



IDIQ CONTRACT FOR INTELLIGENT TRANSPORTATION SYSTEMS (ITS), SYSTEM DESIGN, DEVELOPMENT, INTEGRATION AND VERIFICATION SERVICES

STATEWIDE, LA

CONTRACT NO. 4400029393

Prepared for

LOUISIANA DEPARTMENT OF
TRANSPORTATION AND DEVELOPMENT

JUNE 4, 2024

Prepared by

STANTEC CONSULTING SERVICES INC.



RE: IDIQ Contract for Intelligent
Transportation Systems (ITS), System
Design, Development, Integration and
Verification Services
Contract No. 4400029393

**Louisiana Department of
Transportation and Development**
1201 Capitol Access Road
Baton Rouge, LA 70802

Stantec Consulting Services Inc.
1200 Brickyard Lane, Suite 400
Baton Rouge, LA 70802
T: 225.765.7400

Reliable & Efficient Team:
Stantec Consulting Services Inc.
Intelligent Transportation Solutions, LLC
Vectura Consulting Services, LLC
Skyline Technology Solutions, LLC
ASE Services, Inc.

Dear Members of the Project Evaluation Team:

The Louisiana Department of Transportation and Development (DOTD) will undertake significant intelligent transportation system (ITS) design, development, and integration activities over the next few years. The upcoming procurement and integration of DOTD's advanced transportation management system (ATMS), advanced traveler information system (ATIS), and video distribution management system (VDMS) software represents an opportunity to leverage industry best practices while planning for emerging technologies like connected and automated vehicles (CAVs) and artificial intelligence (AI). This contract will require a team that combines a deep institutional knowledge of DOTD with a broad view of ITS strategies at a national scale.

The Stantec team has supported the DOTD ITS Section for over 20 years and has successfully managed six DOTD ITS IDIQ contracts which have included more than 100 task orders. Our most relevant experience to this advertisement includes delivering the systems engineering analysis for a combined ATMS and ATIS software as well as the facilitation of DOTD's agency-wide CAV working group. We are already positioned to deliver uninterrupted services on these tasks as the ATMS/ATIS software moves to deployment and the CAV working group continues to guide DOTD. At the same time, we are excited to bring fresh ITS approaches and perspectives to DOTD through new teaming partners and cutting-edge projects we have led nationally. For example, we are currently working with the Tennessee Department of Transportation to develop, deploy, and integrate a first-of-its-kind AI-driven decision support system to manage complex active freeway management and active arterial management tools along the I-24 SMART Corridor.

Our team has the breadth to deliver whatever task orders arise on this contract. The 80+ local professionals from our combined team have worked with most Sections throughout DOTD, providing us with the experience and relationships to deliver complex projects. Our team also brings additional value to support complex and critical components including cybersecurity and network architecture and management consulting services.

We are excited to continue providing immense value to DOTD as well as the transportation users throughout our state, so that our state can continue to grow economically while promoting safe travel throughout the transportation network.

Sincerely,



Derrick Goudeau, PE
Project Manager
Derrick.Goudeau@stantec.com



Mike Bruce, PE
Principal-in-Charge
Mike.Bruce@stantec.com



Sections 1 - 13

Photo from the Tennessee Department of Transportation (TDOT) Statewide **TMC Upgrade**


DOTD FORM: 24-102


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 IN-ACCURATE 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 Intelligent Transportation Systems (ITS), System Design, Development, Integration and Verification Services
2.	Contract number(s) as shown in the advertisement	No. 4400029393
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	Stantec Consulting Services Inc. 
5.	Prime consultant license number (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	EF.0003506
6.	Prime consultant mailing address	1200 Brickyard Lane Suite 400, Baton Rouge, LA 70802
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1200 Brickyard Lane Suite 400, Baton Rouge, LA 70802
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Mike Bruce, PE, Senior Principal (225) 765-7400 mike.bruce@stantec.com
9.	Name title, phone number, and email address of the official with signing authority for this proposal	Mike Bruce, PE, Senior Principal (225) 765-7400 mike.bruce@stantec.com

10.	<p>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.</p>	<p>Signature (shall be the same person as #9):</p>  <hr/> <p>Signature above shall be the same person listed in Section 9:</p> <hr/> <p>Date: June 4, 2024</p>	
11.	<p>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.</p>	<p><u>Firms(s)</u> Vectura Consulting Services, LLC</p>	<p><u>Firm(s) %:</u> 2%</p>

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

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

The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Past Performance Evaluation Disciplines	% of Overall Contract	Stantec Consulting Services Inc. (Prime)	Intelligent Transportation Systems LLC	Skyline Technology Solutions, LLC	Vectura Consulting Services, LLC (DBE)	ASE Services, Inc.	Each Discipline must total to 100%
ITS	100%	75%	18%	3%	2%	2%	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%	75%	18%	3%	2%	2%	100%

13. **Firm Size:**

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

http://wwwsp.dotd.la.gov/Inside_DOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm Name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Stantec Consulting Services Inc.	Principal	2	2
Stantec Consulting Services Inc.	Supervisor - Eng	2	4
Stantec Consulting Services Inc.	Engineer	8	23
Stantec Consulting Services Inc.	Engineer - Other	2	37
Stantec Consulting Services Inc.	Engineer Intern	1	15
Stantec Consulting Services Inc.	Computer Analyst	5	20
Stantec Consulting Services Inc.	GIS Analyst	3	10
Stantec Consulting Services Inc.	Planner	5	16
Stantec Consulting Services Inc.	Senior Technician	1	7
Intelligent Transportation Systems LLC	Principal	3	3
Intelligent Transportation Systems LLC	Supervisor – Other	1	1
Intelligent Transportation Systems LLC	Engineer Intern	1	2
Intelligent Transportation Systems LLC	ITS Technician	5	5
Intelligent Transportation Systems LLC	Clerical	1	1
Skyline Technology Solutions, LLC	Computer Analyst	2	4
Vectura Consulting Services, LLC	Supervisor - Eng	2	2
Vectura Consulting Services, LLC	Engineer	2	3
Vectura Consulting Services, LLC	Engineer Intern	0	2
Vectura Consulting Services, LLC	Inspector	1	1
Vectura Consulting Services, LLC	Senior Technician	1	1
Vectura Consulting Services, LLC	Supervisor - Other	0	1
ASE Services, Inc.	Computer Analyst	1	1



Sections 14 - 16

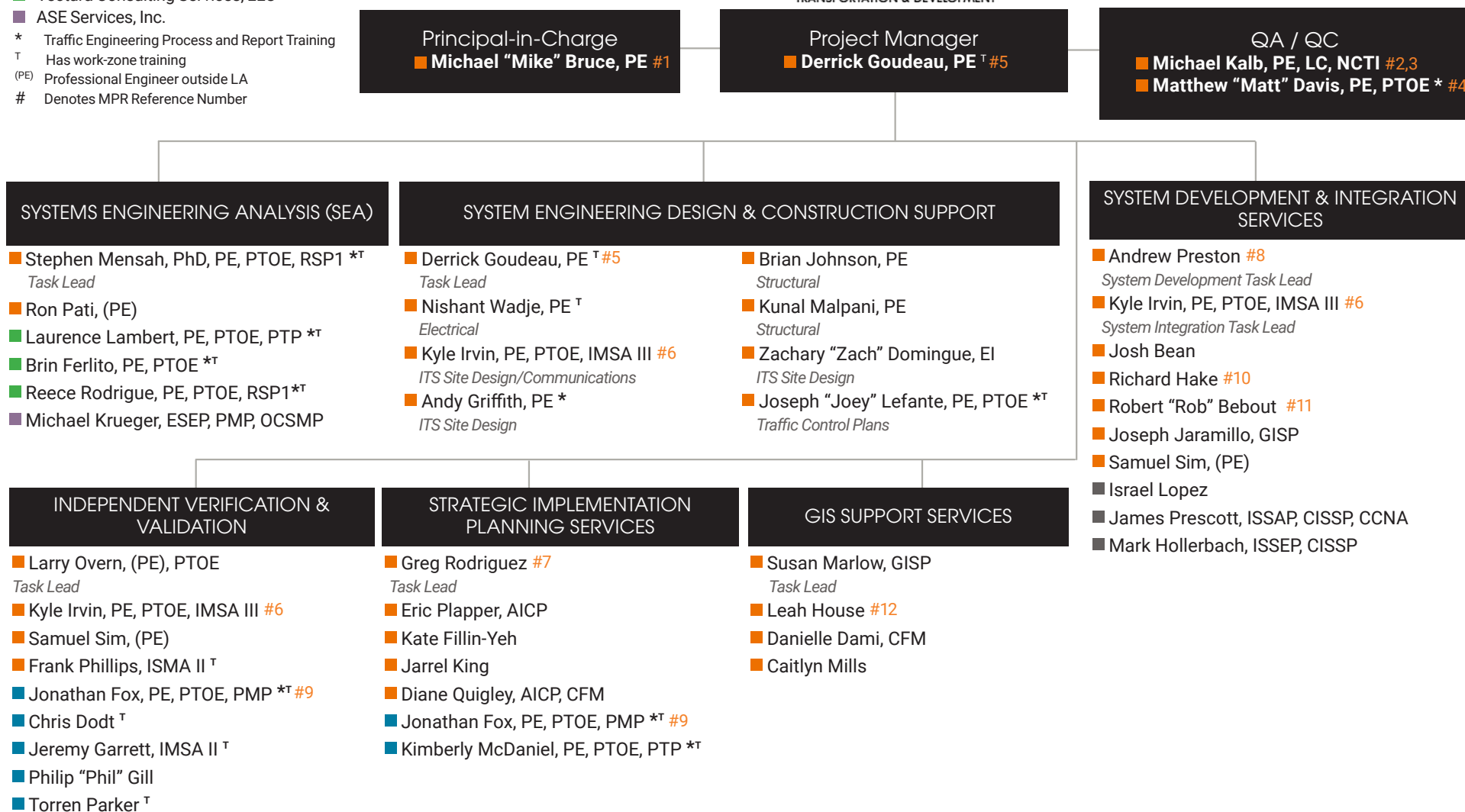
*Photo from **DOTD H.003047**
I-10/Pecue Interchange Phase III*

14. **Organizational Chart:**

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20. It is acceptable to use an 11x17 format for Section 14.













Legend

- Stantec Consulting Services Inc.
- Skyline
- Intelligent Transportation Systems LLC
- Vectura Consulting Services, LLC
- ASE Services, Inc.
- * Traffic Engineering Process and Report Training
- † Has work-zone training
- (PE) Professional Engineer outside LA
- # Denotes MPR Reference Number




15. **Minimum Personnel Requirements:**

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.



MPR No.	Personnel being used to meet the MPR <i>(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the Advertisement)</i>	Firm employed by	Type of license and discipline meeting MPR/ certification & number (EX: PE # - Civil)	State of license	License / certification expiration date
1.	Mike Bruce, PE	 Stantec	PE #20397 - Civil, Environmental	LA	9/30/2024
2.	Michael Kalb, PE, LC, NCTI	 Stantec	PE #38916 - Electrical and Computer	LA	9/30/2024
3.	Michael Kalb, PE, LC, NCTI	 Stantec	PE #38916 - Electrical and Computer	LA	9/30/2024
4.	Matt Davis, PE, PTOE	 Stantec	PE #38947 - Civil PTOE #3914	LA	09/30/2024 7/21/2024
5.	Derrick Goudeau, PE	 Stantec	PE #33288 - Electrical and Computer	LA	9/30/2025
6.	Kyle Irvin, PE, PTOE, IMSA III	 Stantec	PE #31680 - Civil	LA	9/30/2025
7.	Greg Rodriguez	 Stantec	N/A	N/A	N/A
8.	Andrew Preston	 Stantec	N/A	N/A	N/A
9.	Jonathan Fox, PE, PTOE, PMP	 ITS INTELLIGENT TRANSPORTATION SYSTEMS®	PE #33277 - Civil PTOE #2329	LA	9/30/2025 11/7/2025
10.	Richard Hake	 Stantec	N/A	N/A	N/A
11.	Rob Bebout	 Stantec	N/A	N/A	N/A
12.	Leah House	 Stantec	N/A	N/A	N/A

16. **Staff Experience:**



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Mike Bruce, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	39	
TITLE	Senior Principal	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	7	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1978 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 20397 LA 9/30/2024		
YEAR REGISTERED	1983	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	<p>Mike will serve as PRINCIPAL-IN-CHARGE for this contract. He has over 40 years of experience in the design and management of transportation related projects, including comprehensive expertise in innovative intersections, the preparation of construction PS&E packages for roadway and bridge projects, master plan projects, and feasibility studies for transportation networks. The complexity of his transportation experience ranges from minor urban street rehabilitation, to rural highways, urban interstate construction, including geometrics for many major interstate interchanges. Mike meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 1</p>			
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).			
2003 - Ongoing	<p>DOTD ITS DESIGN IDIQ CONTRACTS DOTD Statewide, LA Principal-in-Charge Mike has served as Principal-in-Charge on these retainer contracts. Oversaw all ITS efforts related to five separate ITS Design Retainers including State Projects #700-99-0304 in 2003, #700-99-0411 in 2007, #4400000679 in 2010, #4400010670 in 2017, #4400017922 in 2020, and #4400020058 in 2021.</p>			
06/20 - Ongoing	<p>MOVEBR TRANSPORTATION IMPROVEMENT PROGRAM (FIBER DEPLOYMENT) City of Baton Rouge Baton Rouge, LA Principal-in-Charge Mike was the Principal-in-Charge for this IDIQ contract which included 22 task orders for system engineering, design and technical support during construction.</p>			
03/18 - 09/18	<p>SIGNAL COMMUNICATIONS UPGRADE PHASE 1 LADOTD H.012749 Baton Rouge, LA Principal-in-Charge Mike oversaw this project that included the design and develop plans for providing network connectivity at 36 existing traffic signals in Baton Rouge and surrounding areas, focusing on major the arterial moving to and from Interstate 10 and Interstate 12. The deployment consisted of 10 miles of new fiber optic backbone with 20 traffic signal controller upgrades, 35 new fiber optic communication drops, and 4 wireless links.</p>			
01/13 - 07/16	<p>RETAINER CONTRACT FOR TRAFFIC ENGINEERING ROAD MANAGEMENT DOTD H.4400002748 Statewide, LA Principal-in-Charge Under this retainer, Stantec designed five roundabout projects, including: Cleo Road, US 79 Bypass at LA 9, LA 75 Roundabouts (Plaquemine), LA 86 & LA 320 Roundabout (New Iberia) and LA 447 / I-12 Interchange. Mike oversaw the contract and provided oversight during plan development.</p>			
06/11 - Ongoing	<p>LOUISIANA REGIONAL ITS ARCHITECTURES DOTD Statewide, LA Principal-in-Charge The Stantec team developed regional ITS architectures and ITS deployment plans for the Louisiana metropolitan areas including: Alexandria, Lake Charles, Shreveport, Monroe, Lafayette, Baton Rouge, Houma, New Orleans and Northshore. Stantec has been able to make recommendations with consensus from the stakeholder group that continues to put DOTD on a solid foundation for the deployment of ITS including novel services in the areas of shared mobility, preparing for connected vehicle deployments, a rubric to help determine for TMCs and virtual-TMCs planning design and implementation, and the impacts of other nascent technologies on operations. DOTD continues to deploy ITS based on the projects deployed in the architecture to meet the desired services of the public.</p>			
07/15 - Ongoing	<p>I-49 LAFAYETTE CONNECTOR DOTD Contract No. H.004273.5 Lafayette, LA Traffic Manager Mike is responsible for overseeing traffic tasks, coordinating with project management to provide traffic resources for the project. The project includes a comprehensive Vistro model of the Lafayette area, as well as additional analyses using TransCAD, VISSIM, and Sidra software packages. Project follows the Access Justification Request (AJR) guidelines established by DOTD and FHWA, and includes a VISSIM model of the core area calibrated to DOTD standards.</p>			





04/15 - Ongoing	LA 30 (NICHOLSON DRIVE) ROADWAY IMPROVEMENTS (LSU TO SOUTH BOULEVARD) DOTD Baton Rouge, LA Principal-in-Charge Mike oversees the Stantec team, including roadway, structural and traffic engineers assigned to the project. The project is part of a City-State road transfer agreement, and as part of this process, Stantec began with a study to identify feasible improvements for the corridor. In addition to the improvements identified along LA30, the I-10 exit ramp terminus will be relocated to facilitate traffic movements and be compatible with development plans along the corridor. Bids for construction were received 3/9/22, and Stantec is providing DOTD Construction Support services during the ongoing construction phase. This includes answering RFI's, reviewing shop drawings, and attending construction progress meetings as requested by DOTD.
05/13 - 03/19	ESSEN LANE WIDENING DOTD Baton Rouge, LA Principal-in-Charge Mike oversaw traffic signal plans for four intersections along Essen Lane that were impacted by the widening. Traffic signal plans consist of providing all new traffic signal equipment along with fiber optic communications between the traffic signals. Multiple site visits were held to ensure feasibility of traffic signal equipment locations and avoid interference with utilities. Plans were developed according to the latest MUTCD, DOTD and City of Baton Rouge Standards and Specifications. This project required coordination with Stantec's Roadway group, DOTD, and the City of Baton Rouge.
08/09 - Ongoing	I-49 INNER CITY CONNECTOR STAGE 0-1, STUDY AND IJR Northwest Louisiana Council of Governments Shreveport, LA Principal-in-Charge Mike serves as key advisor on this current project, with Stantec sub-consulting to Providence Engineering. The 3.5 mile route will provide the final nationwide link of I-49 by connecting the existing I-49/I-20 interchange to the existing I-49/I-220 interchange. Stantec is leading the traffic study and impacts effort along with development of an implementation plan and strategy for the Stage 0 Feasibility Study. Public involvement for the I-49 Inner-City Connector is critical because potential corridors run through a traditionally low-income neighborhood where previous efforts to provide this link were not well received. Stantec will also provide input to concept development and evaluation, development of environmental investigations, and ultimately the context sensitive design elements.
05/12 - 12/21	GOVERNMENT STREET ROAD DIET: STUDY THROUGH FINAL DESIGN DOTD Baton Rouge, LA Principal-in-Charge Mike oversaw quality assurance and examined improvements to increase safety and access management on Government Street between I-110 and Jefferson Highway. Stantec evaluated traffic data, developed conceptual alternatives, and accounted for the DOTD Complete Street Policy. The project rehabilitates and restripes existing roadway from a 4-lane section to a 3-lane section (Road Diet). Restriping the roadway allows the reclaimed pavement to be used to provide multi-modal and streetscape improvements. Bike lane improvements and vegetative median islands were added to the corridor and sidewalks were brought up to ADA compliance. This project includes a single-lane roundabout with bypass lanes designed for the Lobdell Avenue intersection, complete street improvements, access management and community enhancements. Stantec provided construction support services during construction, which was completed at the end of 2021.
04/01 - 04/02	LA 1 CONNECTOR DOTD West Baton Rouge, LA Principal-in-Charge Mike oversaw the initial corridor study and phase II corridor study used to identify a potential initial corridor that considers evacuation needs, economic impacts, and preliminary project costs.
10/15 - 04/16	CAPITAL REGION INDUSTRY FOR SUSTAINABLE INFRASTRUCTURE SOLUTIONS CRISIS Baton Rouge, LA Principal-in-Charge Mike led TransCAD modeling for 21 regional mega-projects to prioritize and determine their potential impact on the regional roadway network. This analysis compared annual hours saved across the regional network to project construction costs for each option. His team prepared conceptual construction costs based on Stantec's experience building large projects for DOTD and FHWA. Additional analysis on alternative funding sources for the proposed projects were performed, including tolling revenues and the potential impact of toll diversions on each project.
01/07 - Ongoing	BATON ROUGE LOOP IMPLEMENTATION PLAN AND TIER 1 EIS DOTD Contract No. 700-17-0212 Baton Rouge, LA Principal-in-Charge Mike oversees Stantec's responsibilities for this ongoing Stage 0 and Stage 1 effort. The project began with developing an Implementation Plan for the Capital Area Expressway Authority. This first phase was a one-year contract to determine possible corridors, impacts and a financial package for the construction of a loop through 5 parishes, including two crossings of the Mississippi River. Serves as Principal-In-Charge for engineering components including corridor selection, traffic improvement benefits, design criteria, typical sections, cost estimates and potential right-of-way required. This project involves extensive coordination with affected agencies including the 5 parishes, DOTD, FHWA, Coast Guard and US Army Corps of Engineers, as well as, public outreach and public participations.


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Derrick Goudeau, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	6	
TITLE	Senior ITS Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	15	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2003 Electrical Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 33288 LA 09/30/2025		
YEAR REGISTERED	2007	DISCIPLINE	Electrical and Computer Engineering	
Contract role(s) / brief description of responsibilities	<p>Derrick has over 21 years of project delivery experience for DOTD Intelligent Transportation Systems (ITS) deployments, from system engineering to design and final construction inspection. Derrick has managed and designed dozens of ITS projects deploying new fiber optic and microwave wireless networks as well as expanding existing networks. He is also well-versed in industry codes and standards. Derrick will serve as PROJECT MANAGER AND SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - ELECTRICAL/ COMMUNICATIONS for this contract. Derrick meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 5</p>			
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).			
07/20 - 08/22	I-10 WBR QUEUE WARNING SYSTEM DOTD H.013482 West Baton Rouge and Iberville Parishes, LA Engineer of Record Derrick was the lead engineer on Louisiana's first permanent active queue warning deployment which is located West Baton Rouge Parish. The project focuses on a rural 15-mile segment of I-10 and will deploy vehicle detection, CCTV camera, flashing beacons and Dynamic Message Signs. The project features new fiber optic network and 480-volt distributed power with generator backup to all device sites. This project majorly increases DOTD's detection, visual verification and traveler information abilities in the corridor and sets the stage for additional safety projects across the state.			
03/20 - 06/24	I-10: US 61 TO LAPLACE ITS DEPLOYMENT DOTD H.013710.3 Ascension, St. James, and St. John Parishes Engineer of Record Derrick was part of the Systems Engineering Analysis team and later served as the lead engineer on this 20-mile ITS network expansion. The design included seven (7) new CCTV camera poles (4 sites with photovoltaic systems). The project also took the opportunity to complete connections DOTD-owned fiber optic backbone and provides redundant links in their communications on this critical corridor for Louisiana. The plans included details for CCTV camera sites, pole foundation design, solar powered site design, and details for attaching fiber optic cabling to existing bridge structures. The project is currently in construction and Derrick is providing construction support services.			
09/18 - 06/20	I-110 ITS DEPLOYMENT DOTD H.013261 Baton Rouge, LA Engineer of Record Derrick participated in the System Engineering analysis and is responsible for expanding the ITS network in North Baton Rouge to fully cover the Interstate 110 corridor. This project aims to increase traffic incident monitoring coverage with 5 new CCTV camera sites and upgrades to 4 existing CCTV camera sites. The project will also provide network connectivity to 20 existing traffic signal cabinets and 3 existing drainage pumping stations along the 8-mile interstate segment. The communications for the project included three miles of new fiber optic backbone and connecting new and existing devices to existing fiber optic backbone. The project also included assisting LADOTD with obtaining a Railroad permit for installation of the new fiber. Derrick has provided System Engineering and Design services and is currently providing technical support during construction for this ITS deployment.			
08/18 - 05/19	ALEXANDRIA ITS PHASE 3 DOTD H.011505 Alexandria, LA Engineer of Record Derrick participated in the System Engineering analysis and led the effort to expand the ITS coverage to include 10 miles of US 71 and LA 28 in Alexandria, Louisiana. This deployment included 2 new arterial Dynamic Message Signs (DMS), 9 new CCTV camera sites, and fiber network connectivity to 16 existing traffic signal cabinets to allow LADOTD to monitor, identify and manage traffic incidents within the city. The communications system leveraged existing permitted fiber in LADOTD ROW and extended coverage with 3 miles of new LADOTD owned fiber backbone.			
03/18 - 09/18	SIGNAL COMMUNICATIONS UPGRADE PHASE 1 DOTD H.012749 Baton Rouge, LA Engineer of Record Derrick worked closely with DOTD to design and develop plans for providing network connectivity at 36 existing traffic signals in Baton Rouge and surrounding areas, focusing on major the arterial moving to and from Interstate 10 and Interstate 12. The deployment consisted of 10 miles of new fiber optic backbone with 20 traffic signal controller upgrades, 35 new fiber optic communication drops, and 4 wireless links.			

09/14 - 05/17	LAKE CHARLES ITS PHASE 2 DOTD H.010192 Lake Charles, LA Engineer of Record Responsible for design and technical support during construction for 13 new CCTV camera sites, two new arterial cantilever mount DMS sites, and connection of existing wireless sites (CCTV and DMS) into leased backbone fiber. New devices were integrated into the Statewide TMC until the regional TMC is completed.
03/22 - 06/24	ITS DESIGN IDIQ CONTRACT DOTD No. 4400020058 Statewide, LA Project Manager Derrick is the project manager for this IDIQ contract which includes 19 task orders for system engineering, design and technical support during construction.
02/18 - 10/22	ITS DESIGN IDIQ CONTRACT DOTD No. 4400010670 Statewide, LA Project Manager Derrick was the project manager for this IDIQ contract which included 22 task orders for system engineering, design and technical support during construction.
04/14 - 02/18	ITS DESIGN IDIQ CONTRACT DOTD No. 4400003994 Statewide, LA Project Manager Derrick was the project manager for this IDIQ contract which included nine task orders for system engineering, design and technical support during construction.
06/13 - 12/15	ITS DESIGN IDIQ CONTRACT DOTD No. 4400000688 Statewide, LA Project Manager Derrick was the project manager for this IDIQ contract which included eight task orders for design and technical support during construction.
04/19 - 06/21	RAMP METER UPGRADES DOTD H.012374 East Baton Rouge and Livingston Parishes, LA Lead ITS Engineer Derrick applied his ITS experience to test alternate vehicle detection technology as part of a meter upgrade study and design project. The intent of the project is to implement adaptive operation of the 10 existing westbound ramp meters along the Interstate 12 corridor to mitigate congestion. Derrick selected existing devices sites with optimal locations for detector pilot testing and coordinated with vendors to obtain test equipment. The pilot test includes side-fire and forward-fire radar detection to replace the existing video detection system. After completion of the pilot testing, Derrick provided quality review during the design effort to modify the existing sites to support adaptive operation.
02/18 - 10/19	SR-115 KNOXVILLE SMARTWAY EXPANSION (I-140 TO CHEROKEE TRAIL) TDOT Knoxville, TN Engineer of Record (Electrical) Derrick worked closely with the lead ITS engineer and roadway widening consultant to provide electrical service to Radar Detection System, CCTV Cameras, and Dynamic Message Signs sites. The project included close coordination with TDOT and the roadway contractors for this multi-phase roadway widening project to incorporate conduit and pullbox installations from on-going phases of construction.
03/18 - 12/19	SOUTHWEST REGION WIRELESS DESIGN ALDOT Mobile, AL Project Manager Derrick led the effort with ALDOT to develop a high level design report for deployment of a wireless communication infrastructure to support existing traffic signals and proposed ITS devices. The analysis initially included 1283 sites in Baldwin and Mobile counties. The ultimate design was pared down to optimize the coverage along the interstates I-10, I-65 and I-165 while maintaining 99.9% system reliability and providing the best value. The design was developed with a phased deployment in mind to allow priority coverage initially and expansion as construction funds were available.
01/17 - 04/17	BATON ROUGE HUBSITES EMERGENCY GENERATOR DOTD H.012748 Baton Rouge, LA Engineer of Record Derrick was responsible for designing permanent standby generators with automatic transfer systems to provide full backup power at 6 existing ITS hubsites in the Baton Rouge area. Two of the primary hubsites feature distributed power, allowing ITS devices sites to remain operational during a widespread power outage.
07/16 - 10/17	MONROE ITS PHASE 2 DOTD H.011513 Monroe, LA Engineer of Record Responsible for System Engineering Analysis and design for two new arterial cantilever mount DMS and 6 new CCTV camera sites and fiber optic communication via existing LADOTD owned fiber backbone. This phase of ITS deployment expanded the coverage to US 165 and allowed traffic monitoring and traveler information distribution from the Statewide TMC.


