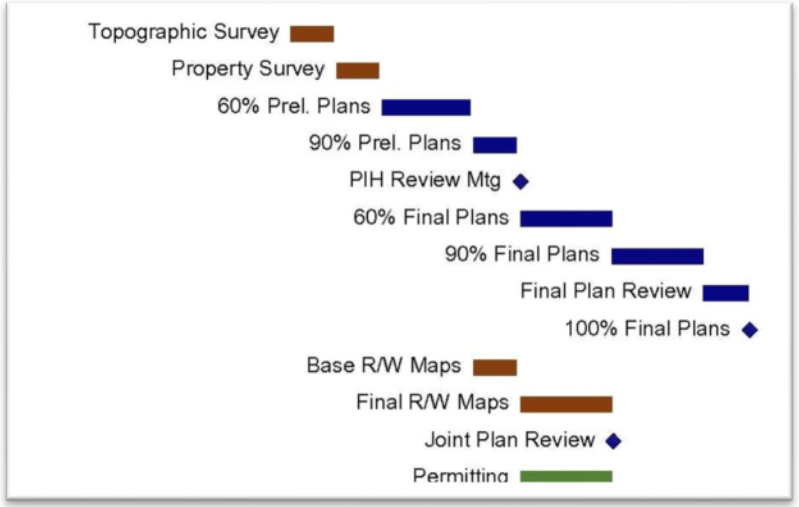
- ✓ **Traffic Control Plans** –The project team will develop the TMP as applicable to each task order in accordance with EDSM VI.1.1.8. The level of TMP will be determined based on the project's location and impact to the roadway network. Determining the TMP level prior to project scoping is imperative to ensuring that all TMP requirements are included in the scope and that all necessary traffic data is collected to support any required analysis. The project team will coordinate closely with the project team, DOTD, and District Traffic Operations Engineer (DTOE) to ensure a mutual understanding of local needs and that proposed mitigation measures are appropriate for the area. All key team members have received Traffic Control Supervisor (TCS) training to facilitate preparing the temporary traffic control plans. QA/QC will be provided by Greg Sepeda who has also received TCS training. All have experience in developing multi-phased sequencing for road construction.

Permitting Services

Concurrent with final plan development, Sigma will prepare draft applications and/or permit figures for the Coastal Use Permits and/or the USACE Permits for DOTD review. These will be submitted with the 60% final plan submittal. With all project managers having NEPA training, we will be able to identify any other environmental constraints or permitting requirements. The DOTD Environmental Checklist will be prepared when necessary to identify if a Categorical Exclusion is appropriate for the project. CE's are anticipated for most safety projects.

Schedule

Sigma has worked on numerous roadway safety projects for LADOTD and understands the delivery and production processes for these types of projects. This allows us to "hit the ground running" and accelerates the project initiation phase, which we have learned is a large part of the work effort. We also have a past working relationship with each of our subconsultants with successful partnering and positive project results. We have prepared a schedule of typical phases and major milestones that would be submitted for each task order. The schedule to the right represents an accelerated project delivery with some of the standard milestones eliminated.



Construction Support

We plan to keep the project managers involved on the project into the construction stage. This includes working with the Districts and CE&I consultants to address RFI's, assisting with solutions to unforeseen field conditions, and preparing plan changes when necessary. Sigma has provided construction support for several projects including design-bid-build and design-build projects.

Project Management

Robbie Lear will be the overall contract manager for the IDIQ contract. Robbie, along with Alex Farr and Bryan Harmon will serve as project managers depending on the type and amount of task orders issued. The PM will be responsible for meeting all project delivery requirements and engage subconsultants where necessary. Their duties include preparing monthly status reports to accompany invoices, developing and maintaining project schedules, and preparing internal work plans to meet each project milestone. All three have experience managing local projects and have both the technical experience and management skills to efficiently deliver projects on time and within budget.

Sigma offers a longstanding staff with a strong background in intersection, safety and road design projects. Most of our core engineering group has been with Sigma for over 10 years and has their primary experience in transportation related projects for DOTD. Please refer to the resumes of Section 17 for specific personnel experience. The longevity of the core group helps facilitate the communication necessary for project success. Task orders will be assigned to one of the following 3 project managers:

- ✓ **Robbie Lear, PE, LSI** will also serve as a Project Manager. He has over 24 years of road design experience with DOTD projects, with an emphasis on roundabouts, intersections and interchanges. He is a Certified Traffic Control Supervisor and has designed several complex maintenance of traffic plans and detours for DOTD project. He also has experience in surveying and SUE services for DOTD.