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Michael Kalb, PE, LC, NCTI	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	20	
TITLE	Principal, Senior Electrical Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	1	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2002 Electrical Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 38916 LA 9/30/2024		
YEAR REGISTERED	2014	DISCIPLINE	Electrical and Computer Engineering	
Contract role(s) / brief description of responsibilities	<p>Michael managed aviation, roadway, building, energy and recreational facility projects that have ranged in construction value from \$10,000 to more than \$30M. Michael's electrical engineering design experience includes the preparation of contract documents for a variety of intelligent transportation systems, energy, highway, local roadway, site development, recreational facility, parking facility and intersection improvement projects. Michael will serve as QA/QC on this contract. Michael meets the Minimum Personnel Requirements (MPRs) #2, 3.</p> 			
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).			
10/19 - 06/24	I-10: US 61 TO LAPLACE ITS DEPLOYMENT DOTD H.013710.3 Ascension, St. James, and St. John Parishes, LA Technical Advisor Technical Advisor responsible for overseeing the design and construction administration of a solar PV and battery storage system integrated into four remote CCTV sites for the LADOT. The project included a custom designed non-proprietary PV canopy and array design with a DC-DC coupled battery charging system. The systems and components were designed with bullet resistant enclosures given their remote location.			
01/16 - Ongoing	ROUTE 47 PAVEMENT RESTORATION PROJECT New Jersey DOT Camden Counties, NJ Lead Electrical Engineer Lead Electrical Engineer for this pavement restoration project. The electrical scope of work for this project includes traffic signal upgrades for twenty-seven intersections, including adaptive signal technologies for seven intersections, a CCTV camera and a new underground fiber optic distribution system.			
03/21 - Ongoing	RTC GO-MED PROGRAM Regional Transportation Commission of Southern Nevada Las Vegas, NV Electrical Engineer Electrical Engineer responsible for the design of 23 bus shelter upgrades including ten (10) smart transit shelters as part of an Automated Vehicle (AV) pilot project for the Regional Transportation Commission (RTC) of Southern Nevada around the Las Vegas Medical District (LVMD). The shelter upgrades included features such as Bluetooth beacons, notification lights, CCTV cameras, passenger counting trackers, smart trash cans, digital signs with interactive displays, A/V annunciators and impact detectors. The project also included the deployment of twenty pedestrian detection units. Thermal imaging and RADAR units were utilized, and Michael was responsible for designing a custom enclosure to house the power and communication equipment for the RADAR type units. 20 roadside units were also deployed to communicate with the AVs along their planned route.			
04/23 - Ongoing	RTC FAST FIBER HUB UPGRADE Regional Transportation Commission of Southern Nevada Las Vegas, NV Lead Electrical Engineer Lead Electrical Engineer and Engineer of Record for the design of a new ITS Mini Hut standard for the RTCSNV. The project is creating standard details and specifications for the mini huts. It also includes the design of seven locations where this new Hub Mini Hut will be installed to replace existing Hub Cabinets. Michael is responsible for the overall design and coordination of the design team consisting of architects, electrical engineers, mechanical engineers, and structural engineers.			
11/08 - 07/19	NJTA OPS NO. P3269, GARDEN STATE PARKWAY INTERCHANGE 125 IMPROVEMENTS Sayreville, NJ Lead Electrical Engineer Lead Electrical Engineer who was responsible for the design of the highway lighting, traffic signals and ITS/tolling systems at this incomplete interchange. The highway lighting design work involved new aluminum and steel light poles with LED luminaires for the roadway, toll plaza and tunnel lighting. The traffic signal designs included new steel traffic poles and equipment. The ITS/tolling designs included an All-Electronic Tolling ramp toll, with a toll plaza gantry and a toll equipment shelter. In addition, there were two VMS sign structures that were installed with integral traffic sensors and ITS cameras. CCTV cameras were also provided in order to support the E-ZPass toll collection and the parking lot's security. During the original design, Michael prepared a comparison design between the HPS lighting and the LED lighting in order to determine the construction cost impacts of the new technology.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Matthew (Matt) Davis, PE, PTOE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	14	
TITLE	Senior Associate, ITS Practice Lead	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2009 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 38947 LA 09/30/2024		
YEAR REGISTERED	2014	DISCIPLINE	Civil Engineering; PTOE No. 3914	
Contract role(s) / brief description of responsibilities	<p>As Stantec's ITS Practice Lead, Matt works with our teams across North America to plan for and implement innovative Intelligent Transportation Solutions. He is working collaboratively across disciplines to deliver transformational infrastructure projects that leverage technology to improve the safety and operations of our transportation networks. His background covers the complete project lifecycle where his understanding of operations and maintenance informs planning efforts that in turn informs analysis, design, and integration of new systems. Matt understands that the ITS solutions deployed in the field ultimately need to be maintainable and need to be both useful and intuitive for the Operators in the TMC in order to meet the goals of our clients. He has led the delivery of dozens of ITS projects across the country, overcoming a variety of challenges through unique and targeted solutions. Matt will serve as QA/QC on this contract. Matt meets the Minimum Personnel Requirements (MPRs) #4.</p> 			
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).			
04/21 - Ongoing	<p>ATCMTD GRANT PROJECT: AI-DSS TDOT Nashville, TN Project Manager and ITS Technical Lead</p> <p>USDOT awarded TDOT a grant to revolutionize integrated corridor management (ICM) decision support software (DSS). The project replaces the traditional traffic simulation model to provide decision support with artificial intelligence (AI), creating a transportable concept not tied to a specific corridor or location. TDOT selected Stantec to provide Project Management, Oversight, and Performance Evaluation Services on this innovative and collaborative project that is intertwined with multiple ongoing projects in the I-24 Corridor. Matt is responsible for managing this unique and innovative project, which includes extensive coordination with TDOT, SwRI, Vanderbilt, Contractors, ICM Staff, Transit Agencies, and Municipalities to keep the project on schedule and progressing. Matt has overseen the development of the Concept of Operations, System Requirements, and overall Systems Engineering Analysis for the project. Furthermore, Matt is responsible for coordinating and overseeing the project evaluation and data management conducted by the Stantec team. He has also overseen the software testing and implementation for both the upgrades to the SwRI-developed ATMS and the Vanderbilt-developed AI-DSS. Matt is also providing integration support of the LCS, VSL, RDS, CCTV, DMS, and VDS devices.</p>			
07/23 - Ongoing	<p>CAV WORKING GROUP SUPPORT DOTD Statewide, LA CAV Technical Resource</p> <p>Stantec is leading a Working Group across all DOTD divisions to identify connected automated vehicle (CAV) impacts and opportunities, track industry trends, determine policy needs, and direct DOTD's priorities around the impacts of CAVs. Matt is serving as a Technical Resource that provides education and facilitates discussion within the Working Group through the sharing of relevant news articles, sharing of industry trends, and facilitation of discussion panels with industry vendors from the CV and AV industries. Matt has also supported research efforts within the project for relevant grant opportunities and CAV policies of interest to DOTD.</p>			
09/16 - 05/17	<p>MOBILE ITS INVENTORY ALDOT Mobile, AL Project Manager</p> <p>Matt served as the project manager for the audit of the ALDOT Southwest Region's intelligent transportation system and provided recommendations for system improvements and future growth opportunities. The Stantec team performed field inventory of ALDOT's ITS along the I-10 and I-65 corridors, which included collecting GPS locations of all ITS devices (CCTV, DMS, RVD, and RWIS) as well as conduit and pullbox locations. The team also took photos of all equipment and tied them in with the GIS database. This included going into as much detail as opening up splice closures to document the fiber splicing throughout the network. Matt subsequently created a digital twin of the fiber optic network using a software tool called OSPIInSight. Matt led the delivery a GPS-located ArcGIS database along with the aforementioned OSPIInSight database as well as as-built Microstation files. From the field data that was collected, Matt and his team developed site-by-site recommendations for maintenance, upgrades, and enhancements within the agreed-upon time and budget. During the data collection, Matt coordinated with ALDOT to assist with the appropriate traffic control to perform all data collection work in a safe manner without incident. Matt presented the findings of the audit to ALDOT where areas of concern and areas of opportunity were identified.</p>			


12/21 - 03/23	<p>ATMS AND 511 SEA DOTD (H.014515) Statewide, LA Quality Control Reviewer</p> <p>Matt was responsible for quality control reviews of the systems engineering analysis to determine the requirements for a new ATMS to manage DOTD's ITS devices and provide incident management as well as the requirements for a new 511 system to provide traveler information. The SEA process included significant stakeholder engagement, TMC operator interviews about the existing systems, vendor demos, and concept of operations workshops. Matt utilized his experience an expertise operating and implementing ATMS and 511 systems to oversee the systems engineering analysis efforts. The results of the SEA are being utilized to develop detailed requirements and an RFP procurement document for a hybrid cloud/on-prem system.</p>
04/19 - 08/21	<p>TDOT ATMS DEPLOYMENT TDOT Statewide, TN Deputy Project Manager</p> <p>Matt was the deputy project manager for this critical project to implement TDOT's new advanced transportation management software that replaces a disjointed collection of different software packages with a single piece of integrated software. Matt was responsible for coordination of Stantec and subconsultant staff, stakeholder and project update meetings with a large variety of stakeholders from around the state, invoicing, and maintaining the project schedule. Furthermore, Matt oversaw the configuration and testing of the software that includes over 500 CCTV Cameras, nearly 200 Dynamic Message Signs, and almost 1,000 radar vehicle detectors. Matt also worked with Stantec's GIS team to develop over 100,000 location points for the Event Management database, which will help improve the efficiency of the TMC Operations. He also facilitated six training courses to train the TMC operations staff, IT staff, and external users. Matt worked closely with the project team to develop the software users manual, the version description document, and an updated TMC operations manual. Additionally, he worked with Stantec's database management team and TDOT's operations staff to develop dozens of report templates for the ATMS that allow users to pull relevant performance and data metrics from the database. Finally, Matt worked with TDOT to integrate the ATMS into the ATIS/511 system to provide incident information, CCTV camera feeds, and DMS messages to travelers.</p>
05/22 - 01/23	<p>ITS CONSULTANT TECHNICAL SUPPORT TDOT Nashville, TN ITS Technical Lead</p> <p>Matt provided on-site technical support as an augmentation of TDOT's Traffic Operations Division Staff. Matt worked from TDOT's offices two days per week to provide technical support on items such as ITS Design Reviews, Construction Support on TDOT's I-24 Smart Corridor Project, Development of a High-Level Cost Estimating Tool for ITS Deployments, Development of Construction Submittal Matrices, and Development of Standardized ITS Special Provisions. Matt provided as-needed technical support to TDOT throughout the duration of the work order and represented TDOT Traffic Operations Division's interests during project-related meetings.</p>
08/18 - 04/21	<p>NASHVILLE SMART MOBILITY ASSESSMENT GNRC Nashville, TN Lead ITS Engineer</p> <p>Matt assisted with developing an emerging transportation technologies framework that serves seven Nashville metropolitan counties. The assessment defined how the system can prepare for and thrive in an environment offering all modes and vehicles that are connected, shared, and even autonomous. He coordinated and conducted stakeholder meetings from each municipality on a county-by-county basis. Stakeholders completed a survey before each meeting and the results facilitated discussions and was compiled into a summary matrix of existing and planned smart mobility policy and infrastructure inventory. Matt also helped develop the regional vision for integrated technology and the memo of transportation-related technology needs. The project also met the goal of laying the groundwork to improve coordination and cooperation of technology assets and data sharing between adjacent municipalities to help the transportation systems operate as a holistic region, rather than as isolated segments. The results of this assessment are being brought to life through projects that Stantec is a part of along the I-24 SMART Corridor.</p>
03/18 - 09/18	<p>SIGNAL COMMUNICATIONS UPGRADE PHASE 1 DOTD Baton Rouge, LA Project Manager</p> <p>Stantec was tasked with designing the first signal communications upgrade project in Louisiana for DOTD, an early implementation of a TSMO strategy in the state. The project consisted of upgrading and connecting 35 existing traffic signal throughout the Baton Rouge area to fiber optic and wireless communications. Furthermore, CCTV cameras were added to select intersections to improve the Baton Rouge TMC's monitoring capabilities. Matt was responsible for managing the project in which the tight 3.5 month timeline to complete the design was met. He was also responsible for design support and plan review. Furthermore, as the project affects both Traffic and ITS equipment, Matt coordinated with the following sections within DOTD to ensure all needs were met with the new system: ITS, Headquarters Traffic Engineering, two District Traffic Engineers, and Traffic Signal Maintenance. The traffic signals are now integrated into DOTD's ATMS.now central software to allow remote timing changes and monitoring of the traffic signals facilitating proactive traffic management and adding a key tool to the TSMO Toolbox for DOTD.</p>

FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Stephen Mensah, PhD, PE, PTOE, RSP1	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	11	
TITLE	Associate, Traffic and ITS Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		PhD 2007 Civil Infrastructure Systems in Transportation; MS 2002 Civil Engineering; BS 1998 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 38591 LA 09/30/2024		
YEAR REGISTERED	2013	DISCIPLINE	Civil Engineering; PTOE #3960	
Contract role(s) / brief description of responsibilities	Stephen serves as a traffic engineer with expertise in traffic analysis, traffic safety, design and operations. Work experience includes highway safety analysis, traffic impact studies, systems engineering analysis, development of regional ITS architectures and traffic signal design. As the Lead Systems Analyst, he analyzes and evaluates systems and makes recommendations to clients for cost effective systems to meet their needs. He has previously served as a member of the TRB Committee for Application of Emerging Technologies to Design and Construction evaluating emerging technologies for transportation design and construction. Stephen reviews and critiques research papers, assesses the methodology and validity of research work and provides recommendations for publication. Stephen will serve as SYSTEMS ENGINEERING ANALYSIS (SEA) - TASK LEAD for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23 - Ongoing	I-10 BONNET CARRE ITS UPGRADES DOTD Contract H.015137 Lafayette, LA Systems Engineer Stephen was responsible for performing a project level SEA for the ITS deployment in LaPlace to Kenner, Louisiana involving stakeholders from DOTD HQ, District 02 & 62, MPO, and State Police. An SEA report, SET-IT files, and 30% plans will be delivered at the project completion.			
12/21 - 03/23	ATMS AND 511 SEA DOTD Contract H.014515 Statewide, LA Systems Engineer Stephen was responsible for the systems engineering analysis to determine the requirements for a new ATMS to manage DOTD's ITS devices and provide incident management as well as the requirements for a new 511 system to provide traveler information. The SEA process included significant stakeholder engagement, TMC operator interviews about the existing systems, vendor demos, and concept of operations workshops. Stephen drew on over 10 years of experience with developing architectures and SEA documents for DOTD to frame the end-user needs. The results of the SEA are being utilized to develop detailed requirements and an RFP procurement document for a hybrid cloud/on-prem system.			
02/19 - 09/19	I-10: US 61 TO LAPLACE ITS DOTD Contract H.013710 Statewide, LA Systems Engineer Stephen was responsible for performing a project level SEA for the ITS deployment in LaPlace, Louisiana involving stakeholders from DOTD HQ, Districts 61 & 62, MPO, and State Police. An SEA report, SET-IT files, and 30% plans were delivered at the project completion.			
2021 - Ongoing	ATCMTD GRANT PROJECT FOR ICM DSS TDOT Nashville, TN System Engineering Analyst TDOT was awarded an ATCMTD Grant from USDOT with a goal of deploying an integrated corridor management (ICM) decision support software (DSS). Currently, ICM DSS is primarily accomplished utilizing a traffic simulation model specific to the corridor. This project aims to replace the traffic simulation model with artificial intelligence, creating a proof of concept that can be duplicated in other corridors around the United States. Stephen contributed to development of the Data Management Plan, Project Evaluation Plan to help USDOT and TDOT analyze evaluate the benefits of the AI-DSS in ICM applications. Stephen is currently using existing operations data to baseline various performance metrics that will then be used to evaluate the performance of various operation strategies that include variable speed limit signs, lane control signals and surface street signal operations and timing.			
10/12 - 02/16	US 90Z NEW ORLEANS HOSPITALITY ZONE DOTD New Orleans, LA TSMO Engineer Stephen performed safety analysis to determine the abnormal crash zones and overrepresented crashes in the crash data for the project scope to improve mobility and safety in downtown NOLA by deploying ITS to manage traffic. Analysis yielded inferences on the causative issues for crashes in the corridor and the countermeasures required to mitigate them. Analysis outcomes informed the TMP required to manage traffic during construction and successfully deploy ITS devices to enhance mobility and safety. An effective TMP is required to ensure road user and construction worker safety and reduce client exposure to litigation from crashes.			

03/14 - 06/14	BATON ROUGE ITS PHASE 3 SEA DOTD CONTRACT NO. H.006831 Baton Rouge, LA Systems Engineering Analyst Ramps on I-12 were proposed to address safety and operational issues in the North Shore area near Covington. Stephen performed an analysis of the crashes in the corridor to identify overrepresented crashes and abnormal crash locations for mitigation. Stephen also developed the systems engineering analysis for potential deployment of the ramp meters for operational improvements in the area. Stephen analyzed various ramp metering techniques and their applicability to this corridor giving the pros and cons of each approach.
08/14 - 08/15	I-12 NORTH SHORE RAMP METER SEA DOTD Covington, LA Systems Analyst Performed the requisite system engineering analysis for communications, detection (Bluetooth) and travel time message signs to guide the successful implementation of this project. The analyses provided the performance requirements to meet user needs for mobility and safety. This project will save users time, mitigate congestion especially on the Mississippi River Bridge, and enhance safety in the corridors.
02/18 - 08/20	ALEXANDRIA ITS PHASE 3 DOTD CONTRACT NO. 011505 Alexandria, LA System Engineering Analyst Stephen performed the system engineering analysis to guide the successful implementation of the project by reducing risk and ensuring user needs are met to improve mobility and safety on the US 71 and LA 28 corridors in Alexandria, Louisiana. The activities involved traffic signal communications upgrades, traffic monitoring, traveler information and communications. Stephen coordinated with stakeholders to elicit needs, develop the concept of operations and the requirements that had to be met during design to ensure stakeholder needs for operations and maintenance are met. This project will save users time and ensure safer corridors for operation. During emergencies such as fog or icy conditions on I-49, this corridor will be a more resilient detour route to help mitigate congestion.
06/11 - Ongoing	LOUISIANA REGIONAL ITS ARCHITECTURES DOTD Statewide, LA Project Manager Developed regional architecture and ITS deployment plans for several metro areas, including Shreveport, Lafayette, New Orleans and Baton Rouge, based on the National ITS Architecture. These regional architectures are important and help metro areas manage traffic and ensure public safety on highway system which directly impacts socioeconomic activities in these areas. Organized and participated in stakeholder meetings/interviews to define project scope and developed planning documents to guide ITS developments for five to ten year time frame. Developed the planning document by identifying current and emerging issues in transportation mobility and safety for the metro areas, proposed systems and requirements to address the issues, developed communication data flow diagrams using Turbo Architecture. Used a structured approach to develop the regional ITS architectures so that the systems implemented are relevant and meet user needs, resilient and adaptable. Stephen is currently developing the Statewide ITS architecture document which will guide DOTD ITS planning for 10 years.
03/18 - 01/19	TENNESSEE STATEWIDE ITS ARCHITECTURE TDOT Statewide, TN Traffic and ITS Engineer Performed gap analysis of existing ITS deployments and assessed opportunities for enhancements. Coordinated and participated in public meetings with diverse stakeholder groups in Tennessee to determine needs in transportation mobility and safety, and proposed TSMO strategies based on existing infrastructure and emerging technologies in ITS. Used the Regional Architecture Development for Intelligent Transportation (RAD-IT) developed by FHWA to develop system requirements, communications flow diagrams, and applicable standards to guide deployment of devices and ensure consistency with the Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT). The statewide planning document detailed needs and requirements to guide ITS developments into the future. Used a structured approach to develop the ITS architectures so the systems implemented were relevant, resilient, and adaptable, and met user needs. This document has gone on to inform the Statewide TSMO Program Plan.
03/16 - 04/16	DOTD TMC STANDARD OPERATING PROCEDURE DOTD CONTRACT NO. 4400001465 Baton Rouge, LA System Engineering Analyst Stephen reviewed and updated the Standard Operating Procedure document to guide TMC Operations for the Louisiana Department of Transportation and Development. This included guidance on traffic monitoring and management, incident management, traveler information and emergency operations procedures. This document defined the roles and responsibilities of TMC operations staff to achieve management objectives especially in the use of specific systems or tools for management of traffic, coordination with first responders and other stakeholders. The document also covered responsibilities of all staff for a safe work environment at the TMC.


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Ron Pati, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	Principal, Senior Systems Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	32	
DEGREE(S) / YEARS / SPECIALIZATION		MS 1987 Civil Engineering; BS 1984 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 44097 FL* 02/28/2025		
YEAR REGISTERED	1991	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	<p>Ron is a Senior Systems Engineer and technical expert with over 36 years of experience in systems engineering, ITS design, specifications development, communications design, and implementation/integration support for several types of advanced traffic control systems, including Connected and Autonomous Vehicle (CAV). He has worked extensively in the areas of Advanced Traffic Management Systems (ATMS) covering both freeways and arterials, Advanced Traveler Information Systems (ATIS), Electronic Toll Collection (ETC), and Tunnel Management Systems (TMS). Over the last decade, he worked on several of the Florida Governor's top 10 highest profile projects such as I-4 Ultimate/Express Lanes (\$2.3 Billion P3) - serving as the ITS EOR, I-95 Overland Bridge Design-Build (ITS EOR), and as an ITS Specialist on the Port of Miami Tunnel (\$1 Billion - P3). Nationally, he participated in Tennessee SmartWays, South Dakota I-90 ATMS/VSL design, Colorado Truck Safety Information Systems and the GoMed CAV Las Vegas, NV. He has developed or overseen ITS design for more than 600 roadway miles with project specific requirements such as specifications, systems engineering, communications, system integration and testing covering many types of projects throughout the country. Ron will provide SYSTEMS ENGINEERING ANALYSIS (SEA) for this contract.</p>			
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).			
06/20 - Ongoing	<p>RIVER ROAD (SR 777) FROM NORTH OF US 41 TO SOUTH OF I-75 DESIGN-BUILD FDOT District 1 Sarasota County, FL ITS Task Manager / EOR</p> <p>Ron led the ITS design with electrical and communication systems, specifications, system verification plan/RTVM including coordination with prime, ITS Contractor and other subconsultants. He submitted the Released for Construction and several plan revisions including traffic signals/devices connected using a 96 STR fiber backbone communications along with variety of ITS devices such as intersection MVDS/CCTV cameras, Bluetooth travel time, and Blank Out Signs, placed ahead of the key intersection approaches to inform about I-75 incidents in advance to allow for traffic diversions. Ron reviewed the post design contractor submittals and will be assisting in system testing and integration. This system will be integrated and operated from the FDOT District 1 Satellite TMC.</p>			
02/19 - 12/21	<p>TMC SOFTWARE UPGRADE, ITS ON-CALL SERVICES TDOT Statewide, TN ITS Specialist</p> <p>Ron served as an ITS Specialist in this contract overseeing several key tasks such as systems engineering deployment readiness monitoring, interface control documents and testing and integration plans. He participated in system testing and system, "go-live" activities as well as refinement of the requirement traceability verifications. Key features included implementing a map-based user interface, database and decision support system in the form of automated incident response plan generation. Software deployed was named "SmartWays" and included deployment of the same in four TMCs, software development, testing, implementation, operator training and operations support.</p>			
01/21 - 01/23	<p>AUTOMATED CIRCULATOR AND CONNECTED PEDESTRIAN SAFETY PROGRAM (GOMED) DESIGN Regional Transportation Commission (RTC) of Southern Nevada and City of Las Vegas (CLV) Las Vegas, NV ITS Lead</p> <p>Ron led the complex specifications package development that included AV Transit circulator for ecofriendly and sustainable travel by using autonomous transit and technological enhancement to pedestrian and bike safety. He researched several types of CAV technologies, pedestrian detection and safety enhancements, and extensive data sharing and analytics allowing for dissemination of real time and effective traveler information. An integration with the RTC Datahub platform was designed for collecting and disseminating information across the project subsystems. Key components and technologies to be deployed under the GoMed program include: Automated Transit Vehicles, Smart Transit Shelters, Pedestrian Detection, Connected Vehicles, Traveler Information and RTC Datahub.</p>			
06/14 - 08/17	<p>I-4 ULTIMATE/EXPRESS LANES ITS DESIGN P3, FIN # 432193-52-01, CONTRACT #C9810 FDOT District 5 Orlando, FL ITS Project Manager / EOR</p> <p>Ron coordinated the Area 4 (8-mile section) ITS express lanes design/post-design support for the \$2.3 billion project. His involvement in this complex project started from multi-year proposal level ITS plan development, quantity, and cost estimates, to early works package followed by final plans and specifications. Ron developed the systems engineering plan deliverables such as Risk Management and Data Security Plans, Corridor Master Plan, and Maintenance of Communications, reviewed the Systems Integration Plan. He developed an innovative design of permanent High Occupancy Toll express lanes comprising of numerous Layer 3 based secured hubs integrating devices namely CCTV cameras, MVDS, pedestrian tunnel occupancy, full DMS, Lane Status and Toll rate DMS, ADMS and ramp metering infrastructure.</p>			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Nishant Wadje, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	Electrical Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2016 Electrical Engineering; BS 2012 Electrical Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 45837 LA 03/31/2025		
YEAR REGISTERED	2021	DISCIPLINE	Civil Engineering (Transportation)	
Contract role(s) / brief description of responsibilities	Nishant has nine years of experience in electrical engineering, specifically electrical and communication design and power engineering. He is responsible for the engineering calculations, Systems Engineering Analysis (SEA) report, design and development of plans for Intelligent Transportation Systems (ITS), roadway lighting and electrical power engineering projects. He is experienced in engineering calculations of low and medium voltage electrical engineering projects. He is also well versed in design, modeling and analysis of power systems using ETAP and SKM Power tools. His other areas of expertise include research on electrical design codes and design options, data collection and report preparation. He is well versed in industry codes and standard, including the 2020 NEC (NFPA 70) and NFPA 70E. Nishant will provide SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - ELECTRICAL on this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23 - Ongoing	I-10 BONNET CARRE ITS UPGRADES DOTD H.015137.1 LA Electrical Engineer Nishant is responsible to develop a Systems Engineering Analysis (SEA) report to improve mobility and safety in the I-10 and I-310 corridors by improving the services delivered using intelligent transportation systems (ITS). The project limits are I-10 between the I-10 Laplace Weigh Station to Williams Blvd. and I-310 between I-10 to US-61.			
06/23 - Ongoing	MONROE PHASE 3 SEA DOTD H.011505.1 Monroe, LA Electrical Engineer Nishant is responsible to develop a Systems Engineering Analysis (SEA) report for the deployment of Intelligent Transportation Systems (ITS) in the US 80 corridor in Monroe, Louisiana, to improve mobility and safety.			
07/20 - 08/22	I-10 WBR QUEUE WARNING SYSTEM DOTD H.013482 West Baton Rouge and Iberville Parishes, LA Electrical Engineer Nishant was Electrical Engineer on Louisiana's first permanent active queue warning deployment which is located West Baton Rouge Parish. The project focuses on a rural 15-mile segment of I-10 and will deploy vehicle detection, CCTV camera, flashing beacons and Dynamic Message Signs. The project features new fiber optic communication and 480-volt distributed power with generator backup to all device sites. This project majorly increases DOTD's detection, visual verification and traveler information abilities in the corridor and sets the stage for additional safety projects across the state. The project is currently in construction and Nishant is providing construction support services.			
03/20 - 06/24	I-10: US 61 TO LAPLACE ITS DEPLOYMENT DOTD H.013710.3 Ascension, St. James, and St. John Parishes, LA Electrical Engineer Nishant was Electrical Engineer on this 20-mile rural project segment focused on I-10 from the US-61 interchange to the US-51/I-55 interchange which includes 4 miles of bridge structure and very little access to utility power. The design included seven new CCTV camera poles (4 sites with photovoltaic systems), retrofit of one CCTV camera pole and interface with one existing DMS site near I-10/US-61. The project also took the opportunity to complete connections DOTD-owned fiber optic backbone and provides redundant links in their communications on this critical corridor for Louisiana. Stantec was responsible for preparing final plans, opinion of probable construction cost, and transportation management plan to extend the existing Baton Rouge ITS along I-10 from the I-10/US-61 interchange to the LaPlace Radio Tower. The plans included details for CCTV camera sites, pole foundation design, solar powered site design, and details for attaching fiber optic cabling to existing bridge structures. The project is currently in construction and Nishant is providing construction support services.			
07/22 - Ongoing	SYSTEMS ENGINEERING ANALYSIS AND TRAFFIC MANAGEMENT CENTER (TMC) DESIGN SERVICES Norman, OK Electrical Engineer Nishant is working as an Electrical Engineer on this project and assisting lead engineer on estimating the power loads and equipment sizing for the TMC system. He is also assisting lead engineer in coordination with the Norman TMC building renovation team by the city architect to evaluate the electrical infrastructure for the new iTOC systems.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Kyle Irvin, PE, PTOE, IMSA-III	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	7	
TITLE	Principal, Senior ITS/Systems Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	28	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1987 Civil Engineering; MS 2004 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 31680 LA 09/30/2025		
YEAR REGISTERED	2005	DISCIPLINE	Civil Engineering; PTOE #451	
Contract role(s) / brief description of responsibilities	<p>Kyle has over 35 years of extensive ITS and Transportation operations knowledge and experience along with hands on ITS/Systems Integration field deployment including CAV technologies. This includes planning, ITS design, development, deployment, operations, integration and maintenance ranging from traffic signal design and system coordination projects, to ITS system design projects, managed toll lanes, traffic management center operations and design, to ATMS systems software deployment and integration. Kyle is also an International Municipal Signal Association (IMSA) Level III Certified Senior Traffic Signal Technician. Kyle will provide SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - ITS SITE DESIGN/COMMUNICATIONS and SYSTEM INTEGRATION TASK LEAD and INDEPENDENT VERIFICATION & VALIDATION on this contract. Kyle meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 6</p>			
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).			
04/19 - 06/23	<p>I-90 EXIT 32 TO EXIT 40 CORRIDOR STUDY AND DESIGN SDDOT Sturgis, SD ITS Project Engineer / EOR</p> <p>Kyle was the Engineer of Record and lead ITS design engineer for this corridor study. This project documented and made recommendations for all Legacy and Planned ITS equipment, reviewed current incident management strategies, provided a recommendation to update the Statewide ITS Architecture, prepared a Corridor ITS Concept of Operations document, and make recommendations for ITS strategies to be incorporated in the design phase, which was subsequently awarded to Stantec and completed in the summer of 2023. The design consisted of 20 miles of fiber optic trunkline, 16 CCTV, 4 DMS, 6 Data Stations, 3 Environmental Sensor stations, and Variable Speed limits. Communications connections were also designed for redundant fiber loops with the SDHP Port of Entry / WIM facility located within the corridor.</p>			
03/18 - 03/21	<p>STATEWIDE ATMS UPGRADE, SYSTEMS ENGINEERING ANALYSIS & SYSTEMS INTEGRATION TDOT Nashville, TN ITS Systems Engineer</p> <p>Kyle provided ITS Systems Engineering support during the SEA phase of the project for the development of the Concept of Operations, Functional Requirements, and the Requirements Traceability Verification Matrix. During the ATMS deployment phase Kyle was the lead Systems Integrator working with the ATMS software provider to deploy the new software in each of the TMC's and integrate all of the legacy field devices and systems into the new software.</p>			
02/20 - Ongoing	<p>SYSTEMS ENGINEERING ANALYSIS FOR A TRAFFIC MANAGEMENT CENTER (TMC) City of Norman Norman, OK Systems Engineer / EOR</p> <p>Stantec was chosen to perform the Systems Engineering Analysis (Phase 1) and the TMC design (Phase 2) for this project. As part of the SEA a baseline data inventory and analysis was prepared followed by the Concept Exploration, Concept of Operations reports, and two virtual user needs workshops during COVID. The Regional ITS Architecture was reviewed and updated using RAD-IT. As a part of Phase 1 a TMC staffing analysis and operations needs study was prepared for the Traffic Control Division. Phase 2 is currently underway with the design of the TMC beginning. Three separate schematics / location layouts within the EOC and Traffic Maintenance facility were evaluated along with a timeline for development of each. An interim solution was chosen to provide a semi-portable integrated Traffic Operations Console (iTOC) TMC workstation that could be operated by 2 operators and provide all the functionality of a full TMC with video wall while the permanent locations are being constructed and modified as part of the City's Capital program. Kyle provided QA for the SEA phase of the project and is the Engineer of Record for the TMC design portion now underway.</p>			
02/22 - 09/22	<p>GLOBAL AUTONOMOUS VEHICLE ENGINEERING CONTROL SYSTEM AND FLEET MANAGEMENT DESIGN TOOLS Confidential Client Systems Design Engineer</p> <p>Kyle was a systems engineer working to develop systems engineering requirements for design tools to develop and specify a control system for deploying fleet(s) of autonomous vehicles in fully controlled operational domains (non-mixed traffic). The work included the development of the functional requirements for a tool-based "Design Kit" for the development of AV fleets in near instantaneous time. The tools are expected to be deployed by the client globally within a unique non-transportation environment.</p>			





01/21 - Ongoing	<p>US 550 / US 160 HIGHWAY RELOCATION DESIGN BUILD ITS & WEATHER MONITORING CDOT Durango, CO ITS Design Engineer</p> <p>Kyle is the ITS Design Engineer for the 10-mile roadway US 550 relocation design build project that includes design of 7-CCTV cameras, 1-MVDS, 1-Dynamic Message Sign, 1-Radar Vehicle Detector Station, 2-Roadway Weather Information Systems. These devices will all be connected by a fiber optic trunk line that is being designed with this project and all devices will ultimately be integrated with the CDOT ATMS system located in Golden, CO.</p>
06/21 - 12/22	<p>TRUCK SAFETY IMPROVEMENT SYSTEM CDOT Freight Office Denver, CO Systems Engineer / Integrator</p> <p>Kyle provided ITS Systems Engineering support during the Systems Engineering Analysis(SEA) phase of the project. The goal of the project was to take static broadcast roadside messaging that is currently available and develop and deliver a targeted safety / warning message to a specific CMV at a user defined location(s) along the corridor in Near Real Time utilizing a combination of existing ITS / Roadway infrastructure with the addition of few additional sensors and roadside edge computing. This involved meeting with stakeholders including: CDOT ITS, CDOT Freight, EMJT staff, Colorado Motor Carriers Association, Colorado State Patrol, IRD, and Drivewyze. This proposed concept was to utilize as much of the existing equipment as possible along the heavily instrumented corridor including the Port of Entry / Electronic Screening / WIM stations on I-70, Automated License Plate Readers, Electronic Credentialing systems, Road Side Units(RSU), and in-cab Electronic Logging Devices (ELDs). This first phase produced a SEA containing the Concept Exploration, Concept of Operations, High Level Functional Requirements, and High Level (30%) design plans for the westbound I-70 corridor from Dumont, through the Eisenhower Tunnel, to Silverthorne, Colorado. The next phase of the project is to develop the proof of concept by working with CDOT Freight, CSP, CMCA volunteers, Drivewyze, and Panasonic (RSU vendor) to determine the best way to accomplish this by utilizing the existing ELD Data Elements Dictionary and the FHWA work done on Work Zone Data Exchange (WZDz) in Maricopa County. The goal would be to reuse similar defined roadway / messaging elements from the smart work zone into a smart safety messaging based upon the ELD dictionary to push the specific message(s) into the specific CMVs at user defined locations along the roadway network.</p>
04/21 - 04/23	<p>LAS VEGAS MEDICAL DISTRICT AUTOMATED CIRCULATOR AND CONNECTED PEDESTRIAN SAFETY PROGRAM USDOT (GoMED Program) Las Vegas, NV Systems Engineer / QA</p> <p>The USDOT awarded a BUILD grant for the Las Vegas Medical District Automated Circulator and Connected Pedestrian Safety Program (GoMED). This project involved the design of the four autonomous vehicle shuttles (AVs), the associated 23 AV smart shelters, 6 transit wayfinding kiosks, pedestrian detection sensors at 20 intersections (both signalized and unsignalized where RRFBs were designed, and installation of 20 DSRC roadside units at the enhanced pedestrian detection intersections. Kyle provided field engineering for the project initiation and traffic signal evaluations, AV shuttle route visual survey, and proposed shelter locations.</p>
08/16 - 03/19	<p>SHY 288 MANAGED LANES DESIGN BUILD ITS & TOLLING TXDOT Houston, TX Task Manager - ITS/Signal Design and EOR for CEI during installation</p> <p>Kyle served as the task manager for the design of the SH 288 Managed Lanes project that added managed tolling lanes to 10 miles of SH 288 between US 59 and Beltway 8 in Houston. The ITS and Tolling system design included an ITS communications backbone, HUB buildings, DMS, CCTVs, Blue Tooth Travel Time Readers, weather stations, microwave vehicle detection, tolling zones, and traffic signals. This project utilized a fast-tracked design that required extensive coordination with all disciplines on the project. As a part of the construction effort, existing ITS devices and the existing fiber communications backbone had to be maintained during construction until the new backbone was installed, tested and accepted.</p>
12/10 - 09/11	<p>HUDSON VALLEY TRAFFIC MANAGEMENT CENTER NYSDOT New York, NY ITS Field Systems Engineer</p> <p>Kyle provided emergency field engineering maintenance support as necessary for the day-to-day operations of the HVTMC NYSDOT District 8 while staff was out on medical leave. He provided ITS Field device troubleshooting and maintenance as well as responding to trouble ticket calls along with any other tasks as assigned by NYSDOT staff.</p>



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Andy Griffith, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	10	
TITLE	Traffic Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2013 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 42906 LA 03/31/2025		
YEAR REGISTERED	2018	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Andy has been involved with several large and small transportation projects along with a large design-build pump station project. Most of his experience in transportation projects has dealt with traffic, transit, and intelligent transportation systems (ITS). Andy is familiar with several industry software programs, including AutoCAD, MicroStation, ProjectWise, SpecsIntact, Vissim, and Vistro. Andy will provide SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - ITS SITE DESIGN for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/19 - 05/19	PORT ALLEN CANAL BRIDGE ITS DOTD Contract No. H.001234 Port Allen, LA Plan Developer Andy was responsible for detailing ITS plans for new and existing ITS devices along LA-1 in conjunction with the construction of the new Port Allen Canal bridge.			
02/18 - 06/18	SIGNAL COMMUNICATIONS UPGRADE PHASE 1 DOTD Contract No. H.012749 Baton Rouge, LA ITS Engineer Andy was responsible for detailing ITS plans for a network that included 36 traffic signal & ITS cabinets in the Baton Rouge, Louisiana area. Stantec provided construction support services for this project. Construction ended December 2020.			
08/18 - 06/19	ALEXANDRIA ITS PHASE 3 DESIGN AND IMPLEMENTATION DOTD Contract No. H.011505 Alexandria, LA ITS Engineer Andy was responsible for detailing ITS plans for a network that included over 25 traffic signal & ITS cabinets in the Alexandria, Louisiana area. Construction for this project is ongoing and Stantec is providing construction support services.			
09/20 - 04/21	I-75 KNOXVILLE SMARTWAY ITS EXPANSION TDOT Knoxville, TN Plan Developer Andy was responsible for detailing ITS plans for a network that covered approximately 26 miles of the I-75 SmartWay Extension.			
08/08-03/11	I-12 ITS RAMP METER UPDATES DOTD Baton Rouge, LA Plan Developer Andy was responsible for detailing ITS plans for 17 ramp meter sites across 14 miles of I-12, between Baton Rouge, LA and Walker, LA.			
01/15 - 07/16	TRAMLINKBR: ENVIRONMENTAL AND CONCEPTUAL ENGINEERING PHASE City of Baton Rouge Baton Rouge, LA Plan Developer Andy created a detailed VISSIM model for visualization of tram operations involving automobiles, trams (light rail vehicles), and pedestrians. Andy also combined existing data of utility locations from the City of Baton Rouge and utility companies with new survey data to analyze potential conflicts concerning both buried and aboveground utilities.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Brian Johnson, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	19	
TITLE	Principal, Bridge Division Leader	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2000 Civil Engineering; BS 1999 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 31273 LA 9/30/2024		
YEAR REGISTERED	2004	DISCIPLINE	Civil Engineering; NBIS Certified Team Leader	
Contract role(s) / brief description of responsibilities	Brian brings over 24 years of structural engineering experience. His primary expertise lies in analysis, design, rating, inspection, and rehabilitation of bridges. Brian has managed bridge projects with a variety of structure types such as prestressed concrete girders, steel truss vertical lift bridges, long span steel trusses, horizontally curved steel plate girders, concrete box culverts, and retaining walls. He has overseen several NSBI bridge inspection projects and been involved in several hydraulic studies for bridge replacement projects. He will be responsible for design of structural components of ITS projects. Brian will serve as SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - STRUCTURAL for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc.			
07/20 - 08/21	I-10 WBR QUEUE WARNING DOTD H.013482 West Baton Rouge, LA Structural Manager Brian provided oversight and Quality Assurance reviews for design and details of ITS foundation and a DMS support structure, platform and access ladder.			
03/20 - 04/21	I-10: US 61 TO LAPLACE ITS DEPLOYMENT DOTD H.013710 LaPlace, LA Structural Manager Brian provided oversight and Quality Assurance reviews for design and details of ITS foundations, a solar panel structure, and bridge mounted conduit and junction boxes supports.			
09/19 - 04/20	I-110 ITS DEPLOYMENT DOTD H.013261 Baton Rouge, LA Structural Manager Brian provided oversight and Quality Assurance reviews for design and details of ITS foundation.			
09/18 - 05/19	ALEXANDRIA ITS PHASE 3 DOTD H.011505 Alexandria, LA Structural Manager Brian provided oversight for the structural and foundation design of two post mounted Dynamic Message Signs (DMS) and foundation design of several CCTV camera poles along US 71 and LA 28 corridors as part of expanding ITS coverage in Alexandria, Louisiana. Completion of the project will allow DOTD to remotely monitor the corridors from the Statewide TMC in Baton Rouge.			
10/12 - 02/16	HOSPITALITY ZONE US 90Z IMPROVEMENTS DOTD H.010189 New Orleans, LA Structural Lead This project consisted of installing new ramp meters on six different on-ramps along US 90Z in New Orleans, LA. Developed a solution to minimize traffic impacts by extending the existing bent caps to support the new ramp meters. Worked with DOTD to determine an exact location for each meter and, in turn, locating as-built drawings for that particular bent cap. Each cap was analyzed support the ramp meter and appropriate wind load for a hurricane region.			
06/13 - 10/15	SUNSHINE BRIDGE ITS DEPLOYMENT DOTD H.010138 Sorrento, LA Structural Lead Responsibilities included leading the design and plan development efforts of drilled shaft foundations for two camera pole heights (60-ft and 90-ft) to assist the DOTD to meet their goal to provide reliable surveillance and fiber optic communications across all Mississippi River Bridge Crossings. Design plans, specifications and opinion of probable costs were completed within 46 calendar days after NTP in order to meet the ITS Section expectation of making the November 2013 deadline.			
07/13 - 08/16	BATON ROUGE ITS PHASE 3 DOTD H.006831 Baton Rouge, LA Structural Lead Brian and his team designed reinforced concrete foundations and steel structures for 5 DMS sites and 9 CCTV sites along with the foundation and building specifications for 1 HUB site in the Baton Rouge Metro region. He used his prior experience and understanding of DOTD's desired structure types and best practices to provide consistent and efficient designs based on the appropriate wind loads for the region. Brian also provided construction support throughout to answer questions and review shop drawings.			
04/12 - 08/15	MONROE ITS PHASE I DOTD H.006576 Monroe, LA Structural Manager Lead the design efforts for a DMS cantilever steel truss structure with a pile foundation, guardrail for the DMS structure, and drilled shaft foundations for three camera pole heights (60-ft, 85-ft, and 100-ft). Assisted with developing a ladder system, with a security door to access the walkway suspended from the steel truss.			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Kunal Malpani, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	10	
TITLE	Structural Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2012 Civil Engineering; BS 2010 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 43016 LA 3/31/2025		
YEAR REGISTERED	2018	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Kunal has 10 years of engineering experience with an emphasis on structural projects. His primary focus has been in the analysis, design, rating, and inspection of a variety of bridge types including prestressed concrete girders, structural steel plate girders, concrete slab spans, multi-column concrete bents, and pile bents. He is proficient in commercial software packages such as AASHTOWare BrDR, RCPier, CONSPAN, MDX, and STAAD. Kunal has also been involved in the design of highway sign structures and reviewing structural shop drawings. He will be responsible for design of structural elements on ITS projects. Kunal will serve as SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - STRUCTURAL for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc.			
07/20 - 08/21	I-10 WBR QUEUE WARNING DOTD H.013482 West Baton Rouge, LA Structural Engineer Kunal was responsible for structural design, calculations and details of ITS foundations (CCTV and DMS) and a DMS support structure, platform and access ladder.			
03/20 - 04/21	I-10: US 61 TO LAPLACE ITS DEPLOYMENT DOTD H.013710 LaPlace, LA Structural Engineer Kunal was responsible for structural design, calculations and details of ITS foundations (CCTV), a solar panel structure, and bridge mounted conduit and junction boxes supports.			
09/19 - 04/20	I-110 ITS DEPLOYMENT DOTD H.013286 Baton Rouge, LA Structural Engineer Kunal was responsible for structural design, calculations and details of ITS foundations (CCTV).			
09/18 - 05/19	ALEXANDRIA ITS PHASE 3 DOTD Alexandria, LA Structural Engineer Kunal led the effort on the structural and foundation design of two post mounted Dynamic Message Signs (DMS) and foundation design of several CCTV camera poles along US 71 and LA 28 corridors as part of expanding ITS coverage in Alexandria, Louisiana. Completion of the project will allow DOTD to remotely monitor the corridors from the Statewide TMC in Baton Rouge. Kunal was responsible for structural design (per AASHTO LRFD standards) and plan development as well as coordinating with traffic and electrical disciplines to ensure the DMS support structure would accommodate the communication and power system design.			
10/18 - 07/19	SR-115 SMARTWAY ITS EXPANSION TDOT Knoxville, TN Structural Engineer SR-115 is a critical link between downtown Knoxville and the regional airport. The corridor is currently being upgraded and Stantec has been tasked with designing the new ITS deployment along the corridor which will include two Truss mounted Dynamic Message Signs (DMS) and 10 new CCTV camera poles. Kunal's responsibility included structural design and plan development of trusses and their foundation systems (per AASHTO LRFD standards) that includes spread footing, pile supported footing and median barriers as well as drilled shaft design for CCTV camera poles. Coordinating with traffic, electrical, roadway and structural disciplines within Stantec, TDOT and other parties involved is critical for successful completion of the project.			
12/18 - 12/19	I-140 SMARTWAY ITS EXPANSION DESIGN TDOT Knoxville, TN Structural Engineer The purpose of this project is to continue the current TDOT SmartWay ITS expansion along 10 miles of I-140 to the relocated SR-115 interchange. The project includes two Truss mounted Dynamic Message Signs (DMS) and several new CCTV camera poles. Kunal's responsibility included structural design and plan development of trusses and their foundation systems (per AASHTO LRFD standards) that include spread footings and median barriers as well as drilled shaft design for CCTV camera poles. Coordinating with traffic, electrical and structural disciplines within Stantec and TDOT is important for successful completion of the project.			

FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Zachary "Zach" Domingue, EI	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	7	
TITLE	Civil Engineer in Training	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2016 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		EI No. 33268 LA 03/31/2025		
YEAR REGISTERED	2017	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Zach has 7 years of experience designing and detailing Traffic and ITS projects. Zach began his career at Stantec working on projects for Stantec's Community Development division, but he then moved into traffic and ITS engineering in 2018. As a civil designer, he provided design for drainage, sewer, and utility systems for site development projects in Louisiana and Florida. Now working as a traffic and ITS engineer-in-training, Zach has built up significant experience designing underground communication systems, traffic signals, and ITS device sites. He also has experience performing traffic analysis using tools such as Synchro and HCS. His diverse experience provides a new perspective to projects. He has experience drafting and producing final plans in both AutoCAD Civil 3D and MicroStation V8i. Zach is well-versed in TDOT's Design Guidelines including Standard Plans, Standard Specifications, and Standard Pay Items. Zach will provide SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - ITS SITE DESIGN for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
12/18 - 05/19	ALEXANDRIA INTELLIGENT TRANSPORTATION SYSTEM DEPLOYMENT PHASE 3 DOTD H.011505 Alexandria, LA ITS Designer Zach assisted with the production and design of final ITS plans. He was able to help the Project Manager adjust final design and produce the final deliverable to the client.			
12/18 - 10/21	I-10/LOYOLA INTERCHANGE DESIGN-BUILD DOTD H.011670 Kenner, LA ITS Designer Zach helped prepare the ITS relocation and ITS design plans for the Loyola-I-10 interchange. He designed the communications routing between devices and back to the existing infrastructure and drafted the design and construction details in MicroStation.			
12/18 - 10/20	I-110 ITS EXPANSION DOTD H.013261 Baton Rouge, LA ITS Designer Zach helped in the complete ITS design for the ITS expansion on I-110 in Baton Rouge, LA. He helped develop the preliminary design and participated in field visits determining the final locations for ITS devices. He designed the communications routing between devices and back to the existing infrastructure and drafted the design and construction details in MicroStation.			
05/19 - Ongoing	SR-385 SMARTWAY ITS EXPANSION TDOT Memphis, TN ITS Designer/Plan Developer Zach assists in the complete ITS design for the ITS expansion on SR-385 in Memphis, TN. He supports the development of preliminary design and participated in field visits determining the final locations for ITS devices. He designs the communications routing between devices and back to the existing infrastructure and drafted the design and construction details in MicroStation. Zach participates in each of the progress and review meetings with the client.			
01/19 - Ongoing	TDOT TMC CENTRAL SOFTWARE UPDATE TDOT Statewide, TN Support Deployment Zach has been present on most meetings with the client. He will help support the deployment of the updated software in each region. Zach has visited the TDOT TMCs in Region 1 and 3 in gaining knowledgeable experience on the day-to-day operations of the TMC operators.			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Joseph "Joey" Lefante, PE, PTOE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	16	
TITLE	Senior Associate, Traffic / ITS Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2008 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 37244 LA 09/30/2024		
YEAR REGISTERED	2012	DISCIPLINE	Civil Engineering; PTOE #3560	
Contract role(s) / brief description of responsibilities	With over 16 years of experience working on major traffic and ITS projects, Joey has played an integral role in corridor management throughout Louisiana. He has experience with corridor studies, SEAs, and TMPs, as well as plan design and construction administration. His experience using various analysis software packages, including TransCAD, Synchro, and VISSIM, allows him to determine innovative transportation solutions tailored to each individual situation. Joey will provide SYSTEM ENGINEERING DESIGN & CONSTRUCTION SUPPORT - TRAFFIC CONTROL PLANS for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 - Ongoing	I-12 RAMP METERING DOTD H.012374 Baton Rouge, LA Traffic Engineer Joey managed the design of ramp meter upgrades at 17 locations along I-12 in Baton Rouge. Upgrades included new signal controllers, signal heads, radar detection, CCTV cameras, and wiring. Updated TSI timings for new controller software. Oversaw development of a Level 4 Transportation Management Plan for individual closures of each ramp.			
09/12-04/16	US 90Z NEW ORLEANS HOSPITALITY ZONE RAMP METERS DOTD H.010011 New Orleans, LA Traffic Engineer Joey was responsible for collecting data, including traffic counts and traffic signal inventories. He built a VISSIM model to model existing conditions on the Pontchartrain Expressway corridor in downtown New Orleans and then determined areas for improvement in lane configuration, signal timing, and equipment deployment. Joey also participated in several stakeholder meetings to gain a deeper understanding of the factors contributing to congestion as well as the needs of the different road users. After completing the traffic plan, Joey designed and detailed ramp meter signal plans for seven on-ramps in downtown New Orleans. He determined the location of ramp meter equipment, accounting for queue storage, processing speeds, and length requirements of on-ramps. He also detailed traffic control plans for frontage road lane closures. This project was unique in that all of the signal equipment was structure mounted.			
01/19 - Ongoing	I-10/LOYOLA INTERCHANGE DESIGN-BUILD DOTD H.011670 Kenner, LA Traffic Engineer Stantec was successful on this Design-Build pursuit that will provide a new efficient interchange at Loyola Drive and I-10 and which will be an improved entrance to the new Louis Armstrong New Orleans International Airport (LNOIA) terminal. Joey performed VISSIM analyses of an Alternative Technical Concept (ATC) consisting of two new flyover ramps leading to/from the Airport on the east side of the interchange and the first Diverging Diamond Interchange (DDI) in Louisiana. Joey completed an IMR to meet FHWA access policy standards to move the project forward on the accelerated design-build schedule. Joey also led the traffic signal design effort, including specialized DDI operations and complete street accommodations such as sidewalks and a two-way cycle track.			
08/14-Ongoing	I-49 LAFAYETTE CONNECTOR DOTD CONTRACT NO. H. 004273 Lafayette, LA Traffic Task Manager Joey is responsible for coordination with LADOTD traffic staff and managing analysis of various geometric design alternatives. Project includes a comprehensive Vistro model and additional analyses using TransCAD, VISSIM, and Sidra software packages. Project follows the Access Justification Request (AJR) guidelines established by DOTD and FHWA. Joey has been involved in the Context Sensitive Solutions (CSS) process, attending community meetings. Feedback from the CSS process has informed changes to ramp layouts and interchange design and has enabled Stantec to redesign several key elements to emphasize urban design principles, including pedestrian and bicycle accommodations.			
04/11-06/15	I-210 COVE LANE INTERCHANGE AND ROUNDABOUT DOTD CONTRACT NO. H.010151 Lake Charles, LA Traffic Engineer Joey developed an Interchange Justification Report (IJR) for I-210 between Cove Lane and Nelson Road interchanges. He developed peak hour traffic volumes for 28 possible design alternatives, which took into account and accommodated for all future developments in the area, including the Nelson Road Bridge over Contraband Bayou and the Ameristar Casino and Hotel development. Joey coordinated collection of traffic counts and performed field calibration of the traffic models by collecting data such as queues and travel times. Once the alternatives were narrowed down to the final 8, Joey performed HCS and SIDRA analyses on over 50 locations per alternative. The recommended alternative included innovative interchange configurations including roundabout ramp terminals at Cove Lane and a Diverging Diamond Interchange at Nelson Road.			

FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Andrew Preston	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	2	
TITLE	Director, Software Development	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	12	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2007 Business Administration		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	<p>With 5 years of software development management, Andrew is responsible for managing team resources, keeping the development team's efforts aligned with the strategic vision, implementing best practices and standards, reviewing and assessing new technologies, and developing custom applications. He is a well-respected and effective full stack software developer and communicator with over 10 years of software development experience to seamlessly translate business requirements and demands into efficient and revenue generating or cost cutting software technology. Proven as a team leader with a strong ability to provide reasonable and acceptable financial and timeline forecasts. Andrew is Microsoft Certified: Azure Fundamentals AZ-900, 2023. He utilizes Agile project methodologies, emphasizing efficient, team-based work. His background combines technical depth with management skills, focusing on developing and delivering high-quality software solutions. Andrew will serve as SYSTEM DEVELOPMENT TASK LEAD for this contract. Andrew meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 8</p>			
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).			
01/19 - 03/24	APPLICATION DEVELOPMENT SERVICES Tennessee Valley Authority (TVA) Chattanooga, TN Data Architect Andrew helped TVA tackle their digital challenges, steering a digital transformation strategy to analyze operations and leverage technological advancements. Andrew directed development of an intricate data warehouse that integrated business intelligence systems, encompassing data mining, AI, and machine learning capabilities. His contributions enhanced operational efficiencies through streamlined models and data trend analyses. Andrew designed and implemented data pipelines for real-time data access, crucial for informed strategic planning. He spearheaded the creation of advanced decision support systems and real-time data visualization tools, significantly improving business agility and insight. Andrew played a key role in the development and oversight of KPIs in alignment with TVA's strategic objectives. He also led the transition from Power BI dashboards to a custom web application hosted on Microsoft Azure, offering a more tailored and scalable solution for TVA's needs.			
12/22 - 10/23	APPLICATION MODERNIZATION Department of Energy (DOE) Data Architect For the Department of Energy (DOE) and Mission Support and Test Services (MSTS) Business Insights and Analytics Center of Excellence, Andrew developed a strategic Application Modernization plan to update the DOE's technology infrastructure with enhanced data analytics capabilities. Included migrating self-service analytics to the cloud, facilitating real-time data access and streamlined analysis. Andrew laid the groundwork for integrating advanced AI, drafting an AI Adoption Plan aimed at leveraging AI for transformative data analytics. Through data virtualization techniques, he integrated diverse data sources, ensuring seamless data accessibility for analytics. Led the redesign of over 100 dashboards, improving user experience and introducing predictive Key Performance Indicators (KPIs).			
06/23 - 03/24	HPMA SOFTWARE DEVELOPMENT Stantec.io Software Development At Stantec.io, Andrew served as lead software developer, steering the development an innovative SaaS product, HPMA, a pavement management system tailored for Department of Transportation agencies. Andrew played a pivotal role in the entire software development lifecycle, from conceptualizing and architecting the solutions to ensuring their successful deployment and continuous improvement. His expertise in agile methodologies propelled the products to the forefront of their respective markets, delivering robust, user-centric applications that enable clients to make data-driven decisions efficiently.			
04/23 - 03/24	FLOOD PREDICTOR SOFTWARE DEVELOPMENT Stantec.io Software Development At Stantec.io, Andrew served as lead software developer, steering the development an innovative SaaS product, Flood Predictor, a tool designed for accurate flood forecasting. Under his leadership, the team harnessed the latest in cloud technologies, data analytics, and machine learning to provide comprehensive, scalable solutions. Andrew played a pivotal role in the entire software development lifecycle, from conceptualizing and architecting the solutions to ensuring their successful deployment and continuous improvement. His expertise in agile methodologies propelled the products to the forefront of their respective markets, delivering robust, user-centric applications that enable clients to make data-driven decisions efficiently.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Josh Bean	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	2	
TITLE	Team Lead, Software Development	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	15	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2006 Computer Science		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	A certified Microsoft Software Developer, Josh has deep experience working with Microsoft stack technologies, including Azure Cloud services, for various financial industry companies like EdgeCo Holdings and CSI. He has had the opportunity to lead teams of developers to increase efficiency, implement and improve enterprise security, and drive newer technology implementation across code bases all within an agile development environment. He enjoys designing solutions, focusing primarily on backend services within the .NET and Azure frameworks and works on a number of Stantec initiatives including FAMS V2.0. Josh will provide SYSTEM DEVELOPMENT AND INTEGRATION SERVICES for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/24 - 06/24	FLOOD PREDICTOR SOFTWARE DEVELOPMENT Stantec.io Software Development Team Lead Josh led the development and design of an API hosted in Microsoft Azure to interface with proprietary Stantec machine learning algorithms for predicting the severity of flash floods. He worked with product managers, business analysts, and his development team to create business requirements, adhere to safe development practices, and deliver a marketable API for commercial use.			
04/23 - 01/24	FINANCIAL ANALYSIS & MANAGEMENT SYSTEM Stantec Software Development Team Lead Josh led the development effort to move a financial analysis application for municipal utilities from SharePoint to a cloud-based solution. He redesigned the application for multitenant support and applied current technology standards to create a better experience for users. He worked closely with the internal stakeholders and user experience designers to integrate their concepts for creating new financial plans through an easy guided setup workflow.			
11/19 - 12/21	RETIREMENT SOLUTIONS EDGE CO HOLDINGS Software Team Lead Josh managed a team of developers to integrate several systems within a retirement plan management company. He was able to apply some of the latest Azure technology solutions to increase their productivity and improve the user experience of client facing websites. Several new APIs were developed to share data for reporting between sectors of the company and third-party providers. New internal applications were also developed to improve efficiency, while still maintaining legacy systems, to seamlessly provide new features and capabilities for thousands of retirement plan participants but continue to sustain existing websites and processes.			
04/14 - 01/18	CUSTOMER RELATIONSHIP MANAGEMENT CSI Software Solutions Architect Josh designed and implemented a unique customer relationship management system for financial institutions. The software allowed for identification, tracking, and management of connections between customers. He developed visualizations of relationships between customers according to shared metadata including geographic location, employer, and organization affiliation. During the development of the application, Josh also led an effort to create a single UI library to share style assets and components throughout the company. He also played a key role in pushing several initiatives to adopt newer technology and develop Rest APIs to communicate between different systems.			
10/13 - 04/14	CONSTRUCTION ASSET MANAGEMENT Gray Construction Lead Software Engineer Josh led software development of an asset management system for a large construction management firm. The software tracked the location, usage, and replenishment of resources using GPS and barcode scanning technology. Usage of the system led to significant reductions in loss of materials and manual inventory controls. Josh worked closely with stakeholders and users in the field to assess the needs of the system prior to development of the cloud-based software solution.			
05/09 - 06/12	NUPOINT LOANS SOLUTION CSI Software Team Lead Josh led a team of developers in developing and maintaining a large-scale software system that allowed bank employees to manage loans and assess risk. He designed key technical aspects of the system and monitored the execution of the design. He met with stakeholders on a regular basis to collect feedback and work through new requirements. He guided the product through initial development, addition of key features, and several system upgrades.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Richard Hake	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	8	
TITLE	Technology Consulting Practice Lead	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		MA 2023 Professional Education; MBA 2014; BS 2011 Actuarial Science		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	<p>Richard is a Business Transformation Strategist with extensive experience in organizational consulting, program management, business analytics, and process automation. Skilled in leading digital transformations, he specializes in modernizing technology ecosystems and tailoring solutions to meet each client's unique needs, enhancing their organizational resilience. With over a decade in the field, Richard is adept at designing and implementing complex technology solutions, analyzing business requirements, and developing strategic plans that align with organizational goals. His deep understanding of various technologies enables him to create customized solutions that boost operational efficiency and drive digital transformation. An effective communicator, Richard bridges the gap between technical teams and business stakeholders, ensuring a cohesive approach to IT and business objectives. Leading cross-functional teams, he focuses on integrating new technologies seamlessly and delivering sustainable solutions that adapt to an organization's evolving needs. Richard's commitment to digital transformation extends beyond technology adoption, emphasizing a people-first strategy. This approach aligns technological progress with human resource development, fostering efficient, resilient, and future-ready organizations. Richard will provide SYSTEM DEVELOPMENT AND INTEGRATION SERVICES for this contract. Richard meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 10</p> 			
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).			
11/23 - Ongoing	<p>ATCMTD GRANT PROJECT: AI-DSS TDOT Nashville, TN Data Analytics Lead</p> <p>Richard led the structured system analysis and design for the AI-based Decision Support System at TDOT, focusing on geographically dispersed control systems and networks. He developed and implemented client-server architectures to ensure seamless communication and integration between various software components. His work included designing and analyzing the communications infrastructure, integrating field devices for accurate data collection and real-time monitoring, and leveraging APIs and center-to-center (C2C) system design to enhance interoperability and data exchange between different systems and stakeholders. Richard conducted comprehensive cost and economic analyses to evaluate the system's financial viability and sustainability, ensuring cost-effectiveness and maximizing ROI. He developed engineering-based performance measures to assess the system's effectiveness in enhancing mobility, safety, and environmental sustainability. Additionally, he evaluated and enhanced client operation and maintenance capabilities to ensure the system was user-friendly and maintainable. By performing alternative analysis to compare various system design options, Richard provided informed recommendations that aligned with TDOT's strategic goals. Through his work, Richard facilitated the integration of advanced technologies and data-driven insights, setting a new standard for decision-making within TDOT and significantly improving Tennessee's transportation infrastructure.</p>			
04/23 - Ongoing	<p>TRANSPORTATION PLANNING DECISION SUPPORT TOOL TDOT Nashville, TN Project Director</p> <p>Richard provided vision and technical review in the digitalization of TDOT's Long-Range Planning processes. This initiative involved ensuring the seamless integration of data from numerous sources into a secure Oracle Data Warehouse, enhanced by custom Power BI interfaces. Richard's strategic oversight was critical in aligning the project with TDOT's unique needs, employing an iterative decision-making process that incorporated continuous feedback. Stantec's approach, emphasizing adaptability and user-focused design, led to the creation of the County Profile Tool. This tool, a testament to Stantec's commitment to innovative and effective technology solutions, provides in-depth insights into demographics and travel patterns, essential for developing resilient and equitable transportation networks.</p>			


06/19 - Ongoing	<p>APPLICATION DEVELOPMENT SERVICES TVA Chattanooga, TN Project Manager</p> <p>Richard closely collaborated with TVA to understand their digital challenges, analyze operations, and formulate strategies for a digital transformation. He led the structured system analysis and design of a complex data warehouse, which involved the analysis and design of geographically dispersed control systems and networks, including client software, server-based software, communications infrastructure, and field devices within the control system. Richard's work integrated Application Programming Interface (API) to ensure seamless data exchange and interoperability. His responsibilities included conducting cost and economic analyses to evaluate the financial viability and sustainability of the solutions, ensuring cost-effectiveness and maximizing ROI. Richard developed engineering-based performance measures to assess the system's effectiveness and enhanced TVA's client operation and maintenance capabilities to ensure usability and maintainability. He performed alternative analysis to compare various system design options, providing informed recommendations that aligned with TVA's strategic goals. Richard's expertise enabled extensive Business Intelligence (BI) capabilities, including data mining, AI, and machine learning, which empowered TVA's leaders with robust decision-making evidence. He streamlined model efficiencies, analyzed data for trends and insights, and mapped data pipelines for real-time data integration. Leading the development of decision support systems and real-time data visualizations, Richard played a crucial role in formulating and monitoring KPIs. He also created user interfaces in Power BI, transitioning to a custom web app on Microsoft Azure. Through his work, Richard facilitated the integration of advanced technologies and data-driven insights, significantly improving TVA's operational efficiency and strategic decision-making capabilities.</p>
01/22 - 10/23	<p>APPLICATION MODERNIZATION NEVADA NATIONAL SECURITY SITE (NNSS) Las Vegas, NV Project Manager</p> <p>Richard spearheaded a transformative modernization initiative for the Nevada National Security Site (NNSS). This involved developing an Application Modernization plan to align their technology stack with industry standards and a seamless migration of self-service analytics to the cloud, unlocking real-time data access and analysis through data virtualization. Richard also led the development of an AI Adoption. Plan that laid the foundation for harnessing cutting-edge artificial intelligence capabilities. Stantec also modernized over 100 dashboards, enhancing their usability. Within this UI/UX transformation, Stantec introduced innovative and predictive Key Performance Indicators (KPIs), enabling the DOE to uncover deeper operational insights and drive towards excellence.</p>
10/23 - Ongoing	<p>GPC DRONE PROGRAM Southern Company Atlanta, GA Project Manager</p> <p>Richard was the Project Manager for the GPC Drone Program which included the integration of Skydio drones with Trimble project management software. This initiative marked a significant step in digitalizing construction management processes, merging real-time aerial data capture with advanced analytics and project oversight within a MS Power BI dashboard. His role focused on aligning technical teams and stakeholders around the goal of enhancing operational efficiency through this IT and OT integration.</p>
01/18 - 12/20	<p>BRIDGING KENTUCKY PROGRAM KENTUCKY TRANSPORTATION CABINET Statewide, KY Program Management</p> <p>Richard played a pivotal role in the KYTC Bridge Program, a substantial \$700 million endeavor, demonstrating his expertise in project controls and structured system analysis and design. The program involved evaluating, maintaining, repairing, and potentially replacing over 1,000 bridges. Richard's responsibilities included the analysis and design of geographically dispersed assets, incorporating client software, server-based software, and field devices. He leveraged Application Programming Interface (API) to ensure seamless data exchange and interoperability across the extensive network of bridges and stakeholders. Richard conducted cost and economic analyses to evaluate the financial viability and sustainability of the solutions, ensuring cost-effectiveness and maximizing ROI. In establishing project controls processes tailored to the program's unique requirements, Richard created a system that effectively tracked costs and progress on a per-bridge basis. This comprehensive approach encompassed developing processes for both Stantec and the 21 subcontractors involved in the program. To streamline communication and ensure efficient program performance, Richard leveraged PMO technology tools such as eBuilder and Power BI. Notably, he customized eBuilder with numerous automated workflows, a strategic move that codified best practices and significantly enhanced the overall program's efficiency. Through his work, Richard facilitated the integration of advanced technologies and data-driven insights, setting a new standard for project controls within the KYTC Bridge Program and significantly improving the efficiency and effectiveness of bridge management across Kentucky.</p>


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Robert "Rob" Bebout Jr.	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	Senior Associate, Senior Technology Consultant	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2015 Media Arts Studies, Concentration in Web Development & Web Design		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	<p>As a seasoned technology solutions architect, Robert sees his multifaceted role as a bridge between business and technology. He dives deep into understanding what stakeholders need to craft detailed system designs—choosing the right technologies and guiding development teams to implement secure, scalable solutions that meet business goals. His unique combination of qualifications and hands-on experience spans multiple domains combining to provide a solid foundation for his work. His contribution to projects offers a blend of technical proficiency and a strategic understanding of how technology can support and enhance business decisions. He has held a variety of roles including data strategist and data analyst making him uniquely suited for developing tools to help support business decisions. Rob will provide SYSTEM DEVELOPMENT AND INTEGRATION SERVICES for this contract. Certifications: Applied Data Analytics, Microsoft, 2019; Data Science Fundamentals, Microsoft, 2019; Advanced Google Analytics, 2017; Denodo Certified Architect, 2022. Rob meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 11</p>			
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).			
01/24 - Ongoing	ATCMTD GRANT PROJECT: AI-DSS TDOT Delivery Manager / Lead Developer Rob spearheaded the creation of a comprehensive Power BI dashboard (internally hosted, but in Web-ready format). This project involved the integration of transportation data from six different API sources, resulting in a dynamic and interactive dashboard with over 10 detailed pages. My responsibilities included overseeing the entire development process, ensuring timely delivery, and leading a team to effectively visualize critical transportation metrics, ultimately enhancing data-driven decision-making for the department.			
02/24 - Ongoing	CPT V2 TDOT Delivery Manager / Business Developer Rob led the re-compete effort, securing the project from its initial version. I was responsible for assembling and submitting the proposal, ensuring our continued partnership. The project involves developing a sophisticated Power BI tool that integrates data from over 50 publicly available sources, including census, transportation, social vulnerability, road conditions, and forecasting data. My leadership ensured the delivery of a comprehensive, user-friendly dashboard that provides valuable insights for stakeholders.			
01/23 - 09/23	DOE KPI SUPPORT Department of Energy Delivery Manager / Business Developer Rob led the pursuit team in finding, competing, and winning this MSA with the Department of Energy. The DOE was looking for a consultant that could help with the enterprise reporting needs of the Nevada National Security Site. The team was tasked with digitally transforming the NNSS and furthering their ability to make real time business decisions using data.			
01/22 12/22	CPT TDOT Lead Developer / Project Manager TDOT's Long Range Planning Division had the need for public and internal facing tools that consolidated economic, demographic, transportation, and geographic data. Stantec was selected to identify publicly available government data sources, design data pipelines, create a data warehouse, and design a Power BI driven analytics and webpage dashboard. Stantec identified 22 APIs managed by government entities containing over 700 unique variables related to the data TDOT was searching for. Stantec established automated data pulls and ETL routines to collect, clean and upload the data into an Oracle Database owned by the client. Stantec then designed a dashboard using TDOT's branding guidelines which matched the look and feel of the TDOT website. Robert led the pursuit, as the project manager, and lead developer overseeing every aspect of the project.			
10/21 - Ongoing	CINCINNATI MSD Cincinnati Municipal Sewer District Application Developer Tasked to redesign existing project management Power BI dashboards previously developed in house by the client. Success of redesign expanded scope of the project to developing new tools to visualize and analyze the entire program for client. Worked with CMSD leadership and management to create new insightful dashboards to identify risks, minimize budget leakage, and move overall program towards an earned value approach to individual project management.			


09/21 - Ongoing	BUILDING SCIENCE SUPPORT FEMA Application Developer Brought in to lead the development of a nationwide tool utilizing Power Bi, Power Apps, and Power Automate. Success of the tool was widely received internally and with the client – all the way up to the director level. This expanded the scope of services to two additional low code tools that are currently in development.
06/20 - Ongoing	TRANSPORTATION BUSINESS CENTER Stantec Internal Business Center Applications Developer Assisted with the creation and now handle the management of a Power Bi reporting tool for the 1785 Transportation Center. Working directly with BCML to tailor the reporting tool to the needs of the transportation sector. Hold monthly meetings after consolidating and updating period information to help BCOL better understand where the metrics from the P&L are coming from. Serving a hybrid role as a developer but also a business analyst, bringing project controls and financial management experience to the table.
12/19 - Ongoing	STAR II PROGRAM FEMA Nationwide Project Application Developer Brought in to lead Power Bi initiative for management of a government program. Helping to consolidate and visualize massive datasets from sites all around the country. Instrumental in setup of standard processes for project reporting and management. Working with over 600 Project managers to collect, organize, and import data into Power Bi for top level analysis. Helped in the development of an automated risk detection feature that flags certain technical patterns in the data. Tasked with maintaining data feeds from Microsoft Project schedules and invoicing tools into Power Bi. Ensures leadership has consistent access to accurate and real time data from across the country. Tool is in its 2nd year of use and is heavily relied upon by over 150 users all across the country.
08/20 - Ongoing	TVA VOH PROJECT Tennessee Valley Authority (TVA) Project Manager Developer Overseeing all aspects of the Virtual Open House project. Team is designing virtual environments for community to enter and engage with content on their laptops, tablets, or mobile devices. Virtual Open Houses bring the information to the people during this time of covid restrictions to help them immerse in an experience and gain valuable information about things happening in their community. Responsible for on time deliverables, project budget, client invoicing and client relationships associated with the project. Weekly review and approval of invoices for the 11 tasks on the project. Required to provide TVA with a monthly forecast to be met within +/- 10%.
04/20 - Ongoing	TVA PROGRAM Tennessee Valley Authority (TVA) Task Manager Assisted with the creation and submission of proposal. Upon contract being award, was made responsible for \$300,000+ task. With dozens of people charging to the project code, duties include the monitoring of charging and monthly forecasting. Per client request, monthly invoicing must be within 10% of the previous month's forecast. Rob is responsible for the planning and coordination of monthly meetings to discuss project financials with the PM and other leadership level personnel. Duties also include the analysis of project health for gross margins and net revenue forecasting. Overall, responsible for financial health of the task with a significant roll in financial health of the entire project.
08/19 - Ongoing	BRIDGING KENTUCKY PROGRAM Kentucky Transportation Cabinet Statewide, KY Information Management Team Lead Responsible for the on-time delivery of team goals. Establish and uphold timelines to keep the team and productivity moving at a speed consistent with client requests. Plan and coordinate meetings across multiple companies and locations. Acting as technical problem solver for e-Builder and Power Bi software. Responsible for data visualization, automation, data collection and data organization within Power Bi. Providing accessible, real-time data to client and leadership for KPIs. Established schedule fetching with SQL databases and Power Bi integrations. Understand and resolve client issues with data visualized into easily digestible maps, graphs and charts.