- ✓ **Bryan Harmon, PE** will serve as a Project Manager. He brings over 34 years of experience in the transportation and drainage, with an emphasis on urban projects. As the former Chief Engineer and DPW Director for East Baton Rouge Parish, Bryan has worked hand-in-hand with DOTD and FHWA on a multitude of Urban System projects and brings an invaluable knowledge bank to the table.

- ✓ **Greg Sepeda, PE** is Sigma's chief engineer and will oversee the QC/QA of Sigma's design efforts. With an emphasis on linear projects, Greg sees the "big picture" on delivery. He will also assist with contract management, invoicing and scheduling.

Quality Control / Quality Assurance

Sigma proposes to utilize our currently implemented quality control plan for this contract, which includes DOTD's QA/QC requirements and forms. Built around DOTD's philosophy and internal QA/QC plans, the key components to this plan include communication, redundancy, and application of experience. The first element of our quality control approach is to establish and maintain an open line of communication between all members of the project team and all concerned parties within DOTD. The second element for quality control is applying redundancy throughout the project. This is frequently accomplished by establishing alternate lines of communication, overlapping technical expertise and thorough project documentation. Finally, the 3rd component of maintaining quality throughout the project life is the proper application of our expertise and experience during all phases of work. We intend to assign key members of our staff to vital roles in each and every phase. In order to balance continuity and redundancy, independent reviews by the Principal-in-Charge are incorporated into every project.

Disadvantaged Business Enterprise Requirement

Sigma meets the 6% DBE requirement for this project by teaming with Civil Design and Construction, Inc. CD&C is a woman owned business and will perform 100% of the surveying components of this contract.

Cybersecurity Training

All members of Sigma who have access to ProjectWise through DOTD have completed the LA Dept. of State Civil Service cybersecurity training. In fact, we have enlisted our entire company to complete the training to promote awareness of cyber threats to both ourselves and our clients.

Conclusion

The Sigma Team has experience providing all the elements described in the Scope of Services to DOTD. With our knowledge of DOTD procedures and practices, Sigma can provide the DOTD a staff with an unparalleled depth of hands-on experience, knowledge and desire to serve LADOTD, and perform the services needed within budget and on time.

SIGMA CONSULTING GROUP, INC.
A WAGGONER COMPANY

19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Disciplines(s)*	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Sigma Consulting Group, Inc.	Road	4400019010, H.014415	LA 352 Drainage Improvements	$3,705
		unavail., H.004791	Belle Chasse Bridge & Tunnel Replacement	$5,307
		4400018646, H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	$591,372
		4400019379, H.013797	LA 30: EBR PL - I-10 (Environmental Assessment)	$88,345
		4400019010, H.010652	LA 73: US 61 (Airline) – Essen Lane	$1,533
		4400019010, H.010116	LA 1088: Soult and Trinity Roundabouts	$104,682
		4400024084, H.009300	CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)	$13,544
	Bridge	4400019338	Rural Bridge Replacement Initiative Phase II (South)	
		H.012061	LA 1	$23,651
		H.012565	LA 963	$62,949
		H.012891	LA 300	$40,461
		H.014213	LA 700	$62,531
		H.014215	LA 20	$91,207
		H.014216	LA 682	$90,391
		H.014241	LA 10	$43,525
		H.014251	LA 422	$42,642
		H.014252	LA 1054	$19,230
		H.014253	LA 421	$39,546
		H.014254	LA 955	$194,005
		H.014256	LA 952	$84,031
		H.014257	LA 68	$90,523
		H.014276	LA 975	$29,887
		H.014278	LA 85	$54,661
		H.014279	LA 35	$47,859
		4400025041, H.015333	IIJA Off-System Bridge Program, District 62	$16,305
	CE&I / OV	4400004666, H.002868	Ambassador Caffery & US 90 Interchange Construction Support	$97,186
		4400013274, H.003003	I-10 (East Jct. I-49 to LA328) Construction Support	$4,312
		4400013274, H.010601	I-10 (LA328 - LA347) Construction Support	$255
		4400019680, H.013897	Owner Verification Services For College Drive Flyover Ramp I-10/I-12 West	$43,589
	Survey	4400023782, H.013429	Entity Contract for Downtown Thibodaux Sidewalks	$13,546
	Environmental	4400008711, H.004526	Leeville - Golden Meadow (Ph. 2 Permits)	$210,153