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Joseph Jaramillo, GISP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	Director, Professional Services	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	18	
DEGREE(S) / YEARS / SPECIALIZATION		N/A		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	<p>With more than 22 years of experience leading innovation and technology services, Joseph has focused on helping our staff and clients navigate an increasingly digital world. He uses technology to differentiate in the engineering consulting industry, and he's an active program and project manager delivering information technology solutions across our buildings, water, energy, environmental, and infrastructure projects. From project planning to execution, delivery, and maintenance, Joseph's work adds efficiency to projects and value for his clients. Each piece of technology is another step forward, but what Joseph is really passionate about is creating an agile organization that supports the interface between people and technology. Recently, he's been working with telemetry and digital twin initiatives as well as transportation/mobility technology and automation. Joseph also has ITS engineering experience previously serving as an ITS Project Manager for the New Mexico Department of Transportation. Joseph will provide SYSTEM DEVELOPMENT AND INTEGRATION SERVICES for this contract.</p>			
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).			
03/19 - 02/21	<p>TDOT STATEWIDE TRAFFIC MANAGEMENT CENTER UPGRADE TDOT Statewide, TN Software Application Development</p> <p>Stantec, in coordination with the Southwest Research Institute (SwRI) as their subconsultant, has been tasked by TDOT to provide engineering and deployment support services to integrate ActiveITS into their four Traffic Management Centers (TMCs) across the state. As part of this project Joseph configured automatic vehicle location tracking for TDOT help trucks, built on Cisco's Edge Computing platform.</p>			
06/23 - 06/24	<p>FEMA, FEDERAL FLOOD RISK MANAGEMENT STANDARD (FFRMS) Nationwide Delivery Manager</p> <p>Joseph led a team of data scientists, machine learning specialists, and application developers, as part of the STARR II JV, to create Freeboard Value Approach (FVA) floodplains across multiple states. FVA floodplains are areas with a factor of safety 1, 2, and 3 feet above the standard 1% annual chance floodplain. This effort is required across 56,000 stream miles. To do manually would take enormous effort, so Stantec.io developed a tool using machine learning and data science that delineates each basin and creates all the freeboard depth grid floodplains needed for the client. The tool will automatically produce the riverine FVA rasters for a wide range of watersheds and conditions. The data produced from the tool will provide FEMA essential resources for effective decision-making, flood risk mitigation, and disaster preparedness in these areas.</p>			
10/21 - Ongoing	<p>TN PLAN COMMUNITY PORTAL Tennessee Department of Economic and Community Development (TNECD) Statewide, TN Delivery Manager</p> <p>Joseph coordinated efforts between a team of engineers, data scientists, machine learning specialists, and application developers to integrate Stantec's Flood Predictor into the TN Plan Community Portal. The web portal connects communities with beneficial tools and information to promote economic and community development. Integrated the Flood Predictor application into the portal to help educate Emergency Managers with risks related to flooding in their communities. Flood Predictor provides insights on when and where a flooding event is likely to happen, based on data, statistical simulation, and sound engineering to help optimize decision making. Customized Flood Predictor for West Tennessee using local data and then trained and validated against recent flood models. Flood Predictor was provided as an interactive web dashboard with flood predictions and probabilities based on user selected rainfall runoff values. This project won the 2022 American Council of Engineering Companies of Tennessee Engineering Excellence Award, the 2022 MAPPS Excellence Award, and the 2023 American Council of Engineering Companies National Recognition Award for Flood Predictor.</p>			
09/22 - Ongoing	<p>STATEWIDE 2D FLOODPLAIN MAPPING PORTAL Kentucky Division of Water Statewide, KY Delivery Manager</p> <p>Joseph currently leading an interdisciplinary team to build a dynamic cloud-based portal system that houses and manages the state's 2D flood model inventory to serve as a trial implementation of FEMA's Future of Flood Risk Data (FFRD) initiative. Implemented Stantec's Flood Predictor to provide flood prediction data to assist the client with flood mitigation and planning. Also implemented Stantec's Model Manager to provide an interactive library where users can upload, download, query, modify, tag, and manage models through a cloud-based process. Developed a public web portal to both visualize data sourced from Flood Predictor and provide a one-stop-shop flood model repository from Model Manager. The digital system provides the client a flood hazard modeling cyclical process to support its mapping, permitting, compliance, and CLOMR/LOMR progression.</p>			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Samuel Sim, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Senior ITS Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	11	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2012 Civil Engineering; BS 2010 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 097343 NY* 06/30/2025		
YEAR REGISTERED	2017	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Samuel has 12 years of operational and design experience in the ITS industry. His experience includes P3, system integration, and AEC consulting as technical staff, task leader, and project manager. Most notably, he was the project manager for Phases 2 and 3 of the USDOT Connected Vehicle (CV) Pilot Deployment Program in New York City and supported NYCDOT in design, integration, testing, operation, and maintenance of the CV system in a large, dense urban environment. Samuel has worked on a variety of ITS design, CV pilot, Transit Signal Priority (TSP), and adaptive signal control deployment projects. Samuel will provide SYSTEM DEVELOPMENT AND INTEGRATION SERVICES for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/14 - 01/15	ROSWELL ROAD ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) - PHASE 2 City of Sandy Springs Sandy Springs, GA Project Engineer Samuel was involved in the design and testing for Phase 2 of GDOT SR 9 (Roswell Road) ATMS. Specific design elements included the CCTV, Split Cycle Offset Optimization Technique adaptive signal control system, and Sensys wireless vehicle detection system (VDS). He supported the CCTV camera system upgrade from IronSky to Genetec and integration of SCOOT and VDS at 27 SR 9 intersections with TACTICS central traffic management system. This extended the SR 9 ATMS in Sandy Springs. The SEA report was submitted to GDOT and FHWA to justify the need for adaptive traffic signal technology. This project was funded by GDOT as part of a multi-jurisdictional ATMS project with City of Atlanta and through Public-Private Partnership (P3) contract with City of Sandy Springs, GA.			
08/15 - /9/20	SYDNEY COORDINATED ADAPTIVE TRAFFIC SYSTEM (SCATS) DEPLOYMENT NJDOT Statewide, NJ Project Engineer Samuel supported the deployment and integration of SCATS at Routes 130 and 32, Route 18, Route 1, and Route 73 for NJDOT. Efforts included reviewing the existing ITS design plans to determine the intersection layouts and constraints before installing and activating SCATS, developing intersection graphics on SCATS software, and fine-tuning the signals in the field for system verification and validation. SCATS optimizes the traffic flow on a real-time, cycle-to-cycle basis as opposed to traditional time-of-day signal plans.			
04/21 - 08/23	NYC TRANSIT SIGNAL PRIORITY (TSP) PROGRAM NYCDOT New York, NY Task Lead Task Leader for supporting NYCDOT with its TSP deployment throughout NYC's 5 boroughs in coordination with the MTA NYCT. Samuel spearheaded the QA/QC efforts of TSP parameter data in MTA's central management system and monitored the TSP operation at signalized intersections through NYCDOT's traffic control system (TCS). Project elements included agile development on JIRA to coordinate with software engineers and developers for enhancing the trigger point interface in NYCDOT's TCS and resolve bugs in the software. Project was funded through multiple task orders as part of NYCDOT's TSP Engineering Service Agreement.			
01/15 - 05/17	SYSTEMS INTEGRATION WITH NYCDOT'S TRAFFIC CONTROL SYSTEM (TCS) NYCDOT Statewide, NY Project Engineer Samuel provided data and video communications networks and systems integration services for NYCDOT. He monitored NYCDOT's TCS that manages 13,000+ intersection signals and other ITS systems including CCTV, CTSS, and traffic detectors. He integrated TCS with Roadside Units for NYC CV Pilot deployment as well as the Midtown-in-Motion system that consists of Adaptive Control Decision Support System, CCTV cameras, radar remote traffic microwave sensors, and EZ-pass toll tag readers from 2nd to 6th Aves in Manhattan. Project was funded through multiple task orders as part of NYCDOT's ITS Engineering Service Agreement.			
09/16 - 12/21	NYC CONNECTED VEHICLE (CV) PILOT DEPLOYMENT - PHASE 2 AND 3 NYCDOT New York, NY Project Manager Project Manager for Phases 2 and 3 of the NYC CV pilot on design, deployment, and operation of ITS technologies and following the ITS architectures and Systems Engineering Process. Key efforts included overseeing client, stakeholder, and vendor status meetings and monitoring the budget, scope, schedule, issues, and risks for not only the consulting team but also for the overall program awarded to NYCDOT by USDOT. Based on planning for CV implementation in Phase 1, Phase 2 involved system architecture, design, and procurement of 3,000 Onboard Units and 450 Roadside Units supporting Dedicated Short Range Communication and coordination with vendors on building the applications and devices. Samuel performed data and video communications networks and systems integration of the CV technology into NYCDOT's Traffic Control System, as well as device and system testing, verification, and validation. Finally, Phase 3 paved the way for operations and maintenance of a live CV system highlighted by the Operational Capability Showcase, performance measurement and evaluation of collected data, and post-deployment transition planning for consideration of a potential migration from DSRC to cellular vehicle-to-everything.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Larry Overn II, PE, PTOE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	25	
TITLE	Senior Associate	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1999 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 84997 PA* 9/30/2025		
YEAR REGISTERED	2016	DISCIPLINE	Civil Engineering; PTOE No. 1597	
Contract role(s) / brief description of responsibilities	Larry is a traffic engineer with more than 25 years of technical experience and 20 years of project management experience, including ITS design, ITS planning, Systems Engineering Analysis, traffic signal design, signal timing analysis and implementation, signing and marking design, signal warrant studies, traffic impact studies, traffic safety studies, and data collection projects. Larry is a member of the Signals Technical Committee (STC) of the National Committee on Uniform Traffic Control Devices (NCUTCD). He is the chair for the Traffic Signal Features Task force of the STC. Larry will serve as INDEPENDENT VERIFICATION & VALIDATION - TASK LEAD on this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
12/21 - 03/23	ATMS AND 511 SEA DOTD Statewide, LA Quality Control Reviewer Larry provided QA/QC for the ATMS & 511 Systems Engineering Analysis report. The SEA process included significant stakeholder engagement, TMC operator interviews about the existing systems, vendor demos, and concept of operations workshops. The results of the SEA are being utilized to develop detailed requirements and an RFP procurement document for a hybrid cloud/on-prem system.			
10/17 - 10/22	IDIQ FOR DESIGN AND IMPLEMENTATION SERVICES DOTD Statewide, LA Quality Control Reviewer Stantec performed services in the areas of Statewide ITS system design, integration and verification, with specialized engineering and related services required to implement emerging ITS technologies for proposed projects covered by this IDIQ contract under separate Task Orders. Larry provided QC/QA reviews on multiple systems engineering analysis reports and design plans.			
04/21 - Ongoing	ATCMTD GRANT PROJECT: AI-DSS TDOT Nashville, TN Quality Control Reviewer With the opportunity to transform how ICM concepts are managed and deployed across the United States, Stantec collaborated with TDOT, Vanderbilt University, and Southwest Research Institute (SwRI) to develop and deploy an AI-based decision support system (AI-DSS) to facilitate ICM operations along the I-24 SMART Corridor, the most traveled corridor in the state. This AI-DSS has created the opportunity to reduce the cost and time it takes to deploy DSS across Tennessee and the country by leveraging AI to understand and quickly process data to make intelligent decisions rather than relying upon the traditional corridor-specific traffic model. Larry provided multiple QA/QC reviews on report and Project Systems Engineering Management Plans.			
01/18 - 12/20	ITS ON-CALL CONTRACT TDOT Statewide, TN Traffic Engineer Larry worked on the development of the Conceptual Exploration report, Systems Engineering Analysis Report, and multiple workshops in support of the TDOT TMC Central Software upgrade project. After the completion of the SEAR, Larry worked in support of configuring the software and developing training materials and user manuals.			
10/22 - Ongoing	THE BANKS VMS, PHASE III Hamilton County, OH ITS Engineer Larry managed the development of the Systems Engineering Analyses for a parking management system to be installed within the The Banks Central Riverfront Garage. The project included conversations and meetings with multiple stakeholders and the development of a Systems Engineering Analysis that informed the procurement of the system. The system was an evolution of previous projects that included the installation of Variable Message Signs on surrounding roadways. The Parking Management System was envisioned to integrate with and work in coordination with the previous ITS deployments. The County selected a vendor and the project is currently under construction. Larry is working to represent the owner in ongoing status meetings and will be involved in the verification of the ultimate system to ensure it meets all project requirements.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Frank Phillips, IMSA II	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	14	
TITLE	Senior Transportation Specialist	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	18	
DEGREE(S) / YEARS / SPECIALIZATION		AAS 1990		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Frank is a Senior Transportation Specialist and Construction Inspector with 32 years of experience. He performs traffic signal and field device testing, maintenance inspections, troubleshooting and repairs to MDOT, county, and city- maintained traffic signals and ITS systems state-wide. Frank's experience also includes traffic signal design, traffic control signing layouts, plan checking, and field inspections of traffic signal and safety projects. Additionally, he assists in the design inspection of ITS infrastructure improvements including CCTV cameras, vehicle detection systems, fiber optic and microwave communications systems, and dynamic message signs. Certifications: NFPA 70, 2022; NFPA 70E, 2022; IMSA Traffic Signal Technician Level II, 2014; IMSA Work Zone Safety Specialist, 2012; ArcGis, 2006; Advanced Autocad, 1994. Frank will provide INDEPENDENT VERIFICATION & VALIDATION on this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/21 - 12/22	TRAFFIC SIGNAL MAINTENANCE SUPPORT MDOT Statewide, MS Senior Transportation Specialist Stantec entered into a contract with MDOT to perform preventative maintenance on all MDOT maintained traffic signals in district 1 and 2. The scope of work for this project included: program and project management, equipment operational assessments and testing, identification of deficiencies, repair cost estimates, preparation of recommendations for component repairs or upgrades for traffic signal systems and components traffic signal communication interfaces, cabinet cleanup, and minor repairs as directed.			
04/10 - 12/14	MDOT TRAFFIC SIGNAL INVENTORY AND GEODATABASE MDOT Statewide, MS Senior Transportation Specialist Served as GIS Technician and Assistant Signal Technician. Performed on site field inventory for more than 150 MDOT maintained traffic signals. Project includes diagnosis of existing traffic signal equipment and determination of repairs needed, locating existing underground signal and power cables, survey all underground cables, and all existing signal structures, photograph all signal equipment and structures, import all data into a geodatabase. Reports and geodatabase are provided to MDOT and Inventory data will be integrated with Mississippi 811 system (formerly Mississippi One Call).			
07/22 - 12/23	US 49 SIGNAL UPGRADE AND ITS PROJECT MDOT Statewide, MS Senior Transportation Specialist Team member for the development of construction plans and specifications to upgrade all traffic signals and install a new fiber optic trunk line along US 49 through the City of Gulfport. The signal system and Closed Circuit Television (CCTV) cameras along this arterial will be connected to both the City of Gulfport Traffic Division office and the future MDOT Regional TMC. The potential addition of Mississippi's first Adaptive Traffic Signal System and additional ITS components to this project is currently under consideration.			
05/18 - 12/20	US 82 / MS 1 SYSTEMATIC TRAFFIC SIGNAL IMPROVEMENTS MDOT Greenville, MS Senior Transportation Specialist Project was to rehabilitate 24 Intersections on US 82 and MS 1 in Greenville. Also included was replacement of permanent Signs and approximately 17 miles of fiber optic cable to interconnect all 24 signals to the MDOT Statewide Traffic Management Center along with cameras and Bluetooth devices. Frank was responsible for coordinating all the utility locates for project location. He was also responsible for all the utility survey for the entire project. Frank also developed Signal upgrade plans for all 24 intersections and assisted with the development of the ITS plans.			
01/15 - 05/21	ON-CALL TRAFFIC SIGNAL SERVICES City of Madison Madison, MS Senior Transportation Specialist TFrank has provided an on-call service with The City of Madison, MS to assist the city with maintenance and troubleshooting issues with traffic signals and ITS equipment. To date, Stantec has maintained 48 traffic signals, made repairs and upgrades, and made numerous call-outs to assist with operational issues.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Greg Rodriguez	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	Mobility Policy Principal	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	18	
DEGREE(S) / YEARS / SPECIALIZATION		JD 2007 Law; BA 2001 International Relations		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	With his legal, policy, and legislative experience, Greg provides insights and recommendations on proposed legislation, regulations, and ordinances, and assists clients in navigating and building consensus around complicated and untested governance issues. His approach focuses on collaboration, education, and facilitation to align interests and achieve results. For this project, Greg will bring is knowledge and experience to support policy development and recommendations for updates to support the operational and performance goals of this project. Greg will lead STRATEGIC IMPLEMENTATION PLANNING SERVICES - TASK LEAD on this contract. Greg meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 7			
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).			
05/23 - Ongoing	CONNECTED AND AUTOMATED VEHICLE (CAV) WORKING GROUP DOTD Baton Rouge, LA Project Lead Lead coordination of connected and autonomous vehicles working group for Louisiana DOTD. Tasks include in-person quarterly meeting facilitation; development of programming for quarterly meeting, including identification of speakers; information gathering and dissemination around key national developments for CAVs; and managing steering committee. Goal of quarterly meetings is to provide engagement focused interaction between working group members.			
01/21 - 06/22	CONNECTED AND AUTOMATED VEHICLE POLICY, REGULATORY, AND LEGAL ANALYSIS New England Transportation Consortium Principal Investigator Project and research lead for analysis focused on development of regulatory framework for operation of connected and automated vehicles across state lines in the New England region. Project includes literature and regulatory review, recommendations development, report development, and strategy for dissemination of findings from project. Final deliverables also include draft memorandum of understanding to support continued collaboration between states to support safe deployment of automated vehicles in region.			
01/20 - 11/20	AUTOMATED VEHICLE TESTING PERMIT AND GUIDANCE Vermont Agency of Transportation Statewide, VT Project Lead Lead strategic analysis and guidance for finalization of automated vehicle testing permit and accompanying guidance. Project work included review and analysis of draft permit and guidance, assistance reviewing and responding to stakeholder comments during public review process, and support around finalization and approval. Also led development and implementation of virtual Vermont AV-Xchange Forum.			
09/21 - 12/21	ZERO EMISSION VEHICLE ROADMAP Maryland State Highway Administration Washington, D.C. Principal-in-Charge Managed team that provided Zero Emission Vehicle Roadmap to Maryland State Highway Administration. Roadmap includes recommended next steps over the next five years to incorporate Zero Emission Vehicle initiatives within Maryland State Highway Administration's management and operations.			
04/22 - 09/22	ELECTRIC VEHICLES STRATEGIC PLAN City-Parish of Baton Rouge Baton Rouge, LA Principal-in-Charge Managed team that provided EV Strategic Plan to City-Parish of Baton Rouge. Scope of work included stakeholder engagement and facilitation of in-person workshop, assessment of current policies and regulations impacting EVs, and development of final strategies to support EV goals and vision for City-Parish to support investment in EV infrastructure and fleet transition.			
06/22 - Ongoing	NCHRP 20-123(12) National Academy of Sciences Washington, D.C. Policy Analysis and Development Research and Technical Lead Serving as research and technical lead for development of strategic plan and supporting research roadmap for AASHTO joint subcommittee on System Mobility and Emerging Technologies. Scope of work includes literature review, survey development, stakeholder engagement, and development of strategies to support focus on system performance and operations within context of integration of emerging transportation technologies and through lens of state DOTs.			
08/21 - 06/22	SELF-DRIVING VEHICLE PUBLIC SURVEY STRATEGY AND IMPLEMENTATION Maryland State Highway Administration Washington, D.C. Principal-in-Charge Managing team that developed a strategy for a public survey focused on acceptance of self-driving vehicles across various modes and use cases. Findings and analysis from survey inform Maryland State Highway Administration strategy and planning around self-driving vehicles. Survey included focus on information gathering and education around self-driving vehicles, in addition to multi-modal considerations.			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Eric Plapper, AICP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Senior Associate	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	13	
DEGREE(S) / YEARS / SPECIALIZATION		Master of City and Regional Planning 2013 Transportation; BA 2010 History		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		AICP No. 33312 N/A 3/31/2025		
YEAR REGISTERED	2021	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Eric has led major TSMO, ICM, and CAV initiatives for the Federal Highway Administration (FHWA); state DOTs including Florida, Iowa, Tennessee, and Virginia; and municipal, transit, and MPO agencies. Eric specializes in helping agencies identify and scope TSMO, ICM, and CAV projects; collaborating with large stakeholder groups; and practical integration of emerging technologies as an extension of traditional ITS strategies. Eric will provide STRATEGIC IMPLEMENTATION PLANNING SERVICES for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/19 - 12/22	TSMO/CAV GENERAL ENGINEERING CONSULTING FLORIDA DOT STATEWIDE, FL Eric was the planning lead and served as a strategic advisor to executive leadership on this contract to implement FDOT's \$500M TSMO/CAV program. Led and supported dozens of task orders including: updates to the CAV Business Plan; development of program and project-specific performance measures; needs assessment and feasibility analysis for new CAV and ITS concepts; systems architecture, concept of operations, and requirements documents for 10+ projects; development of project scopes, cost estimates, and procurement materials and development of the Department's vehicle-to-everything data exchange platform; and development of training materials for Department staff.			
09/23 - Ongoing	ITS and Fiber Deployment Plan TDOT Nashville, TN ITS Plan Task Lead Eric serves as the ITS Plan task lead for this project to inform TDOT's future investments in ITS infrastructure. Participated in workshops with Region TMCs and TDOT headquarters to capture needs, identified overarching strategies, and developed project and program scoring process to align with statewide priorities.			
10/21 - 12/22	UPDATES TO THE TSMO DESK REFERENCE FHWA WASHINGTON, DC Eric was a technical subject matter expert to FHWA in updating the TSMO Desk Reference. Tasks included convening an external advisory panel comprised of TSMO leaders at state DOTs and MPOs; review of the entire document to recommend edits and new sections; and developing content to reflect new industry trends including multimodal trip planning, CAVs, and crowdsourced traveler information/big data.			
06/20 - 12/22	DES MOINES INTEGRATED CORRIDOR MANAGEMENT IOWA DOT GREATER DES MOINES AREA, IA Eric led the personal mobility work group, which consisted of municipalities, transit agencies, MPOs, human services, and economic development stakeholders. Outputs included the development of concept for an integrated mobility data platform that ingested data from Iowa DOT, municipal and transit agencies, and human services partners; provided complete trip support to travelers; and integration with ramp metering bus on shoulder operations.			
05/17 - 09/18	I-24 SMART CORRIDOR TDOT Nashville, TN Task Lead Eric contributed to the I-24 Smart Corridor deployment in Tennessee, which included new fiber connectivity, infrastructure-based connected vehicle technology, dynamic message signage, and upgraded and coordinated arterial signals to establish a smart, integrated corridor management system. Eric's support included developing the implementation plans, including the system architecture, concept of operations, and system requirements, for numerous deployments.			
01/19 - 09/19	2020-2040 ITS STRATEGIC PLAN TRIBOROUGH BRIDGE AND TUNNEL AUTHORITY (TBTA) NEW YORK, NY Eric led the development of all emerging technology components for TBTA's 20-year funding plan. Specific components included investments in communications infrastructure, traffic detection and incident management, advanced traffic management, and traveler information systems. Additionally, he made recommendations for two new programs for smart city initiatives and automated vehicle supportive infrastructure..			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Kate Fillin-Yeh	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Senior Associate	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	18	
DEGREE(S) / YEARS / SPECIALIZATION		MA 2006 Public Policy / Urban Planning; BA 2001 Architectural History & Theory/Urban Studies		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	An urban planner, policy-maker, and creative problem-solver, Kate has almost 20 years of transportation policy experience working for and with North American cities. Kate combines a background in persuasive, strategic communication with a passion for making cities and urban places work for the people who live there. Kate focuses on connecting innovative policy with practical real-world solutions. In her previous work as strategy director of a transportation non-profit, Kate worked with city transportation departments across the US and Canada to develop guidance on key transportation topics including Vision Zero & safety policy, urban bikeway design, shared micromobility, agency structure, safer vehicle design, emerging technologies and mobility data, transportation equity, and regulatory policy. Under Mayor Bloomberg and Commissioner Sadik-Khan, Kate worked at the New York City Department of Transportation where she designed and implemented Citi Bike, the nation's largest and most heavily used bike share program. Kate's work included system planning, RFP and vendor selection, and development of the City's extensive public engagement process. Also at NYCDOT, under Commissioner Trottenberg, Kate was a lead author of New York City's Vision Zero Action Plan, creating the policy framework to help bring traffic deaths in New York City to their lowest recorded levels. Kate will provide STRATEGIC IMPLEMENTATION PLANNING SERVICES on this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/24 - Ongoing	CONNECTED AND AUTOMATED VEHICLE (CAV) WORKING GROUP DOTD Baton Rouge, LA Project Support Kate supports Stantec's multi-disciplinary working group that works to guide and support DOTD's research, policy, and operational priorities for CAVs that align with DOTD goals and objectives for integrating Intelligent Transportation Systems (ITS). Stantec leads and coordinates Quarterly and Subcommittee Meetings; focuses on information sharing through an online portal and bi-weekly updates; supports education through speakers brought in as part of the Quarterly meetings; and, fosters interactive discussion between operational divisions within DOTD.			
06/18 - 08/19	MANAGING MOBILITY DATA Municipal Lawyers Association Project Lead Working in partnership with the International Municipal Lawyers Association, Kate led the development and writing of Managing Mobility Data, a policy guide for governments that sets forth a common framework for understanding, sharing, managing, and protecting mobility data. Managing Mobility Data sets out a principles-based approach to data management, recognizing the potential for privacy issues that come with new forms of transportation data and technology.			
03/18 - 08/19	BLUEPRINT FOR AUTONOMOUS URBANISM 2ND EDITION NACTO's Project Lead / Co-Author Kate led the development and writing of the 2nd Edition of NACTO's Blueprint for Autonomous Urbanism, a groundbreaking policy vision for how autonomous technologies can best be integrated into transportation networks in ways that are sustainable, equitable, safe, and efficient. Focusing on policy levers such as pricing, data privacy, and curb & freight management, as well as street design, the Blueprint shows how governments can put people first to best harness the potential of technology to reduce emissions, decrease traffic fatalities, and increase economic opportunity.			
01/18 - 05/19	GUIDELINES FOR REGULATING SHARED MICROMOBILITY Maryland State Highway Administration Washington, D.C. Principal-in-Charge Managed team that provided Zero Emission Vehicle Roadmap to Maryland State Highway Administration. Roadmap includes recommended next steps over the next five years to incorporate Zero Emission Vehicle initiatives within Maryland State Highway Administration's management and operations.			
01/08 - 10/14	CITI BIKE PLANNING ENGAGEMENT & IMPLEMENTATION New York, NY Project Lead As Project Lead, Kate planned, designed, and implemented New York City's Citi Bike system, the nation's largest and most heavily used bike share program. Kate's work included scoping, system planning, RFP and vendor selection, and creation of a contract oversight unit within NYC DOT. In addition, Kate developed and oversaw NYC DOT's bike share public engagement efforts, comprising of over 150 public meetings and stakeholder engagement events, New York City's most extensive public engagement process to date.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Jarrel King	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Transportation Designer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2022 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Jarrel is a Transportation Designer at Stantec who graduated with Honors from Howard University in 2022. While at Howard, he served as a Resident Assistant, and was on the Executive Board for the National Society of Black Engineers, as the membership chair and programs chair. He has experience using various Autodesk and Bentley Systems software such as: Civil 3D, Open Roads Designer, and Concept Station. Jarrel will provide STRATEGIC IMPLEMENTATION PLANNING SERVICES on this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/24 - 04/24	PENINSULA EXPRESSWAY Dundalk, MD Transportation Designer Jarrel used MicroStation to draft Maintenance of Traffic plans for Phase 2 of the Peninsula parkway bridge maintenance. Jarrel designed the construction site according to multiple MDSHA standards, and built out the file even more to show greater lengths of the construction area.			
07/22 - 01/24	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION NEW TOLL COLLECTION SYSTEM AND E-ZPASS CUSTOMER SERVICE CENTER Ohio Turnpike and Infrastructure Commission Transportation Designer Jarrel assists project managers track and facilitate deliverables to the team. Other responsibilities include being involved in proofreading and revising deliverable documents, while ensuring that all items are synced to our internal database.			
07/23 - 08/23	TACOMA NARROWS BRIDGE T&R STUDIES WSDOT Transportation Designer Jarrel worked alongside a project manager to create a new model for the TNB forecast. He compiled data from multiple sources by using Excel macros to pull the data. The data was then calibrated and forecasted by monthly traffic, potential, and gross revenue. The model accounts for seasonal patterns, payment type, and axle splits.			
09/23 - 12/23	BCTRA Maryland State Highway Administration Brazoria County, TX Transportation Analyst Created a traffic count database with over 50+ locations Each location had at least two days worth of data and compared to the 2019 counts using easy to read visuals Used Power BI to reorganize and summarize transaction data.			
01/24 - 03/24	I-405/SR-167 EXPRESS TOLL LANES PLANNING LEVEL STUDY, INVESTMENT GRADE STUDY WSDOT Modeler Jarrel played a big role in the modeling effort of this project. He was tasked with running various models using Cube Voyager. Jarrel used his judgment to choose the best iteration for each corresponding run. Jarrel was able to learn how to overwrite individual hour results on the fly as well as change the methodology of runs with quick notice.			
01/24 - Ongoing	CAV WORKING GROUP SUPPORT DOTD Statewide, LA Transportation Analyst Each week, Jarrel sifts through approved articles, compiling them into a bi-weekly update. Through concise summaries and insightful analysis, he illuminates the crucial developments shaping the transportation sector, providing valuable insights for the group.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Diane Quigley, AICP, CFM	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Senior Project Manager	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	36	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1987 Geology; Master of Urban and Regional Planning 1995		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Diane served as an in-house consultant Project Manager at the Florida Department Transportation (FDOT) where she assisted in the development of ITS Master Plans for the states five interstate corridors. She was responsible for the development of the first ITS Cost Feasible Plan which funded the District's projects for the deployment of ITS systems over a 10-year period for inclusion in the FDOT Work Program. Diane also assisted in the development of Concept of Operations Plans for the corridors and a statewide ITS architecture. She developed a tracking system identifying the deployment of ITS devices statewide, including cameras, dynamic message signs, operation centers, ramp metering and fiber optic locations. Diane will serve as STRATEGIC IMPLEMENTATION PLANNING SERVICES on this contract. Certifications: American Institute of Certified Planners, 1997 and Certified Floodplain Manager, 2022.			
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).			
09/00 - 07/04	INTERSTATE ITS MASTER PLANS FDOT Tallahassee, FL Senior Planner Diane assisted in the development ITS Master Plans for 5 major interstate corridors which recommended deployment of ITS throughout the corridor Freeway Incident Management System, Advanced Traveler Information Systems, Advanced Transportation Management Systems, Telecommunications Infrastructure and Regional Traffic management Centers, which was subsequently funded in FDOT's ITS 10-Year Cost Feasible Plan and included Concept of Operations, Systems Engineering Plans and various other documents to further support the recommendations.			
05/09 - 02/17	GRANT MANAGER FOR METROPOLITAN & STATEWIDE PLANNING AND NON METROPOLITAN TRANSPORTATION PLANNING GRANTS FOR THE FDOT Tallahassee, FL Project Manager Responsible for applying, monitoring, managing and invoicing of projects as part of the grant. The Department received over \$2 Million per year in funds for the completion of transit research, planning, development and technology projects. Diane coordinated with 31 transit agencies and 7 Districts in developing project approaches, scopes of work and project schedules to assist transit agencies and MPOs in improving transit planning and delivery in the state of Florida. She and her staff oversaw roughly 20 projects per year under this grant program.			
09/16 - 02/17	TRANSPORTATION ASSET MANAGEMENT PLAN FDOT Tallahassee, FL Steering Committee Member As a representative from the FDOT Freight, Logistics and Passenger Operations Office, Diane served on the Steering Committee for the development of the first Transportation Asset Management Plan for FDOT. This Plan was developed in collaboration with several Offices within FDOT including Maintenance, Roadway Design, Work Program, Policy Planning and Administration to document and identify FDOT service delivery functions and identify potential risks that may disrupt these processes. The project included the development of a risk register, gap analysis and the establishment of targets and performance measures in compliance with the Federal Highway Administrations Asset Management requirements.			
09/15 - 11/15	TRANSIT SIGNAL PRIORITY TRAINING AND FACILITATION FDOT Statewide, FL Project Manager, Training Facilitator and Course Developer As the State Transit Planning Administrator for FDOT, Diane coordinated with Traffic Operations staff and consultants to develop a Transit Signal Priority (TSP) Training class for local governments and FDOT District engineers for Professional Engineering credits. As primary facilitator, Diane led the development of course materials, outline, training dates and locations. The course was designed to present the benefits of TSP, and how TSP can be implemented without impacting the efficiency of signal operations and intersection movements. This class was included in FDOTs training course manual for future hosting. Diane coordinated with FDOT offices and local governments to reserve venues, confirm logistics and develop course materials and agendas. She led staff in preparing training announcements, invitations and distribution lists.			
09/00 - 07/04	ITS COST FEASIBLE PLAN FDOT Statewide, FL Project Manager Project Manager for the development of the first ITS Cost Feasible Plan. A program of projects was created to implement and fund the deployment of ITS projects along the five major interstate corridors in Florida. This effort entailed estimating project costs, coordinating with the FDOT Districts and the Program Development Office in phasing, scheduling, and programming of over \$700 million of ITS projects.			

FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Susan Marlow, GISP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	GIS Lead	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	3	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2018 General Business		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		Certified Geographic Information Systems Professional (GISP) #90479		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Susan is a senior principal with more than three decades, leading and managing statewide transportation geospatial projects. She has been the program manager for over 250 geospatial projects in various jurisdictions spanning over 39 states. Susan leverages this experience to provide insight and leadership to Stantec's CAV / Smart Mobility team, working on projects such as the Greater Nashville Regional Council's Smart Mobility Assessment, Active Aurora, and GoMentum. Susan has a deep understanding of bridging the gap between her client's existing technology and identifying needs for process and technological improvements. Susan will serve as GIS SUPPORT SERVICES - TASK LEAD on this contract. Certified Floodplain Manager, 2023.			
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).			
06/17 - Ongoing	TDOT ITS CONTRACT TDOT Statewide, TN Client Manager Susan is the client manager for this project awarded to Stantec in June 2017 and again in 2020. This is a three year open ended IDIQ contract with optional 2 year extension. Stantec responsibilities include System Engineering Analysis for the replacement of the incident management software in the Traffic Management Centers throughout the state, Integrated Corridor Management, Active Arterial Management, fiber optic planning and design and other ITS related assignments. Susan's GIS background was useful in determining data sources, data feeds and GIS integration.			
06/18 - Ongoing	TENNSMART CONSORTIUM TDOT Statewide, TN Stantec Representative / Founding Member Susan is the Stantec representative as a founding member of this organization, and elected to the board of directors in 2021. She has been actively supporting CAV activities throughout the State of Tennessee and across the region. TENNSmart is a collaboration between government, universities, research entities, OEM, and private corporations dedicated to Intelligent Mobility.			
07/17 - 07/19	ROCKEFELLER 100RC GLOBAL SUMMIT – THE ROLE OF CAV TECHNOLOGIES IN RESILIENCE New York, NY Organizer Susan organized a Design Spark for the 100RC Global Summit in New York City in July 2017. The Design Spark focused on Nashville, TN, USA, Seattle, WA, USA and Medlin, Columbia. Each city brought a problem statement to the discussed in light of transportation technology and resilient strategies.			
09/17 - Ongoing	TENNESSEE NATIONAL DISASTER RECOVERY COMPETITION State of Tennessee Statewide, TN Project Manager As project manager for the State of Tennessee National Disaster Recovery Competition (NDRC) Rural by Nature grant submittal to HUD, Susan attended the Rockefeller Resilience Academy for the Phase 2 Application process. She helped to organize the NDRC grant writing process for the state and their sub grantees, led key stakeholder meetings, helped to create CDBG standardized budgets, timelines, and scope of services for all sub grantees. The state was awarded 44.5 million dollars under the program which included 10 projects in the West Tennessee area. After the grant award Susan, organized metrics workshops for the 10 sub grantees in their local communities, worked to finalize sub grantee budgets and contracts. She attended the Rockefeller NDRC Grant Implementation Academy in NYC. Susan also helped the state input their Action Plan into DRGR and walked through the approval process with HUD. She As the grant is implemented Susan will continue to work with ECD and their sub grantees to administer the grant. She is also helping the State of TN "institutionalize resilience in the state through their Resilience Council. The Resilience Council is make up of 14 state agencies, 2 federal agencies and several universities. Part of the program management will be the development of a project management system, Tennessee Resiliency Enterprise Planning System (TREPS).			
07/19 - Ongoing	TDOT ON-CALL CONSULTANTS FOR TRANSPORTATION PLANNING SERVICES TDOT Statewide, TN Contract Manager and Principal-in-Charge Serves as Contract Manager and Principal-in-Charge for the On-Call Consultants for Transportation Planning Services contract with TDOT in March 2020. The on-call project is used by TDOT to implement various planning efforts throughout the State for local MPO, municipalities, as well as statewide planning needs. Stantec is currently working on the Cleveland Long Range Transportation Plan, Athens City Wide Mobility Plan and Gainesboro Community Mobility Plan.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Leah House	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	5	
TITLE	Senior GIS Analyst Programmer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	4	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2014 Geographic Techniques (Minor - Computer Science & Geology)		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	<p>Leah has more than nine years of experience in the environmental engineering and technology fields. She develops web, desktop, and GIS applications using various technologies such as C#, VB.NET, C++, JavaScript, CSS, SQL, jQuery, and ArcObjects. Leah has extensive experience with ESRI ArcMap automation, service-driven web application development, and database design and development. She has supported engineering and GIS departments in the creation of GIS tools to automate various hydrologic processes using API, data feeds, as well as managing Geospatial servers in both open and proprietary systems. Leah meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 12</p>			
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).			
01/20 - 03/24	<p>FLOOD MANAGER Software Application Development Lead Developer Lead Developer and Product Owner for Digital Solutions' Flood Manager product. Flood Manager is a secure, cloud-based platform that quickly loads and processes a variety of flood models with automated quality analysis, data post processing, and reporting. A cloud-based platform that offloads computation from desktops to the cloud, enabling multiple models and simulations to be executed in parallel. Models groundwater, surface water, and in the near future, coastal flood scenarios to offer communities mitigation alternatives. With decisions enhanced by Flood Manager, communities can be better educated about flood risk and prepared for mitigation; thus, providing comprehensive and consistent quality reporting that supplies validity of the results and outputs. This product is on-going. Leah House helped to devise and develop the product and continues to maintain it with continuous new features and system upgrades. Leah ensures that all releases are developed, tested, revised, and published. She utilizes and leads by working on Atlassian's Jira Software platform for Development Sprints, task creation and assignment, and backlog organization. Leah also contributes by writing and assisting the Product Support Analyst Stantec Design Operations (SDO) documentation such as Sprint Processes.</p>			
01/19 - 10/21	<p>CFRPM GIS TOOLS FDOT - District 5 FL Application Developer Application Developer for a GIS tool that helps travel demand modelers edit and check the GIS data inputs for the Central Florida Regional Transportation Model outside of the modeling software. The travel demand modeling (TDM) software provides tools with similar functionality; however, the tools are limited and do not assist the user with verifying the topology of the network. Furthermore, licenses for the TDM are expensive and therefore limit the users that can perform these edits. Allowing these functions to be performed in GIS increases the pool of users and opens up the editing process to a wider range of geoprocessing tools.</p>			
12/18 - 12/19	<p>STATEWIDE TRAFFIC MANAGEMENT CENTER UPGRADE TDOT Statewide, TN GIS Analyst Stantec, in coordination with the Southwest Research Institute (SwRI) as their subconsultant, was tasked by TDOT to provide engineering and deployment support services to integrate ActiveITS into their four Traffic Management Centers (TMCs) across the state. As part of this project Leah helped configure automatic vehicle location tracking for TDOT help trucks, built on Cisco's Edge Computing platform. Leah also developed GIS tools to help edit travel data for the new TDOT database.</p>			
01/17 - 11/18	<p>ADECA OWR WEB AND APPLICATION DEVELOPMENT ALABAMAFLOOD.COM Statewide, AL Lead Developer Leah was the lead developer of alabamaflood.com, the state's GIS-based floodplain mapping website which has received praise from stakeholders across the state. The website provides a platform for floodplain management, including flood elevation determinations for use on elevation certificates and Letter of Map Amendments (LOMAs). She helped design and develop a public .NET application hosted via IIS in a VM. She setup and maintained a Geospatial Server on a VM. The services deployed within the ArcGIS Server were utilized on the front end of the application using ESRI's Javascript API.</p>			
12/14 - Ongoing	<p>HYDROLOGY AND HYDRAULICS (H&H) TOOL DEVELOPMENT ALABAMA STATE EMERGENCY MANAGEMENT AGENCY (SEMA) Statewide, AL Technical Lead Technical lead on several SEMA GIS tools dealing with H&H engineering processes. These ArcObjects/C#.NET tools include Stream Modeling and Automated Risk Tool (SMART), Survey tool, Database Verification toolbar, and HEC-RAS Editor. Leah worked with engineers to develop and update tools to help automate their workflow.</p>			

FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Danielle Dami, CFM	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	GIS Lead	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	3	
DEGREE(S) / YEARS / SPECIALIZATION		BA 2017 Geography		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Danielle has over seven years of broad experience in Geographic Information Systems (GIS) in support of planning, water resource engineering, and asset management projects. Technical experience ranges from data assessment, database design, system integration, technical documentation, and data delivery. She works extensively with the Federal Emergency Management Agency (FEMA), as well other State Emergency Management offices, on the RiskMAP program. She has expertise in Tools Development where she collaborates with engineers, application developers and project managers to identify solutions to gain efficiencies on flood study projects. Danielle has experience performing risk assessment modeling and analysis with Hazus Multi-Hazard loss estimation and mitigation software, HEC-FIA and LifeSim. Danielle is also proficient in data procurement, asset management and working with ESRI's ArcGIS software and web application. Danielle will serve as GIS SUPPORT SERVICES on this contract. Certified Floodplain Manager, 2023.			
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).			
08/23 - Ongoing	ITS AND FIBER DEPLOYMENT PLAN TDOT Statewide, TN GIS Lead Danielle oversaw the creation of GIS database that houses the Intelligent Transportation System assets inventoried for this project, including devices such as CCTV cameras and Vehicle Detection Sensors, cabling infrastructure such as Power Lines and Fiber Optic Cables, safety analysis results throughout Nashville, Knoxville, Memphis, and Chattanooga. For each feature class that was collected, ensured accurate attributes were collected and in accordance with the existing feature classes.			
08/19 - 02/21	3D VISUALIZATIONS FOR FEMA PARTNERS (CALIFORNIA, IOWA CTP, KDOW) FEMA Nationwide, USA Project Manager Danielle is responsible for managing the development, funding, and scheduling for the 3D Flood Hazard Visualization Model. Her team has created more than ten 3D visualization demos that utilizes 3D gaming technology and non-regulatory FEMA Risk MAP products to allow users a real look at potential natural hazard impacts by providing the opportunity to virtually walk through neighborhood streets, viewing water elevations with respect to homes, vehicles, and community structures.			
08/21 - 06/23	AERONAUTICS DIVISION - AIRFIELD INVENTORY (TENNESSEE) TDOT Statewide, TN GIS Lead Danielle oversaw the conversion of CAD drawings of airport assets inventoried for this project, such as pavement edges, buildings, runways, and taxiways into GIS features that fit the FAA data schema. She oversaw the architecture of the ArcGIS Online web applications that showcase those assets in both 2D and 3D alongside third-party resources to create a comprehensive place to view and analyze airport assets.			
08/18 - 07/19	ADECA OWR WEB AND APPLICATION DEVELOPMENT ALDOT Statewide, AL GIS Lead Danielle served as a GIS Lead responsible for publishing effective and current Risk Map studies on the GIS web viewer called AlabamaFlood.com for the state of Alabama. Maintained and updated regulatory and nonregulatory data for the website.			
03/22 - 10/23	FLOOD PREPAREDNESS City of Chattanooga Chattanooga, TN GIS Lead and HEC-LifeSim Danielle created velocity and depth grids for various flooding events for the Chattanooga Creek, North Chickamauga, and South Chickamauga in HEC-RAS and applied backwater from other streams in ArcPro. She verified and updated structure points throughout the City of Chattanooga for LifeSim model. Reviewed the National Structure Inventory (NSI) data and identified and added additional structures, appraisal values were reviewed and adjusted to reflect current property values, and property values were averaged across multistructure-multifamily properties. Reviewed the HEC-LifeSim models that were created for Chattanooga Creek, North Chickamauga, and South Chickamauga. Created an ArcGIS Online web application to visualize the results of the Life SIM model for three streams that flow through Chattanooga. This included representing structures that would be impacted and estimated damages and inundation extents developed from the depth grids. The web application includes a tool built to show total estimated damages for a user-defined area per stream and event.			

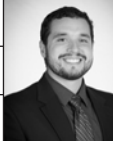
FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Caitlyn Mills	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	4	
TITLE	GIS Analyst	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BA 2019 Geography		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Caitlyn serves as a GIS analyst with a broad experience in Geographic Information Systems (GIS) in support of transportation, planning, water resource engineering, and asset management projects. Technical experience ranges from data assessment, database design, system integration, technical documentation, and data delivery. She works extensively with the Federal Emergency Management Agency (FEMA), as well other State Emergency Management offices, on the national flood map modernization program and the new RiskMAP program. Caitlyn is also proficient in data procurement, asset management, and working with ESRI's ArcGIS software and web application. Caitlyn will provide GIS SUPPORT SERVICES on this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23 - Ongoing	ITS AND FIBER DEPLOYMENT PLAN TDOT Statewide, TN GIS Analyst Caitlyn designed and compiled the GIS database that houses the Intelligent Transportation System assets inventoried for this project, including devices such as CCTV cameras and Vehicle Detection Sensors, cabling infrastructure such as Power Lines and Fiber Optic Cables, safety analysis results, and prioritized projects identified during this project for TDOT to implement in the coming years. She also created an ArcGIS Online web application and dashboard that showcases these assets for the client and will be deployed in their ArcGIS Enterprise environment.			
08/21 - 06/23	AERONAUTICS DIVISION - AIRFIELD INVENTORY (TENNESSEE) TDOT Statewide, TN GIS Analyst Caitlyn was responsible for converting CAD drawings of airport assets inventoried for this project, such as pavement edges, buildings, runways, and taxiways into GIS features that fit the FAA data schema. She also created ArcGIS Online web applications that showcase those assets in both 2D and 3D alongside third-party resources to create a comprehensive place to view and analyze airport assets. She led a demo and training session for the client on these web applications.			
03/22 - 10/23	FLOOD PREPAREDNESS City of Chattanooga Chattanooga, TN GIS Analyst Caitlyn was responsible for creating an ArcGIS Online web application to visualize the results of the Life SIM model for three streams that flow through Chattanooga. This included representing structures that would be impacted and estimated damages and inundation extents developed from the depth grids. The web application includes a tool built to show total estimated damages for a user-defined area per stream and event.			
02/22 - 01/24	SANTA BARBARA PROBABILITY STUDY FEMA Santa Barbara County, CA GIS Analyst Caitlyn was responsible for collaborating with engineering to develop the spatial files for the floodplain mapping task in Santa Barbara, California. She also created the Changes Since Last Firm database, a non-regulatory product. She showcased these two datasets together in an ArcGIS Online web viewer so the community could view the new data and easily see what changed since the last study.			
09/22 - 09/23	GUAM COASTAL ENGINEERING STUDY FEMA Guam GIS Analyst Caitlyn was responsible for collaborating with engineering to finalize a coastal database with field reconnaissance locations and photo attachments for each site. She also created an ArcGIS Online web application to view these field reconnaissance sites, the site description, and all field photos associated with that site and their respective descriptions.			



FIRM EMPLOYED BY		Vectura Consulting Services, LLC		
NAME	Brin Ferlito, PE, PTOE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	8	
TITLE	Principal	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	27	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1988 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 25383 LA 09/30/2025		
YEAR REGISTERED	1993	DISCIPLINE	Civil Engineering PTOE / Exp. 9/9/2024	
Contract role(s) / brief description of responsibilities	ITS Design Engineer. Brin will provide SYSTEMS ENGINEERING ANALYSIS (SEA) for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/21 - Ongoing	EBR COMPUTERIZED TRAFFIC SIGNAL, PHASE VB DOTD H.007160 Baton Rouge, LA Task Leader Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.			
07/19 - Ongoing	MOVEBR NEW CAPACITY PROJECTS PROGRAM MANAGEMENT Baton Rouge, LA Lead Traffic Engineer Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects			
07/19 - Ongoing	DOTD BELLE CHASSE BRIDGE & TUNNEL REPLACEMENT PPP DOTD H.004791 Belle Chasse, LA Project Manager Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by DOTD.			
09/20 - 12/21	LA 30 ROUNDABOUTS AT TANGER I-10 DOTD H.010960.5 Ascension Parish, LA Project Manager Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at the Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.			
07/18 - 04/19	LA 1 PEDESTRIAN CROSSWALK STUDY AND TRAFFIC / PEDESTRIAN SIGNAL DESIGN WEST BATON ROUGE PARISH Addis, LA Brin developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.			
09/17-04/18	US 11 AT US 190 BUS. (FREMAUX AVE.) PEDESTRIAN CROSSWALK STUDY AND TRAFFIC/PEDESTRIAN SIGNAL EQUIPMENT DESIGN Slidell, LA Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.			

08/15 - 05/17	<p>ENHANCING GUIDANCE FOR EVACUATION TIME ESTIMATE STUDIES (Nuclear Regulatory Commission Rockville, MD)</p> <p>Brin conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETes. Specifically, Brin was the lead VISSIM modeler for the "large" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over 8 hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.</p>
04/14 - 12/14	<p>SIGNAL DESIGN FOR N. SHERWOOD FOREST DR. WIDENING PROJECT DOTD H.002301 Baton Rouge, LA Project Engineer</p> <p>As the project engineer, Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.</p>
07/12 - 03/14	<p>EBR 03-TS-CI-0026 CE&I FOR EBR TRAFFIC SIGNAL SYSTEMS JEFFERSON HIGHWAY CONSTRUCTION Baton Rouge, LA Project Resident Engineer</p> <p>Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as all items on the EBR project closeout checklist.</p>
07/08 - 09/09	<p>SPN 013-05-0043 CE&I FOR EBR TRAFFIC SIGNAL SYSTEMS PHASE IV CONSTRUCTION Baton Rouge, LA Project Resident Engineer</p> <p>Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.</p>
09/13 - 04/14	<p>S.P. 700-99-0477 JEFFERSON HWY. SIGNAL DESIGN Baton Rouge, LA</p> <p>Brin designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans and specifications.</p>
03/05 - 11/05	<p>AIRLINE HWY WIDENING SPN 700-99-0332 Baton Rouge, LA</p> <p>Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.</p>
02/03 - 01/04	<p>EBR TRAFFIC SIGNAL SYSTEMS PHASES IV AND V SPN 700-17-0172 Baton Rouge, LA Project Engineer</p> <p>Brin was the project engineer for the design of 66 signalized intersections on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.</p>


FIRM EMPLOYED BY		Vectura Consulting Services, LLC			
NAME	Laurence Lambert, II, PE, PTOE, PTP		YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER		8
TITLE	Principal		YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)		18
DEGREE(S) / YEARS / SPECIALIZATION			MBA 2018; MS 2006 Civil Engineering (Transportation Focus); BS 1997 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE			PE No. 29901 LA 03/31/2026		
YEAR REGISTERED	2002	DISCIPLINE	Civil Engineering PTOE / Exp. 2/3/2025		
Contract role(s) / brief description of responsibilities	ITS Design Engineer. Laurence will provide SYSTEMS ENGINEERING ANALYSIS (SEA) for this contract.				
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/23 - Ongoing	CONNECTED & AUTONOMOUS VEHICLES (C/AV) TEAM AND WORKING GROUP SUPPORT DOTD H.012845.1 Statewide, LA Team Member Laurence is a member of the team to develop new policies and legislation related to C/AV.				
01/23 - 02/24	ALEXANDRIA ITS PHASE 2 DOTD H.011504 Alexandria, LA Project Manager Project Manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.				
03/21 - 03/22	LAFAYETTE REGIONAL ITS ARCHITECTURE UPDATE DOTD H.014513.1 Lafayette, LA Laurence completed an ITS System Inventory, identified all existing and future agreements between stakeholder organizations participating in the ITS operations in the Lafayette region, and updated the strategy for maintaining the regional ITS architecture.				
10/21–03/22	I-10 ITS SCOTT TO LAKE CHARLES DOTD H.013256.5 Lake Charle, LA Lead Traffic Engineer Lead Traffic Engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.				
09/18 – 02/19	I-110 ITS DEPLOYMENT SYSTEMS ENGINEERING ANALYSIS DOTD H.013261.1 Task Leader As a sub-consultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.				
06/12-12/12	RAMP METERING STUDY OF I-10 SEGMENT East Baton Rouge and Ascension Parishes, LA Project Manager Laurence conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included DOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.				
07/11 – 07/15	RETAINER CONTRACT FOR ITS TRAFFIC INCIDENT MANAGEMENT (TIM) PROGRAM TRANSPORTATION MANAGEMENT CENTERS (TMC'S) OPERATIONS STAFFING SUPPORT AND SYSTEMS ENGINEERING (SE) DOTD H.4400001465 Statewide, LA Project Manager Laurence was the overall project manager of this multi-year, \$15,000,000 contract that included providing staffing support, developing Standard Operating Procedure Manuals, Traffic Incident Management program support, ramp meter feasibility and design, TMC Concept of Operations, ITS system requirement documentation and Systems Engineering Analysis and Documentation. Laurence coordinated with the DOTD and TMC staff at the following TMC locations: DOTD Headquarters Annex Building, Baton Roue TMC on Harding, New Orleans, Shreveport, and Houma.				

03/10 – 06/10	BONNET CARRE SPILLWAY SPEED STUDY New Orleans, LA Project Manager DOTD asked Laurence to analyze the existing speeds on this facility and various forms of enforcement to ensure safety. Laurence led our efforts for this project, which consisted of a speed study to provide data to the DOTD managers to examine the current speed limit on the Spillway. We investigated other means of speed-limit enforcement, variable speed limits applicability, and managed lane options. 50%, 85%, and 95% speed analyses were performed with the speed data.
08/09 – 12/09	I-12 RAMP METERING PUBLIC OUTREACH Baton Rouge, LA Laurence prepared exhibits and 3-D models and facilitated three public meetings to educate the public about ramp metering and its implementation. Several stakeholder meetings were held to educate the elected officials and civic groups. Laurence gave a formal presentation at each meeting to describe the benefits of ramp meters and the project specifics.
07/08 – 07/11	SPN 700-99-0413 RETAINER CONTRACT FOR ITS TRANSPORTATION MANAGEMENT CENTERS Project Manager Laurence was the overall project manager of this 3-year contract that included providing staffing support, developing Standard Operating Procedure Manuals, Traffic Incident Management program support, ramp meter feasibility and design, TMC Concept of Operations, ITS system requirement documentation and Systems Engineering Analysis and Documentation. Laurence coordinated with the DOTD and TMC staff at the following TMC locations: DOTD Headquarters Annex Building, Baton Rouge TMC on Harding, New Orleans, Shreveport, and Houma.
01/07 – 08/07	I-12 RAMP METERING STUDY Baton Rouge, LA Project Manager Under the ITS retainer contract, Laurence provided analysis and evaluations of potential ramp metering at six interchanges along this corridor. The scope also included analysis of existing traffic conditions, evaluation of proposed solutions, and creation of micro-simulation models of existing and proposed conditions. An existing micro-simulation model was obtained from DOTD to analyze and visually represent the existing traffic conditions. The existing conditions model was calibrated and used as a base to develop models of ramp metering. Laurence presented the findings to DOTD, including an overview map of the interchange area, a schematic of existing volumes, a Micro-simulation of the existing conditions, a summary table of LOS for existing conditions, micro-simulations of proposed solutions, and a summary table of LOS for each solution. Laurence also submitted a formal report of the findings.
03/06 – 10/06	NEW ORLEANS REGIONAL TRANSPORTATION MANAGEMENT CENTER SEA Project Manager Laurence served as the project manager for the Laurence ITS Design Team that handled the New Orleans Regional TMC project. Laurence provided the Systems Engineering Analysis (SEA) for the operations of the new TMC, which included a conceptual layout of the RTMC data, audio / video, personal computers, and computer equipment including wiring.


FIRM EMPLOYED BY		Vectura Consulting Services, LLC			
NAME	Reece Rodrigue, PE, PTOE, RSP1		YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER		4
TITLE	Project Traffic Engineer		YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)		7
DEGREE(S) / YEARS / SPECIALIZATION		BS 2013 Civil Engineering			
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 42074 LA 03/31/2026			
YEAR REGISTERED	2017	DISCIPLINE	Civil Engineering PTOE / Exp. 7/17/2025		
Contract role(s) / brief description of responsibilities	ITS Design Engineer. Reece will provide SYSTEMS ENGINEERING ANALYSIS (SEA) for this contract.				
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/23 - Ongoing	CONNECTED & AUTONOMOUS VEHICLES (C/AV) TEAM AND WORKING GROUP SUPPORT DOTD H.012845.1 Statewide, LA Team Member Reece is a member of the team to develop new policies and legislation related to C/AV.				
06/23 - Ongoing	MONROE PHASE 3 SEA DOTD H.011507.1 Monroe, LA Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.				
01/23 - 02/24	ALEXANDRIA ITS PHASE 2 DOTD H.011504 Alexandria, LA Project Engineer Project Engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.				
06/22 - 02/23	ITS FIBER MANAGEMENT SYSTEM DATA COLLECTION DOTD H.012381.5 Reece performed the field observations for 40 sites to verify the ITS FMS and inventory services.				
04/20 - Ongoing	BELLE CHASSE BRIDGE & TUNNEL REPLACEMENT PUBLIC-PRIVATE PARTNERSHIP PROJECT (P3) DOTD H.004791 Belle Chasse, LA Responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the anticipated sequence of construction. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece produced the traffic impact analysis portion of the Traffic Management Plan that was also used in planning for the permanent and temporary signal timing plans. He produced the permanent signal plans for the LA 23 intersections at Engineers Rd. and at Burmaster St. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. Reece reviewed and approved shop drawings that were submitted by the contractor for use in construction.				
01/21 - 05/21	I-10 ITS SCOTT TO LAKE CHARLES DOTD H.013256 Lafayette, Acadia, and Jefferson Davis Parishes, LA Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using DOTD's Bid Tabulation and Cost Estimating Tool.				
07/21 - Ongoing	EBR COMPUTERIZED TRAFFIC SIGNAL, PHASE VB DOTD H.007160 Baton Rouge, LA Reece is part of the team responsible for Construction Engineering and Inspection. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.				
09/20 - 12/21	4 ROUNDABOUT: US 171 AT BOONE ST. DOTD H.011909.5 Vernon Parish, LA Reece is an essential design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.				
09/20 - 12/21	LA 30 ROUNDABOUTS AT TANGER I-10 DOTD H.010960.5 Ascension Parish, LA Design Engineer Design Engineer who assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales. Project consisted of eight proposed construction phases. He assisted in calculating temporary pole heights, determining placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.				

FIRM EMPLOYED BY		Intelligent Transportation Systems LLC (ITS LLC)		
NAME	Jonathan Fox, PE, PTOE, PMP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	8	
TITLE	Principal	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	14	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2003 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		P.E.0033277 / LA / Exp. 09/30/25		
YEAR REGISTERED	2007	DISCIPLINE	Civil; PTOE 2329 / Exp. 11/07/2025; PMP 1812148 / Exp. 04/28/2027	
Contract role(s) / brief description of responsibilities	<p>Jonathan has over 20 years of experience in traffic engineering and intelligent transportation systems. He currently serves as Principal at ITS LLC. His background includes traffic studies and assessments, traffic signal design, and ITS systems engineering and architecture. Jonathan's ITS-related experience includes system diagnostics and troubleshooting, system testing, management and operations, and systems maintenance. He led the design and implementation of the first adaptive traffic signal system in Louisiana and continues to be a leader in this specialty. Jonathan's varied experiences in design, ITS, traffic engineering, and program management make him an asset to the team managing the ITS ME&I program development and implementation. Jonathan will provide INDEPENDENT VERIFICATION & VALIDATION and STRATEGIC IMPLEMENTATION PLANNING SERVICES. Jonathan meets the Minimum Personnel Requirements (MPRs) #9</p> 			
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).			
08/15 - 07/19	SASOL LAKE CHARLES CHEMICAL PROJECT – ADAPTIVE TRAFFIC SIGNAL SYSTEMS West Lake, LA Lead Traffic Engineer Lead Traffic Engineer on new traffic signal designs, upgrades, communication design, and integration. He oversaw developing traffic signal plans, simulation models, communication layouts, network design, surveillance, travel time management, and permit applications. Six of these intersection upgrades were integrated by his team as the first Adaptive Traffic Signal System deployed in Louisiana (System A). Jonathan has overseen the design, implementation and integration of the Sasol System B (LA 108 signal corridor) as well as LA 27 (Beglis Rd.) @ LA 379 (Houston Rive Rd.). These were constructed and the adaptive functionality was turned on in July, 2019. These intersection designs used stop bar and setback radar detection as well as wireless and cellular communications. Efforts for Sasol also included design and construction support for a temporary traffic signal on Old Spanish Trail at Prater Road.			
06/18 - 07/19	US 90 ADAPTIVE CORRIDOR Westlake, LA Project Manager & Design Lead Jonathan has served as the Project Manager and overall Design Dead for the US 90 adaptive traffic signal corridor in Westlake, LA. Designs included preparing updated traffic signal inventory (TSI) forms as well as communications support of two isolated traffic signals. Equipment included in the design consisted of new radar detection and unlicensed wireless communications. Jonathan oversaw the integration of the intersections into the adaptive system in Lake Charles.			
12/14 - Ongoing	DOTD ITS MAINTENANCE (44-2500, 44-7102, 44-16811) Statewide, LA Supervisor Engineer Jonathan served as supervisor engineer for ITS LLC under the existing ITS Maintenance Retainer contract. Roles include project management support, quality control checks, site reviews, as well as investigating options and developing concepts to improve sites. Jonathan's knowledge of the ITS from planning through operations has made him a highly valuable asset to the ITS Maintenance team especially his knowledge of the ITS as it was designed and operated.			
2007 - 2010	I-12 RAMP METERING DESIGN AND IMPLEMENTATION East Baton Rouge Parish, LA Engineer Jonathan provided signal layout design support, quality control and fiber optic communications design for 16 ramp meters in the Baton Rouge area, including plan layouts, fiber allocations, and technical specification. He also handled construction administration, fiber inspection, fiber test review, and integration coordination. This was the first implementation of ramp metering in the state.			
12/12 - 12/14	BATON ROUGE ITS PHASE 3 Baton Rouge, LA Project Manager & Design Lead Jonathan oversaw the System Engineering Analysis (SEA) document for the project in compliance with the FHWA Rule (23 CFR Part 940.11) to determine project scope and analyze implementation constraints including minimizing the impact of construction on the traveling public and using existing fiber optic communications. Several ITS deployments projects were solely focused on the core urban area, leaving gaps. The solution to meet the DOTD's goal of the Baton Rouge ITS Phase 3 project was to supplement the area with 16 additional closed circuit television video cameras, 5 dynamic message sign sites, 1 HUB site, 30 Bluetooth detection sites, 1 travel time message sign (first in the state), and 8 ramp meters that cover five parishes over 50 miles to help with blind areas. He led the development of the plan set from conception to Final Plans.			