SIGMA CONSULTING GROUP, INC.
ENGINEERING & SURVEYING

19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Disciplines(s)*	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Waggoner	n/a	(no current work)		$0
Arcadis	Road	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$342,731
		4400016923 / H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	$251,394
		4400019010 / H.010116.5	LA 1088: Soult and Trinity Roundabouts	$83,268
	Traffic	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$171,365
		4400024204 / H.012889.5	I-20 Rehab (Pines Road to I-220)	$80,568
		4400017033 / H.005121	LA 1/LA 415 Connector	$93,917
		4400018780 / H.972419.1	SHSP Update and Regional SHSP Marketing/Advertising Support	$6,810
		4400014845 / H.012018.6	Adaptive Traffic Signal Design and Implementation	$17,741
		4400010471 / H.014305.1	US 61: Cardinal Drive to Bert Street	$21,422
		4400019379 / H.013797	LA 30: EBR PL – I-10	$355,478
		4400021121 / H.000413	Cross Bayou Bridge Replacement	$134,059
		4400024084 / H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	$114,877
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$341,309
		4400023690 / H.015213.5	District 04 Pedestrian Safety Improvements	$257,853
		4400018646 / H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$205,108
	ITS	4400016811 / H.013868.5	ITS Program Management and Operations (2022)	$155,434
		4400016811 / H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2022)	$275,760
		4400016811 / H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I)	$79,654
		4400018646 / H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$79,397
	Bridge	4400018646 / H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$377,134
		4400021121 / H.000413	Cross Bayou Bridge Replacement	$152,100
	Environmental	4400004727 / H.002397.2	LA 16 (Pete's Hwy) Interstate 12 Interchange Route	$20,109
		4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$804,100
		4400009281 / H.009932	US 80 Widening: Vancil Road to Well Road Environmental Assessment	$5,343
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$85,327
		4400019338	Rural Bridge Replacement Initiative Phase II (South)	
		H.012061	LA 1	$6,262
		H.012565	LA 963	$7,192
		H.012891	LA 300	$7,151
		H.014213	LA 700	$8,669
		H.014215	LA 20	$13,876
		H.014216	LA 682	$17,683
		H.014241	LA 10	$8,025

19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Disciplines(s)*	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Arcadis (cont.)	Environmental	H.014251	LA 422	$8,787
		H.014252	LA 1054	$6,057
		H.014253	LA 421	$6,031
		H.014254	LA 955	$10,576
		H.014256	LA 952	$12,342
		H.014257	LA 68	$17,159
		H.014276	LA 975	$8,204
		H.014278	LA 85	$10,562
		H.014279	LA 35	$8,471
	CE&I/OV	4400011306 / H.011220.6-1	I-10 CBD2 Carrollton-Lafitte Ave and Supplement Nos. 1 & 2	$148,127
		4400011306 / H.013710.6	I-10: US 61 to Laplace ITS Deployment	$16,239
		4400025046 / H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	$282,879
Civil Design & Construction, Inc.	Survey	4400017091 / TO-3	LWI Statewide Modeling R5 – Task Order #3	$49,852
		4400020019 / H.011833.5	St. Mary Street Sidewalks	$3,236
		4400005673 / H.011235.5	I-49 South @ Verot School Rd	$370,120

20. Certifications/Licenses:

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

Alex Farr, PE	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Ari Deitch, PE, PTOE	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Kester Hollier, PE, PTOE	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3

Robert Lear, PE, LSI	ATSSA Traffic Control Supervisor
Alex Farr, PE	ATSSA Traffic Control Supervisor
Josh Renard, PE	ATSSA Traffic Control Supervisor
Kester Hollier, PE, PTOE	ATSSA Traffic Control Supervisor
Jose Rodriguez, PE	ATSSA Traffic Control Supervisor
Philip Dupree	ATSSA Traffic Control Supervisor

(Certificates available upon request)

Certificate of Completion

presented to

Alex Farr

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

Alex Farr

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

Alex Farr

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

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ari Deitch

for completing the

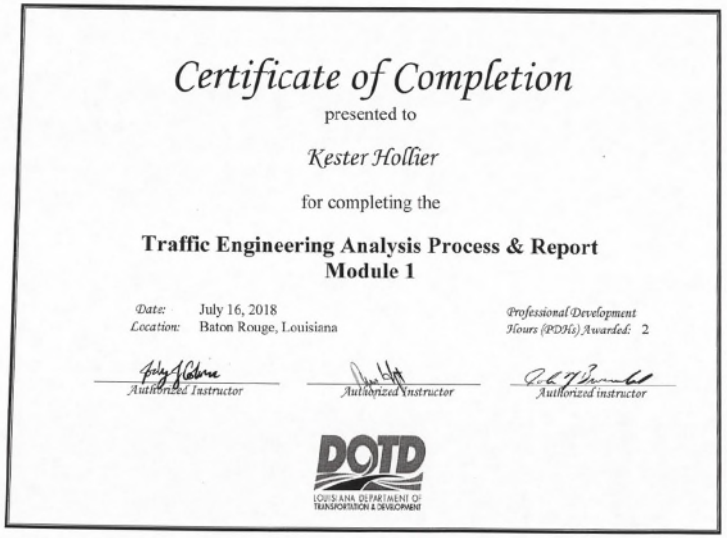
Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kester Hollier

for completing the

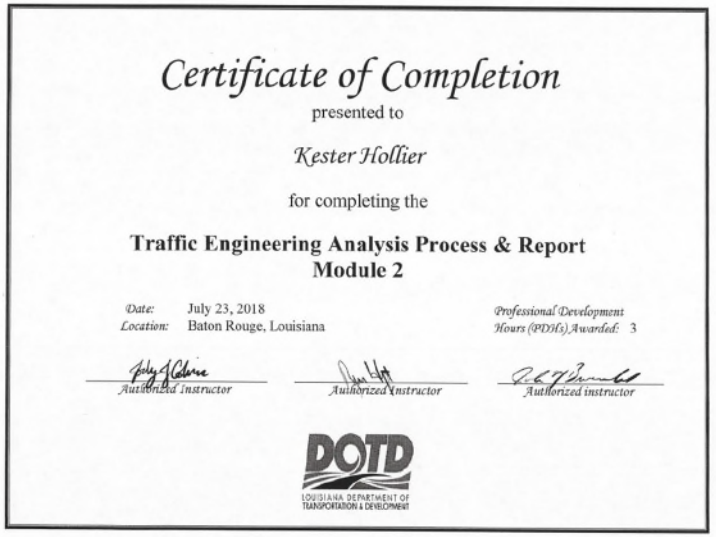
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kester Hollier

for completing the

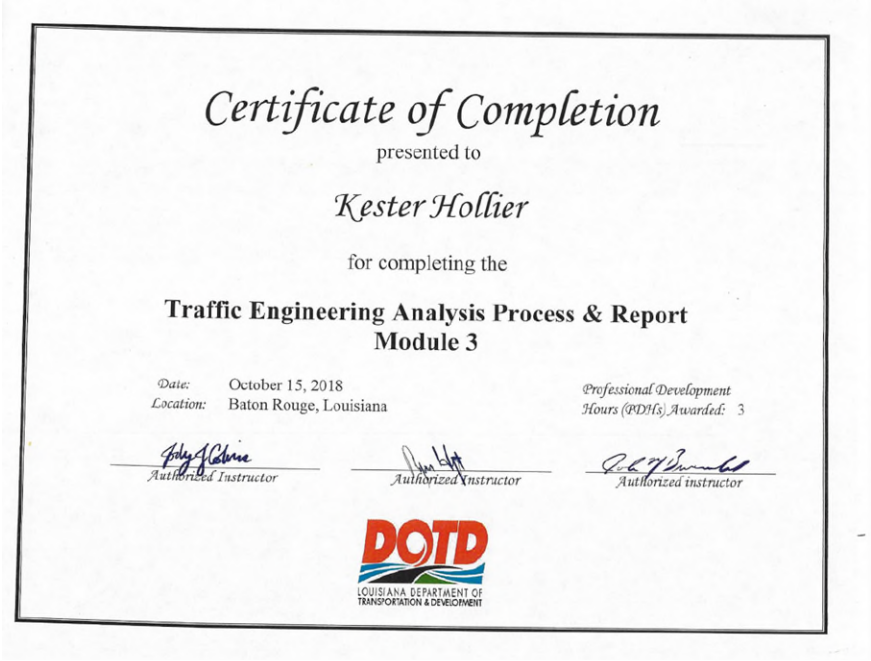
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

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Module 3

Date: October 15, 2018
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Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

21. QA/QC Plan and/or Work Plan:

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

22. **Sub-consultant information:**

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Civil Design & Construction, Inc.	3251 Southern Pacific Road Port Allen, LA 70767	Karla Weston, PE kweston@cdcbr.com	(225) 765-1802
Arcadis U.S., Inc.	10352 Plaza Americana Drive Baton Rouge, LA 70816	Anup Shah, PE anupam.shah@arcadis.com	(919) 415-2251
Waggoner Engineering, Inc.	10305 Airline Highway Baton Rouge, LA 70816	Brant Richard, PE brant.richard@waggonereng.com	(225) 298-0800

23. Location:

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