11/12 - 12/14	<p>SUNSHINE BRIDGE ITS DEPLOYMENT DOTD H.010138 Sorrento, LA Project Manager</p> <p>Jonathan managed all tasks from system engineering through deployment of final design package. He oversaw the development of the project level SEA for the deployment of a closed-circuit television camera system along LA 22 and LA 70 including the Sunshine Mississippi River Bridge. He overcame project challenges including determining how permitted fiber communications assets would be used, structure mounted conduit systems, and handling ongoing bridge painting construction. He developed a conceptual design to have the camera support mount directly to the bridge pier cap instead of the bridge's steel members to reduce maintenance. He also oversaw the analysis report, developed plans, specifications, and provided cost estimates.</p>
04/16 - 07/18	<p>ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) ITS SPECIFICATIONS Statewide AL Design Lead</p> <p>ALDOT desired an upgrade of their special provisions into a standard specification in order to bring consistency throughout the state on ITS equipment. Jonathan's vast experience in design of ITS deployment projects as well as firsthand knowledge of what works from being part of ITS maintenance, made him the ideal project manager. The specifications developed included material and construction for a plethora of items: fiber optic communications infrastructure, network switches and wireless radios, CCTV cameras, dynamic message signs, vehicle detection systems, ITS cabinets, environmental sensors, and an assortment of miscellaneous related ITS items. This required assessing multiple manufacturers and models for each device type. Further, Jonathan oversaw and supported the development of material lab test provisions for the equipment as well as acceptance testing provisions.</p>
05/23 - Ongoing	<p>CONNECTED AND AUTOMATED VEHICLE (CAV) WORKING GROUP DOTD Baton Rouge, LA ITS Engineer</p> <p>Jonathan supports the multi-disciplinary working group that works to guide and support DOTD's research, policy, and operational priorities for CAVs that align with DOTD goals and objectives for integrating Intelligent Transportation Systems (ITS). Jonathan supports Quarterly and Subcommittee Meetings, providing access to hands-on CAV technology as well as insights into processes required to deploy technologies such as Cellular-Vehicle-to-Everything (C-V2X).</p>


FIRM EMPLOYED BY		Intelligent Transportation Systems LLC (ITS LLC)		
NAME	Kimberly D. McDaniel, PE, PTOE, PTP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	2	
TITLE	Principal Chief Executive Officer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	19	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2003 Civil Engineering; MS 2005 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE 0032973 / LA / Exp. 9/30/25		
YEAR REGISTERED	2007	DISCIPLINE	PE - Civil; PTOE 2072 / Exp. 10/02/2025; PTP 802 / Exp. 03/14/2025	
Contract role(s) / brief description of responsibilities	Most of Kimberly's 20+ year career has been spent in the private industry as an engineering consultant; however, she served six years in public service at the LADOTD. While at LADOTD, Kimberly played a lead role in the development of state laws (Revised Statutes), policies, and programs related to Access Management, Traffic Impacts, and Complete Streets. Kimberly's experience includes performing a variety of traffic impact studies, capacity analyses, safety analyses, corridor studies, access management evaluations, environmental assessments, and pedestrian studies. She also has experience in roadway design including the design of facilities for bicyclists and pedestrians and the development of traffic control plans. Kimberly is an experienced project manager with a proven record of delivering project on time and on budget. Kim will provide STRATEGIC IMPLEMENTATION PLANNING SERVICES .			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/22 - Ongoing	DOTD TASK ORDER: CONNECTED & AUTONOMOUS VEHICLES (C/AV) TEAM AND WORKING GROUP SUPPORT Statewide, LA Policy Development Kimberly is assisting with the policy development part of the C/AV Team. The goal of this task order is to bring various practitioners together to begin developing projects, programs, infrastructure, statutes, and other mechanisms necessary to prepare the State of Louisiana for the integration of connected and autonomous vehicles on the state's highways and roadways.			
05/22 - Ongoing	DOTD ITS MAINTENANCE (44-7102. 44-16811) Statewide LA Principal Principal for the existing ITS Maintenance Retainer. She oversees the management of the contract to ensure that the project tasks are completed on time and within budget. She works with the project team on managing resources, providing required trainings and certifications, and allocating equipment.			
12/22 - Ongoing	ASCENSION PARISH TRAFFIC IMPACT STUDIES IDIQ CONTRACT Principal and Project Manager Principal and Project Manager for this IDIQ Contract. As a direct-contract consultant, ITS LLC performs traffic impact studies for proposed commercial and residential developments throughout the Parish. Scope of work includes performing traffic impact studies (TISs) for a variety of commercial and residential developments that may include subdivisions, multi-family developments (apartment homes), strip retail centers, big box stores, restaurants, office complexes, industrial facilities, and more. Each proposed development is unique and has differing requirements for the studies.			
10/08 - 08/14	DOTD ACCESS MANAGEMENT PROGRAM Statewide, LA Engineer VI Kimberly developed and managed the DOTD Access Management Program. She performed extensive research of access management policies and best practices throughout the US. Kimberly led multiple focus groups and policy development teams consisting of DOTD employees, consulting engineers, commercial developers, residential developers, real estate agents, attorneys, municipal employees, and elected officials from around the state to develop a policy for DOTD which would regulate the granting of access to state highways. The policy was adopted as Louisiana Administrative Code Title 70, Part I, Chapter 15. Kimberly authored the Access Connections Policy, a document expanding the criteria of the code. She developed training courses for DOTD employees, consultants, contractors, real estate professionals, and elected officials and conducted trainings throughout the state of Louisiana. Once implemented, she chaired and managed the Access Management & Traffic Impacts Appeals Board, coordinating appeals submitted by landowner/developer applicants whose requests for access were denied by the District. Kimberly served as the state's Subject Matter Expert on Access Management throughout this time.			
06/12 - 08/14	DOTD TRAFFIC IMPACTS POLICY & PROGRAM Statewide, LA Engineer VI Kimberly assisted with the development of a revised Traffic Impacts Policy to be used throughout the state for studies related to commercial or large-scale residential development. The program was integral to the success of the Access Management Program as it sought to outline the requirements to study the potential traffic impacts of proposed developments and determine effective mitigation strategies for the additional traffic. Denials of these studies at the District level were also appealed to the Access Management & Traffic Impacts Appeals Board which Kimberly chaired. Kimberly coordinated traffic impact reviews with DOTD District and Headquarters staff.			


2009 - 2014	DOTD COMPLETE STREETS WORK GROUP Statewide, LA Engineer VI Kimberly served on the Complete Streets Work Group for DOTD representing the Traffic Engineering Management Section. The main goal of the task force was to research and evaluate best practices in the area of complete streets and to use that information to develop a Complete Streets Program for DOTD. A final report of the work group was published in July 2010, but Kimberly remained on the work group as policies and other program elements were developed until her departure from DOTD in September 2014.
07/22 - Ongoing	CONTRACT FOR REPLACEMENT OF 15 BRIDGES DISTRICT 08 Northern, LA Principal Principal for this contract. The firm's work on this project includes the development of temporary traffic control plans and a Traffic Management Plan (Levels I-IV, varies) for the replacement of 15 different isolated rural bridges located in the boundaries of DOTD District 08. The detour plans for each location are unique but collectively include the design and operation of temporary traffic signals, temporary detour roadways, and temporary bypasses using existing state routes.
07/22 - Ongoing	CONTRACT FOR REPLACEMENT OF 16 BRIDGES DISTRICT 08 Northern, LA Principal Principal for this contract. The project includes the replacement of 16 rural bridges in northeast Louisiana. Kimberly is leading a team to develop Traffic Management Plans to be used to maintain or detour traffic during construction. For some of the bridge replacements, the Traffic Management Plan will employ the use of a temporary traffic signs, and others will utilize a temporary bypass roadway.


FIRM EMPLOYED BY		Intelligent Transportation Systems LLC (ITS LLC)		
NAME	Christopher Dodt	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Project Manager / Senior Technician	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	22	
DEGREE(S) / YEARS / SPECIALIZATION		N/A - See below for listing of certifications		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A - See below for listing of certifications		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Chris has over ten years of experience with Transportation Management Systems and Operations components, namely with the management and operations of Traffic Management Centers (TMCs). During his time working in the TMCs of Louisiana, Chris also assisted LADOTD ITS section in troubleshooting device communication and operation within the TMC. Chris manages the day-to-day operations of ITS LLCs field technicians. This includes daily scheduling, training, advanced troubleshooting, and QA/QC of work performed. Chris also excels with repairs to a wide range of electronics, relays, power, and generators, and has a strong desire to remain current with emerging technology. Certifications: ATTSA Traffic Control Technician & Supervisor, Louisiana State Fire Marshal, Security licensure #E26979, OSHA, Fall Protection and NFPA 70E. Chris will use his use TMC operations and ITS maintenance experience to provide INDEPENDENT VERIFICATION & VALIDATION for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 - Ongoing	DOTD ITS MAINTENANCE (44-7102. 44-16811) Statewide, LA Project Manager Project Manager for the ITS Management, Operations, and Maintenance Engineering & Inspection (ME&I) IDIQ Contract. He performs routine maintenance on emergency crossover gates, travel time message system, CCTV camera sites, RVD sites, ramp meter sites as well as DMS sites. His skills include device troubleshooting, communication and network troubleshooting, parts replacement, site cleaning, insect extermination, traffic control setup, as well as coordinating with law enforcement, TMC operations staff, and DOTD. Chris manages the firm's ME&I technicians including scheduling, training, and QA/QC of work.			
2017 - 2022	TRAFFIC MANAGEMENT CENTER (TMC) OPERATIONS CONTRACT New Orleans, LA TMC Supervisor & Traffic Incident Management Assistant Coordinator Chris managed a staff of ten TMC Operators between the New Orleans and Houma TMCs in a 24/7 emergency operations call center. He was responsible for ensuring that operator staff properly disseminated traffic conditions via email and web applications to the media and the motoring public in accordance with the DOTD TMC standard operations. Chris reviewed and approved traffic incident plans for large scale planned events and emergency conditions due to weather. He coordinated initial training and ongoing assistance to operator staff to ensure all DOTD requirements were met. He conducted meetings with individuals from all TIM responder disciplines, including law enforcement, fire/rescue, emergency medical service, towing and recovery, emergency management, communications, highway/transportation and dispatch within the Louisiana and neighboring states, regions, and local municipalities.			
2014 - 2017	TRAFFIC MANAGEMENT CENTER (TMC) OPERATIONS CONTRACT Statewide, LA TMC Operations Manager & Traffic Incident Management Coordinator Chris managed overall operations of five TMCs. He produced and updated policies within the standard operating procedures and training documents. He managed a staff of 30 employees statewide in 24/7 emergency call operations centers. Chris provided detailed monthly billings to client and ensured that all client expectations were met or exceeded. He actively researched different avenues to maintain efficient operation of TMCs with a high level of accuracy and accountability. He conduct meetings with individuals from all TIM responder disciplines, including law enforcement, fire/rescue, emergency medical service, towing and recovery, emergency management, communications, highway/transportation and dispatch within the Louisiana and neighboring states, regions, and local municipalities.			
2012 - 2014	TRAFFIC MANAGEMENT CENTER (TMC) OPERATIONS CONTRACT New Orleans, LA Traffic Management Supervisor & Traffic Incident Management Assistant Coordinator Chris managed a staff of ten TMC Operators between the New Orleans and Houma TMCs in a 24/7 emergency operations call center. He was responsible for ensuring that operator staff properly disseminated traffic conditions via email and web applications to the media and the motoring public in accordance with the DOTD TMC standard operations. Chris reviewed and approved traffic incident plans for large scale planned events and emergency conditions due to weather. He coordinated initial training and ongoing assistance to operator staff to ensure all DOTD requirements were met. He conducted meetings with individuals from all TIM responder disciplines, including law enforcement, fire/rescue, emergency medical service, towing and recovery, emergency management, communications, highway/transportation and dispatch within the Louisiana and neighboring states, regions, and local municipalities.			


2009 - 2012	<p>TRAFFIC MANAGEMENT CENTER (TMC) OPERATIONS CONTRACT New Orleans, LA TMC Operator/Senior Operator</p> <p>Chris actively monitored roadway for abnormal traffic patterns, vehicle crashes, debris, etc., by use of Closed Circuit Televisions (CCTV). He disseminated traffic conditions via email and web applications to the media and the motoring public. He produced traffic incident plans for large-scale planned events and emergency conditions due to weather. He provided initial training and ongoing assistance to operator staff to ensure all requirements of the DOTD were always met.</p>
2000 - 2009	<p>LAW ENFORCEMENT FOR KENNER POLICE DEPARTMENT, KENNER Police Officer</p> <p>Chris performed uniform patrol duties in a community with a population of 75,000 people. He investigated felony and misdemeanor criminal offenses, performed traffic control services, and investigated automobile crashes. Chris obtained statements, conducted surveillance, searched for and collected evidence, wrote detailed investigative and arrest reports, issued summonses, made arrests, and executed search and arrest warrants. He conducted DWI enforcement patrols and performed a variety of specialized duties during hurricanes and other disasters or emergencies. He served as the Armorer and Field Training Officer (FTO) for Squad of 18 officers. As a Correctional Peace Officer, Chris operated various criminal history databases and video surveillance equipment setups, provide accurate booking and comprehensive care, custody, and control of the inmate population at the municipal jail. As a Property Management Officer, he installed specialized video and audio surveillance equipment, installed and repaired emergency equipment on police vehicles, scheduled and performed general and technical maintenance on the police fleet, and conducted inventory of specialized police equipment, uniforms, and weapons. Throughout his time as a law enforcement officer, Chris regularly provided court testimony in City, Parish, and State courts. He was awarded the 2008 Police Officer of the Year by the Kenner Rotary Club and received numerous commendations from the Department for exemplary performance as a police officer and for his investigative skills and achievements.</p>


FIRM EMPLOYED BY		Intelligent Transportation Systems LLC (ITS LLC)		
NAME	Jeremy Garrett	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	7	
TITLE	Senior ITS Technician	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	16	
DEGREE(S) / YEARS / SPECIALIZATION		N/A		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Jeremy has 7 years of experience in traffic systems installation and maintenance. Jeremy has worked to install, troubleshoot, maintain, repair, test, and integrate ITS equipment throughout the state. His ITS diagnostic and testing experience are well suited to supporting the IV&V tasks in this IDIQ. In addition to his work experience, Jeremy has obtained the following certifications: CDL Class B; ATSSA Traffic Control Technician & Supervisor; IMSA Traffic Signal Technician II; LASFM #E20782 – Property Protection Apprentice; NFPA 70E; OSHA, Fall Prevention. Jeremy will provide INDEPENDENT VERIFICATION & VALIDATION for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “Designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/17 - Ongoing	DOTD ITS MAINTENANCE (44-7102. 44-16811) Statewide, LA Senior Technician Jeremy serves as a senior technician on the DOTD Management, Operations, and Maintenance Engineering & Inspection (ME&I) IDIQ retainer. His duties include inspecting, maintaining, troubleshooting, and repairing ITS equipment. He performs routine maintenance on CCTV camera sites, RVD sites, ramp meter sites, and DMS sites. Jeremy has been a leader in troubleshooting and repairing the ramp meters along I-12 in Baton Rouge and US 90B in New Orleans, which are modified traffic signals used to create greater headway for vehicles entering the freeway.			
11/20 - 03/21	H.012739 I-20 VICKSBURG Delta, LA Senior Technician Jeremy has assisted with the deployment of a new radar systems for traffic monitoring along I-20 over the Mississippi River Bridge. His efforts included device configuration, installation and field testing/verification.			
04/18 - 08/18	H.012748 – BATON ROUGE HUBSITES – EMERGENCY GENERATORS Baton Rouge, LA Senior Technician Jeremy served as a senior technician for the installation and integration of 6 diesel generators at Hub buildings in the Baton Rouge area. He installed and worked with generators, transfer switches, electrical power disconnects, transformers, and communication switches. Generators ranged in size from 30KW to 80KW.			
07/17 - Ongoing	DOTD ITS MAINTENANCE (AUTHORIZED DEALER, STANDARD STATE CONTRACTS, LOW BID CONSTRUCTION) LA Senior Technician Jeremy performed repair work under various contracting mechanisms for LADOTD ITS. These work experiences were similar to that of the maintenance retainer. However, the work includes items outside the scope of the maintenance retainer. Tasks have included building custom components, modifying facilities, site decommissioning, and solar power system installation.			


FIRM EMPLOYED BY		Intelligent Transportation Systems LLC (ITS LLC)		
NAME	Philip "Phil" Gill	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Project Specialist, Senior Technician	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	23	
DEGREE(S) / YEARS / SPECIALIZATION		Associates Degree 2001 Industrial Electronics		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Phil currently serves ITS LLC as a Project Specialist. He has over 10 years of experience in network device, CCTV and access control systems installation, troubleshooting, and maintenance. Additionally, Phil has worked to install, troubleshoot, maintain, repair, test, and integrate ITS equipment throughout the state. In addition to his work experience, he has obtained the following certifications: NFPA 70E; OSHA, CPR, First Aid, Fall Prevention. Phil will provide INDEPENDENT VERIFICATION & VALIDATION for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
2021 - 2024	ITS COMMUNICATIONS SPECIALIST Provide technical support, and on-site service of Networking, CCTV, DMS, Electrical system and any related Fiber, Wireless, and Copper networks when necessary. Consult on client-specific IT, CCTV, DMS, and any other needs, within the GNOEC Causeway. Test and troubleshoot Copper, and fiber Networks involving CCTV, DMS, and all other general network access.			
2019 - 2021	NETWORKING, CCTV, AND ACCESS CONTROL TECHNICIAN Provide technical support, and on-site service of Networking, CCTV, DSX access control systems, and any related Fiber, Wireless, and Copper networks when necessary. Consult on client-specific IT, CCTV, and security needs, within Hospital, and Industrial environments. Test and troubleshoot Copper, and fiber Networks involving CCTV, Access Control, and general network access. Provided rapid response, network infrastructure related troubleshooting and restoration.			
2018 - 2019	DOTD ITS MAINTENANCE (4400007102) Statewide LA Senior Technician Philip has served as a senior technician for the existing ITS Maintenance Retainer. He performed routine maintenance on CCTV camera sites, RVD sites, Ramp Meter sites as well as DMS sites. His skills include but are not limited to: device trouble shooting, parts replacement, site cleaning, insect extermination, traffic control setup, as well as coordinating with law enforcement, TMC operations staff, and DOTD. As part of maintenance, field equipment replacement requires reconfiguration and network programming. Philip has performed this level of integration in coordination with DOTD ITS and TMC Operations to ensure the equipment is fully functional.			
2018 - 2019	H.012748 – BATON ROUGE HUBSITES EMERGENCY GENERATORS Baton Rouge, LA Senior Technician Philip served as senior technician for the Hubsite Emergency Generator project. Communication integration and setting up the remote monitoring system inside the DOTD traffic management center was managed by Philip. He determined the software requirements of the monitoring system and performed the installation and integration work, both at the field sites and at DOTD HQ to ensure good communication.			
2018 - 2019	ST BERNARD PORT, HARBOR, TERMINAL DISTRICT Senior Technician Philip served as a senior technician. Philip's tasks performed included but not limited to: Network triage, communication backhaul installation, physical and logical plant documentation, electrical power repairs and aerial repairs. Philip performed wireless radio installation work for the video surveillance system and associated IT infrastructure to include servers, routers, firewall, software and wireless.			
2018 - 2019	PORT OF SOUTH LOUISIANA Senior Technician Philip served as a senior technician. Philip's tasks performed included but not limited to: Network triage, communication backhaul installation, physical and logical plant documentation, electrical power repairs and aerial repairs. Philip performed wireless radio installation work for the video surveillance system and associated IT infrastructure to include servers, routers, firewall, software and wireless.			
2015 - 2018	FIBER OPTIC COMMUNICATIONS AND INSTRUMENT TECHNICIAN Provide technical leadership for all aspects of the on-site service, including installation, preparation, termination, splicing, testing, and certifying Fiber and Cat 6A network infrastructure. Consult on client-specific process control instrument within assigned chemical plants in Louisiana. Test and troubleshoot temperature, vibration, and speed probes in compressors, and turbines.			

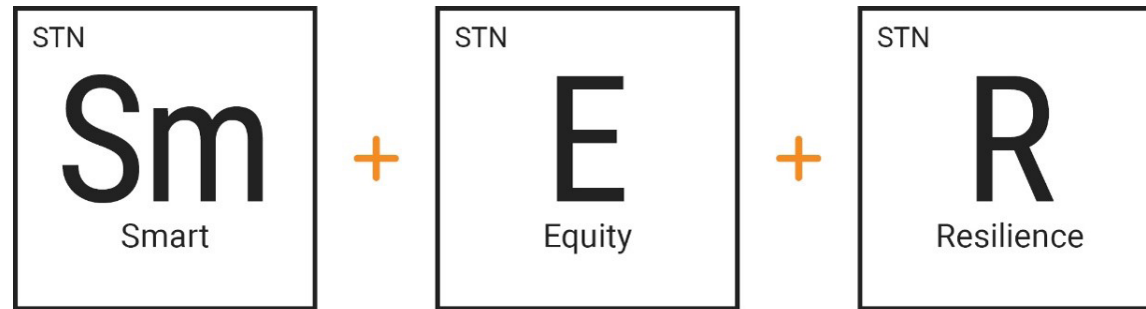
FIRM EMPLOYED BY		Intelligent Transportation Systems LLC (ITS LLC)		
NAME	Torren Parker	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	3	
TITLE	Senior Technician	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	10	
DEGREE(S) / YEARS / SPECIALIZATION		N/A		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Torren He has over ten years of experience in IT and communications-related fields, including nearly four years in service as part of the Army National Guard of Louisiana. His role at ITS LLC includes the installation, maintenance, troubleshooting, repair, test, and integrate a variety of radio, fiber communication, network, and ITS technology. In addition to his work experience, Torren holds the following certifications: Authorized Climber; ATSSA Traffic Control Technician & Supervisor; Louisiana State Fire Marshal – Security licensure #E26851; NFPA 70E; OSHA, Fall Protection. Torren will provide INDEPENDENT VERIFICATION & VALIDATION for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “Designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/21 - Ongoing	DOTD ITS MANAGEMENT, OPERATIONS AND ME&I STATEWIDE (44-16811) Statewide, LA Senior Technician Torren serves as a Senior Technician on the DOTD Management, Operations, and Maintenance Engineering & Inspection (ME&I) IDIQ retainer. His duties include inspecting, maintaining, troubleshooting, and repairing ITS equipment. He’s also an authorized climber for when tower work is needed.			
06/22 - 09/22	H.012381.5 ITS FMS INVENTORY Baton Rouge, LA Senior Technician ITS LLC was tasked by DOTD to document the integrity of its fiber communications assets in Baton Rouge, New Orleans, Lake Charles, and Monroe. Torren performed Optical Time Domain Reflectometer (OTDR) testing on the fiber distribution panels within the ITS field cabinets and hub buildings in this area as well as supporting in the field documentation and post processing of the obtained data. To provide quality data, Torren performed some additional fiber port cleaning and termination repair.			
07/21 - Ongoing	PLAQUEMINES PORT AND HARBOR TERMINAL DISTRICT Plaquemines Parish, LA Senior Technician As the Managed Service Provider of PPHTD, ITS LLC provides system upkeep of their security and business networks. Torren provides both on-site and remote troubleshooting of the Port’s security and IT systems. His duties include troubleshooting issues with radios, cameras, switches, and other devices, as well as maintaining the Port’s business IT systems.			
01/23 - 03/23	PORT OF GREATER BATON ROUGE CAMERA ENHANCEMENT Baton Rouge, LA Senior Technician To improve CCTV coverage of the Port of Greater Baton Rouge, Torren configured and installed CCTV cameras and wireless radios for remote monitoring of facility locations.			

FIRM EMPLOYED BY		ASE Services, Inc.		
NAME	Michael Krueger, ESEP, PMP, OCSMP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	24	
TITLE	CEO / Chief Systems Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	30	
DEGREE(S) / YEARS / SPECIALIZATION		N/A		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		Expert Systems Engineering Professional (INCOSE ESEP) #0005, 2013; Project Management Institute (PMP) #2163223, 2018; OMG-Certified Systems Modeling Professional (OCSMP) #285023328, 2021		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	With over 30 years of experience, Michael is a subject matter expert in systems engineering and is active within the international systems engineering community. He provided Systems Engineering and Project Management Consulting Services to Caltrans, New York City Transit (NYCT), and LADOTD in the following areas: Project Management, Process Development, Systems Engineering Training, Requirements Engineering, Concept Exploration, and Configuration Management. Micheal is knowledgeable in Model-Based Systems Engineering fundamentals and knowledgeable in modeling tools such as Rhapsody and Cameo. He is an expert requirements engineer who develops needs, requirements, and test cases for various ITS projects and works with requirements management tools such as DOORs and OpenText Dimensions RM and most of the requirements tools. Michael has worked with requirements management tools, power BI, and Tableau to visualize big data. He has also worked with various Microsoft Products including: Project Online, SharePoint, Excel, Word, PowerPoint, Access, Microsoft Teams, and SharePoint. Michael will provide SYSTEMS ENGINEERING ANALYSIS (SEA) for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/00 - Ongoing	SYSTEMS ENGINEERING CONSULTING FOR CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) CALTRANS Statewide, CA Michael developed the concept of operations, requirements, and various procurement documents for Caltrans's latest advanced transportation management system (CATMS). CATMS is an integrated ATIS, ATMS, and ICM system being procured for the California Department of Transportation. On-Call Systems Engineering Service Contract: Michael provides a wide range of systems engineering services, including Project Management, Requirements capture and management, Risk management, Configuration Management, Software documentation, Architecture development, Process Development, IV&V, Reverse Engineering, Concept Exploration, Operational Concepts, Concept of Operations, Trade Studies, and Quality Assurance for the Statewide Advanced Transportation System. Michael supported the development of Systems Engineering Procurement documentation, including Statement of Work for software development, Work breakdown structure, Systems Engineering Management Plan, Project Management Plan, Project Dictionary, Project and Cost Guides, Risk Management Guides, and Verification Guides.			
01/10 - Ongoing	SYSTEMS ENGINEERING CONSULTING FOR LADOTD DOTD Statewide, LA Michael provided systems engineering services to support the development of six regional architectures in Louisiana, including Baton Rouge, Shreveport, Monroe, Alexandria, Lake Charles, and New Orleans. Conducted workshops in each region, captured needs, requirements, and inventory of ITS elements, developed separate regional architectures, and developed a statewide architecture using Turbo-Architecture and the development of procurement plans for each region. In addition, Michael supported the development of New Orleans Regional TMC requirements. The requirements were managed using the OpenText Dimensions RM requirements management tool.			
01/10 - 01/15	SYSTEMS ENGINEERING CONSULTING FOR THE NEW YORK METROPOLITAN TRANSIT SYSTEM Statewide, NY Michael provided systems and requirements engineering training, concepts of operations, and requirements for upgrades to the new station's track intrusion system for the New York subway system.			
06/05 - 06/07	SYSTEMS ENGINEERING GUIDEBOOK FOR ITS FHWA/Caltrans Statewide, CA Project Lead and Primary Author Michael provided the technical lead and primary author of developing the Systems Engineering Guidebook for ITS. The project was co-sponsored by the FHWA and Caltrans. The project was to develop system engineering processes and provide guidance to the development of ITS systems. The scope covered interfacing with the regional architecture, concept development, capturing user needs, requirements development, system architecture, design development, subsystem and system integration, testing and deployment, operations and maintenance, upgrades, and retirement. The process follows the Vee systems engineering process. The guidebook was published by the FHWA resource for DOT nationwide.			

FIRM EMPLOYED BY		Skyline Technology Solutions, LLC		
NAME	Israel Lopez	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	2	
TITLE	Transportation Solutions Architect	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	29	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2004 Information Technology		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Israel has 29+ years of experience in the configuration, cybersecurity, deployment, design, maintenance, and troubleshooting of back-office systems, video distribution, video conferencing systems, videowalls, Enterprise information systems, and information systems for Intelligent Transportation Systems (ITS), and Information Technology (IT). His roles have ranged from being a network/system administrator for classified Army field networks to managing the ITS data warehouse within the Phoenix Metropolitan area for 13 local transportation jurisdictions to assisting in deploying a statewide multicast network to support 600+ cameras for the Nevada DOT. Additionally, Israel has worked as a system integrator for rural and urban corridors as a public agency and contract integrator for freeway and arterial systems. Certifications: (ISC) ² Certified Cybersecurity; (ISC) ² Candidate for CISSP - ISSEP; CWNP Certified Wireless Network Administrator (CWNA); Bicsi Registered Communication Distribution Designer (RCCD). Israel will provide SYSTEM DEVELOPMENT & INTEGRATION SERVICES for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/22 - Ongoing	STATEWIDE CYBERSECURITY ASSESSMENT NEW YORK STATE DOT (NYSDOT) Cybersecurity and Cyber Resilience Transportation Architect Responsible for assessing the system's Current State, reviewing system documentation, attending meetings, conducting field visits, identifying the desired end state of the system, and prioritizing cyber security gaps. Responsible for creating a vision for the traffic management systems to include connected and autonomous vehicles, vehicle-to-infrastructure (V2I/V2X/C-V2X), critical infrastructure, radios, backbone, data warehouse, hardware, and software for the Information Technology and the Intelligent Transportation System for NYSDOT based on the National Institute of Standards and Technology (NIST) Cybersecurity Framework v1-1 and Security and Privacy Controls for Information Systems and Organizations (NIST 800-53-r5). Developed a needs assessment to address future bandwidth needs, a plan related to network segmentation, and identify significant points of presence, data centers, and site classification for up-time, environmental, power, security, and backbone demand analysis.			
11/22 - 09/23	TUNNEL OPERATIONS VIDEO MANAGEMENT SYSTEM AND STATEWIDE CONTENT DELIVERY NETWORK (CDN) COLORADO DOT VMS Solution Architect Responsible for the design of a new Tunnel VMS system (110 CCTV cameras) and providing recommendations on redundant architecture while using the FHWA System Engineer Process (SEP) and System Engineering Analysis (SEA). Developed requirements for the Skyline VMS, which are integrated into the cloud-based Advanced Traffic Management System (ATMS). The design for the Skyline VMS integrating Active, Active Failover, and Active Standby scenarios, incorporating VMware VMotion, Zerto, and Kubernetes into the Content Delivery Network.			
06/22 - 11/22	MANAGED NETWORK SERVICES, SERVICE EVOLUTION TXDOT TxDOT Solution Architect Fostered cross-team collaboration to prioritize initiatives, design innovative network systems, and develop strategic roadmaps. Spearheaded the design and optimization of network architecture, addressing advanced technical projects and business challenges with expertise. Generated detailed reports and action plans from project analyses and on-site evaluations related to ITS and V2I/V2X/C-V2X. Tackled complex issues, uncover root causes, and implement solutions using the latest network technologies and insights. Collaborated with the Client Executive and Skyline leadership to identify opportunities for expanding operations, securing new contracts, RFPs, and developing competitive pricing models. Delivered comprehensive reports and strategic plans from project assessments, ready to present at key meetings.			
04/18 - 06/22	SYSTEMWIDE PLANNING AND DESIGN, VALLEY METRO RAIL (VMR) SOUTH-CENTRAL EXTENSION (SCE) Phoenix, AZ Senior ITS Consultant Responsible for assessing the current state of the VMR fiber-optic Communications Transmission System (CTS) and expanding the transit agency's 10-Gbps Ethernet network fourteen miles, including upgrading nine miles of backbone and five miles of expansion. Performed network discovery on existing as-builts and identified conduits, fiber optic paths, and fiber in use. Created fiber-optic and copper twisted pair connectivity diagrams, block diagrams, splice diagrams, patch panel tables and diagrams, and equipment schedules. Developed specifications and plans for the fiber-optic hardware, cabling, MPLS network, racks diagrams, bonding and grounding, and the network equipment as part of Design Services During Construction (DSDC).			

FIRM EMPLOYED BY		Skyline Technology Solutions, LLC		
NAME	James Prescott, ISSAP, CISSP, CCNA	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	9	
TITLE	System Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		Associate of Applied Science 2015 Information Assurance and Cyber Security		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	<p>James is a Network Architect with nine years of experience in designing and implementing complex network solutions. He has a proven track record of successfully optimizing network performance and security. He is adept at collaborating with cross-functional teams to ensure seamless network operations. James is ready to leverage expertise and drive innovation in network architecture for the benefit of the organization. Certifications: (ISC)² Information Systems Security Architecture Professional (ISSAP); (ISC)² Certified Information Systems Security Professional (CISSP); Cisco Certified Network Associate (CCNA); CompTIA A+; CompTIA Network+; CompTIA Security+; CompTIA Project+; AWS Certified Cloud Practitioner; ITIL® Foundation Certificate in IT Service Management (ITILv4); Palo Alto Certified Network Security Engineer 7 (PCNSE 7). James will provide SYSTEM DEVELOPMENT & INTEGRATION SERVICES for this contract.</p>			
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).			
05/19 - Ongoing	<p>SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD Network Architect / System Engineer</p> <p>Leads and manages major network infrastructure projects, ensuring they are completed on time and within budget. Designs and implements scalable network solutions to meet the growing demands of the State of Maryland and ensures high availability and performance of critical applications. Provides technical leadership and guidance to the network engineering team, ensuring best practices and standardization in network design and implementation. Evaluates emerging network technologies and recommends solutions that will enhance the company's network infrastructure and provide a competitive advantage in the market. Collaborates with cross-functional teams to identify and prioritize network infrastructure needs and develop innovative solutions to meet those needs.</p>			
02/16 - 05/19	<p>SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD Network Security Engineer</p> <p>Designed and implemented network security solutions for clients to ensure the protection of sensitive data and infrastructure from cyber threats. Firewall migrations and greenfield deployments, including designing and implementing innovative solutions according to customer network, security and compliance requirements. Implemented and maintained strong network security measures to protect the company's systems and data from cyber threats. Evaluated and recommended new network security technologies and solutions to enhance the company's cybersecurity posture. Provided guidance and support to clients in implementing proactive measures to detect and mitigate network security threats.</p>			
07/15 - 02/16	<p>SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD SOC Analyst</p> <p>Developed and maintained incident response plans to effectively address and mitigate security incidents. Continuously monitored and analyzed security alerts and incidents, taking immediate action to mitigate any potential security threats. Conducted regular vulnerability assessments to identify potential security risks and recommend appropriate solutions. Identified and documented emerging security threats and vulnerabilities.</p>			

FIRM EMPLOYED BY		Skyline Technology Solutions, LLC		
NAME	Mark Hollerbach, ISSEP, CISSP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	9	
TITLE	System Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2016 Information Systems		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Mark manages Skyline's team of cybersecurity technologists and is also a well-rounded Senior Information Security Engineer specializing in Splunk and Palo Alto Networks firewalls. He has spent the last 8 years focused on consulting with Skyline's customers to architect and develop their cybersecurity infrastructure. Mark's expertise in many aspects of security engineering allows him to give informed guidance and practical recommendations when building a cybersecurity program. Certifications: (ISC) ² Information Systems Security Engineering Professional (ISSEP); (ISC) ² Certified Information Systems Security Professional (CISSP); Splunk Enterprise Certified Architect; Splunk Enterprise Certified Admin; Juniper Networks Certified Specialist Security (JNCIS-SEC); Juniper Networks Certified Associate Junos (JNCIA-Junos); Palo Alto Network Accredited Configuration Engineer (ACE 7.0 & 8.0). Mark will provide SYSTEM DEVELOPMENT & INTEGRATION SERVICES for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 - Ongoing	SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD Cybersecurity Manager / System Engineer Mark is a Cybersecurity Subject Matter Expert (SME) to architect, engineer, implement, and support organization and customer projects. Leads incident response activities ranging from initial discovery to reconstitution efforts. Leverages in-depth understanding of network/systems security engineering, cyber operations/incident response, and security policy administration/governance to confidently design and deliver cybersecurity solutions for mid/large size customers in the SLED market. Provides technical guidance, mentorship, and support for engineering and operational cybersecurity resources. Interacts with stakeholders in gathering requirements, onboarding data sources, configuration, and optimization of the SIEM suite of tools including products such as Splunk Enterprise Security. Mentors security personnel to grow and mature the team. Works closely with specialized teams to build security into their processes and procedures in preparation for cybersecurity audits.			
04/20 - 01/23	SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD Senior Information Security Engineer Mark acted as a security information and event management (SIEM) system Subject Matter Expert (SME) to architect, engineer, implement, and support organization and customer projects. Deployed Splunk SIEM infrastructure in emergency situations leveraging Ansible to respond to active ransomware incidents. Designed and developed of complex custom search queries to promote and support advanced searching, forensics, and analytics. Designed and developed dashboards, data models, reports, visualizations, and perform performance optimization. Provided knowledge and ability to architect, design, support, and maintain high availability, distributed, multi-clustered and multi-tenant Splunk deployment environments. Provided support for SIEM deployment and server infrastructure analysis, optimization, and capacity planning. Drove ongoing improvement of processes for integrating SIEMs and ingesting data. Developed countless custom Correlation Searches and investigation stories for security analysts. Developed and provide documentation on SIEM architectures, technical designs, data flows, as-built documents, and SOPs. Provided design oversight and direction to a team of firewall engineers.			
05/16 - 04/20	SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD Network Security Engineer Mark provided consulting services to customers including State and local government, as well as commercial customers. Developed and deployed firewall configuration standards across a service provider network. Migrated legacy firewalls to a Next Generation Firewall solution offered as a service running on the Palo Alto 5000 and 7000 series platforms. Supported firewalls from multiple vendors, including, Palo Alto, Cisco, and Juniper. Fielded escalations and optimized workflows for a 24/7/365 Security Operations Center. Grew and matured multiple distributed Splunk Enterprise environments.			
05/15 - 05/16	SKYLINE TECHNOLOGY SOLUTIONS Glen Burnie, MD Security Analyst Mark monitored security incidents to identify and respond to threats. Troubleshoot and resolved IP network connectivity issues. Investigated security and network logs using Splunk, Graylog, AlienVault, Cacti, and Scrutinizer. Utilized trouble ticketing systems including ConnectWise.			



Smart(ER) Mobility

Sections 17

*Our global team provides **Smart(ER)** solutions to transportation challenges that impact urban and rural cities, communities, daily lives, and the environment*

17. Firm Experience:

FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	ATMS / 511 REPLACEMENT SYSTEM ENGINEERING ANALYSIS		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.014515	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Statewide, Louisiana		OWNER'S PROJECT MANAGER	Rosalinda Deville
OWNER'S ADDRESS, PHONE, EMAIL		1201 Capital Access, Baton Rouge, LA 70808 225-379-2528 rosalinda.deville@la.gov		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	04/2021	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		\$197
SERVICES COMPLETED BY THIS FIRM (MM/YY)	04/2023	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$141

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

DOTD is faced with the challenge of upgrading a disparate Advanced Traffic Management System (ATMS) and Advanced Traveler Information System (ATIS) and Video Distribution Management System (VDMS) that do not meet their operational needs.

The software does not provide operators the ease of monitoring and controlling field devices efficiently and seamlessly sharing data because of fragmented software that had different platforms for control of ITS devices through ATMS, ATIS "511 system", and Video Distribution Management System (VDMS). This means that certain operator inputs have to be duplicated from one system to the other to complete the chain of commands required to respond to incidents and congestion on the roadways and the duplication of efforts continued whenever incident status changes until the event was cleared. This impedes operator efficiency in dealing with the safety and mobility needs of the traveling public in a timely manner and attending to other critical coordination needs with first responders such as motorist assistance patrol, law enforcement, and emergency services.

To add to the complexity of this project, the ATMS upgrade is also required at time when advancements in the connected and automated vehicle spaces that will be a game changer in how agencies manage and operate their infrastructure are gaining impetus. The Louisiana Department of Transportation and Development (DOTD) turned to a trusted partner in Stantec to help guide them through the process to procure a software system that will meet their current needs and be future ready for emerging technology integration.

Stantec took on this challenge and first engaged with multiple stakeholders including traffic management center operators, various DOTD Divisions including ITS, Maintenance, Operations, Safety and research partners from academia who use the system on a daily basis or are impacted by the outcomes of operational strategies implemented. The purpose of this engagement was to understand and document stakeholder needs for management and operations of the physical infrastructure in the context of broader societal needs for mobility and safety. Having established this framework this provided Stantec the capability to engage and guide the stakeholder group to document their needs for operations today and the future.

Stantec identified that the key to procuring the right system was a thorough understanding of the user needs and translating that into functional requirements, and traceability of all functional requirements to specific user needs. Stantec leveraged its relationship with various software vendors or developers to organize workshops to demonstrate to the stakeholders new and emerging capabilities in the ATMS and ATIS as well as exploring differing levels of system integration. The vendors ranged from commercial-off-the-shelf products with limited customizations to those that could build a customized software for DOTD. This exposure helped the stakeholders and Stantec to document better define user needs which were translated into the functional requirements. A complete System Engineering Analysis (SEA) was performed which included evaluation of alternative concepts and procurement options to enhance the success of procuring a new ATMS and ATIS. Stantec is currently supporting DOTD in the next step of this software procurement under a separate task order and will lead the development of bid packages.

TEAM MEMBERS INVOLVED: M.BRUCE, D.GOUDEAU, K. IRVIN, M. DAVIS, S. MENSAH, N.WADJE, L.OVERN, J.LEFANTE, A. GRIFFIN, (SUBCONSULTANTS: J.FOX, L. LAMBERT, M. KRUEGER)

TASK RELEVANCE:

- ☒ Project Management
- ☒ System Engineering Analysis (SEA)
- ☒ Strategic Implementation Planning Services



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	CONNECTED AND AUTONOMOUS VEHICLE (CAV) WORKING GROUP		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.012845	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Baton Rouge, Louisiana		OWNER'S PROJECT MANAGER	Rosalinda DeVille
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access, Baton Rouge, LA 70808 225-379-2523 rosalinda.deville@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	6/23	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		\$559.348
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$386.818

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

DOTD Connected and Autonomous Vehicle (CAV) Working Group kicked off again on September 9, 2023. This Working Group is a continuation of a previous effort that developed the first iteration of a strategic plan describing how DOTD can become involved in the CAV space.

The revived effort focuses on 3 key areas:

- Determining where DOTD, and each of its divisions, fits into the CAV deployment conversation through information sharing and tracking national developments,
- Supporting internal and external coordination around funding opportunities, and
- Informing policy, legislative, and regulatory considerations around CAVs based on state and national developments.

Goals and Objectives:

In leading the Working Group, Stantec is guiding the evaluation of research, policy, and operational priorities for CAVs that align with DOTD goals and objectives for integrating Intelligent Transportation Systems (ITS).

Stantec leads and coordinates quarterly and subcommittee meetings; focuses on information sharing through an online portal and bi-weekly updates; supports education through speakers brought in as part of the quarterly meetings; and, fosters interactive discussion between operational divisions within DOTD.

This effort also involves developing recommendations for updates to the current CAV Strategic Plan that aligns with the evolving marketplace for CAVs. Additionally, given the funding opportunities through the Bipartisan Infrastructure Law, Stantec is supporting collaborative conversations around innovative projects to align with innovation and mobility focused grant opportunities, including the USDOT SMART Grant program.

The Stantec team on this project is a team with multi-disciplinary experience in ITS and transportation. This includes planning, engineering, policy and regulatory, and engagement. Stantec is also able to leverage local, regional, and national expertise on ITS in support of this effort.

TEAM MEMBERS INVOLVED: M. BRUCE, D. GOUDEAU, M. DAVIS, S. MENSAH, K. IRVIN, G. RODRIGUEZ, K. FILLIN-YEH, E. PLAPPER, J. KING (SUBCONSULTANTS: J. FOX, K. MCDANIEL, L. LAMBERT, R. RODRIGUE)

TASK RELEVANCE:

- ☒ Project Management
- ☒ Strategic Implementation Planning Services
- ☒ Grant Support
- ☒ Policy Guidance



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	TDOT TMC CENTRAL SOFTWARE PROJECT		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	N/A	OWNER'S NAME	Tennessee Department of Transportation	
PROJECT LOCATION	Statewide, Tennessee		OWNER'S PROJECT MANAGER	Lee Smith, PE
OWNER'S ADDRESS, PHONE, EMAIL		James K. Polk Building, Suite 1800, 505 Deaderick Street, Nashville, TN 615-253-6705 lee.j.smith@tn.gov		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	03/19	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		\$4,000
SERVICES COMPLETED BY THIS FIRM (MM/YY)	01/21	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$2,615.540

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

The implementation of a unified map-based ATMS software helped TDOT lay the foundation to implement advanced ITS strategies including active arterial management and active freeway management within the I-24 SMART Corridor.

TDOT has been operating and managing TMCs across the state for over 15 years. Over that time, the scale of ITS device deployment, operational best practices, and technology has changed significantly and become the industry-leading SmartWay ITS program. Recently due to growing traffic congestion in the State's urban and suburban networks, TDOT is expanding their operating reach from a core focus on incident management and freeway patrol services to also include emerging congestion management capabilities in their operations. TDOT Traffic Operations Division, in coordination with the Federal Highway Administration engaged in a formal system engineering process resulting in development of over 2,000 software requirements based on the definition of user needs obtained from engineering and operations personnel statewide. TDOT used a competitive process to secure systems integration and software services and developed a plan to replace legacy software at the Traffic Management Centers (TMCs).

Stantec, in coordination with the Southwest Research Institute (SwRI) as their subconsultant, was tasked by TDOT to provide system engineering, integration and deployment support services to integrate the ActiveITS software platform developed and used by Texas (LoneStar) and Florida (Sunguide) DOTs into their four TMCs across the state. The modification of ActiveITS to meet the 2,000 software requirements developed by TDOT resulted in the creation of TDOT's unique SmartWay Central Software (SWCS). Timing of software development and deployment was coordinated with a "network refresh" by TDOT Information Technology Division to upgrade TMC server architecture at all TMCs featuring the latest technology from Cisco.

SWCS eliminates redundant operator entries and improves operational efficiency and capability while providing a map-based graphical user interface. Once the baseline configuration was completed and approved by TDOT in January 2020, the new software began rolling out to the four TMCs for further configuration and testing in preparation of taking the software live. Device configurations in the various regions include CCTV cameras, dynamic message signs, radar vehicle detectors, highway advisory radio, runaway truck ramps, dedicated short range communications roadside units, fog gates, and road weather information systems.

Go-Live of the software was first achieved in the Region 4 TMC in Memphis in October 2020 with Chattanooga (Region2), Knoxville (Region 1), and Nashville (Region 3) following consecutively. TDOT and their consultants spent 4 to 6 weeks at each TMC to deploy and configure the software while also acquiring feedback from operators and providing training and support. An updated TMC Operations Manual, Software Users Manual, and Version Description Document were developed. Training for TMC Operators and IT Administrators at all four TMCs was conducted to leverage the full capability of the new software and answer questions related to the enhanced capabilities and new workflow.

Now in place, the new ATMS software is helping TDOT meet their goals and objectives to improve the efficiency of their incident management operations and allow them to manage congestion as it becomes an increasingly severe issue in Tennessee.

TEAM MEMBERS INVOLVED: D. GOUDEAU, M. DAVIS, S. MENSAH, K. IRVIN, L. OVERN, Z. DOMINGUE, S. MARLOW, R. PATI, J. JARAMILLO, A. GRIFFITH, F. PHILLIPS, D. DAMI

TASK RELEVANCE:

- ☒ Project Management
- ☒ System Engineering Analysis (SEA)
- ☒ System Development and Integration Services
- ☒ Independent Verification and Validation (IV&V)
- ☒ Strategic Implementation Planning Services
- ☒ GIS Support Services

FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	ATCMTD GRANT PROJECT: TDOT AI- DSS		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	N/A	OWNER'S NAME	Tennessee Department of Transportation	
PROJECT LOCATION	Nashville, Tennessee		OWNER'S PROJECT MANAGER	Lee Smith, PE
OWNER'S ADDRESS, PHONE, EMAIL	James K. Polk Building, Suite 1800, 505 Deaderick Street, Nashville, TN 615-253-6705 lee.j.smith@tn.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	04/21	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		\$5,200
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$678

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

With the opportunity to transform how Integrated Corridor Management (ICM) concepts are managed and deployed across the US, Stantec is working with TDOT, Vanderbilt University and the Southwest Research Institute (SwRI) on this groundbreaking project.

USDOT awarded TDOT a grant to revolutionize integrated corridor management (ICM) decision support systems (DSS) by replacing the traditional corridor-specific traffic simulation model with location-agnostic artificial intelligence which provides decision support through a transportable concept not tied to a specific corridor or location. Once fully-deployed, the AI-DSS will continue to evolve based on operator input and the ingestion of field data. If successful, the AI-DSS approach will significantly reduce the cost and time it takes to deploy DSS across Tennessee and the Country by utilizing existing ATMS datasets and integration to inform the DSS rather than a corridor-specific traffic model. The AI-DSS also is able to provide insight and suggestions to operators at a faster rate than the traditional traffic model. Initial functionality includes support for Traveler Information Messages, DMS Messages, Lane Control Signals, Variable Speed Limits, and Diversion Routing.

TDOT selected Stantec to provide Project Management, Oversight, Integration and Performance Evaluation Services on this innovative and collaborative project that is intertwined with multiple ongoing projects in the I-24 Corridor. The project has included extensive coordination with TDOT, SwRI, Vanderbilt, Contractors, ICM Staff, Transit Agencies, and Municipalities. As the Project Management consultant, Stantec coordinates and schedules all meetings and is also responsible for fulfilling all of the grant documentation requirements including developing and submitting quarterly reports and annual budget reviews to FHWA as well as annual reports to the USDOT secretary. Stantec has also developed and is maintaining the project evaluation plan and data management plan – the latter of which is being further developed in coordination with FHWA as a model document. In the oversight role, Stantec has overseen the development of the Concept of Operations, System Requirements, and overall Systems Engineering Analysis for the project. Stantec is also overseeing the software testing and implementation for both the upgrades to the SwRI-developed ATMS and the Vanderbilt-developed AI-DSS. Furthermore, Stantec is serving as the Project Evaluator, responsible for analyzing available data to track key performance indicators along the corridor limits. The Project Evaluation component is utilizing both RITIS data as well as a direct PowerBI connection to the ATMS database. Finally, Stantec has supported the system integration of the new cameras, DMS, LCS, VSL, and RDS devices into the SwRI ATMS.

TEAM MEMBERS INVOLVED: D. GOUDEAU, M. DAVIS, S. MENSAH, K. IRVIN, L. OVERN, Z. DOMINGUE, S. MARLOW, R. HAKE, R. BEBOUT, S. SIM

TASK RELEVANCE:

- ☒ Project Management
- ☒ System Engineering Analysis (SEA)
- ☒ Technical Support During Construction
- ☒ System Development and Integration Services
- ☒ Independent Verification and Validation (IV&V)
- ☒ Strategic Implementation Planning Services
- ☒ Grant Support
- ☒ GIS Support Services



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	DOTD IDIQ CONTRACT FOR ITS DESIGN AND IMPLEMENTATION SERVICES		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	4400010670	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Statewide, Louisiana		OWNER'S PROJECT MANAGER	Lucy Kimbeng
OWNER'S ADDRESS, PHONE, EMAIL		1201 Capital Access, Baton Rouge, LA 70808 225-379-2528 lucy.kimbeng@la.gov		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	10/17	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		\$3,000
SERVICES COMPLETED BY THIS FIRM (MM/YY)	10/22	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$2,868

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

Stantec has performed services under 22 task orders covering all phases of planning, design and construction through this IDIQ contract for DOTD.

Throughout this contract, Stantec has proactively managed each task order, typically multiple task orders concurrently. We have completed three regional architectures, five systems engineering analyses, nine sets of design plans and specifications and five technical support during construction services task orders. These projects feature communication network expansion, robust solar powered camera sites in remote areas, ramp metering upgrades for adaptive operation, advance queue warning system. These projects are already helping DOTD implement TSMO Strategies and Solutions such as traffic signal coordination, traffic incident management, and traveler information management across the state.

Stantec performed systems engineering analysis to mitigate risks and enhance the chances of success for the project. We identify and engage stakeholders and document their needs and preferences as related to the project purpose and scope. During this process, our team explores cost-saving measures, such as utilizing existing fiber already along the project backbone, and identifies major risks that could derail the project timeline, such as railroad permit requirements or Federal Aviation Authority restrictions on vertical structures. Stantec delivers preliminary ITS plans to DOTD to assist with the environmental clearance process and in determining a more refined project cost. Once the SEA is completed, Stantec then quickly moves to preparing Final Plans (60%, 95%, 100%). One of Stantec's primary goals during design is eliminating unknowns in order to produce a clear and concise set of construction plans.

Stantec strives to deliver these designs on time and under budget while providing the best value to our clients. After the bid process is completed and a contractor is selected, Stantec provides technical support during construction. These services vary from answering contractor RFI's during construction to conducting periodic field inspection to ensure the work is progressing timely and according to the plans and specifications. One of the most critical items on any ITS project is the selection of components that will create the overall System. Stantec closely reviews each of the contractor's proposed equipment submittals against the project plans, specifications and design intent. Our team's experience in ITS design and construction is coupled with knowledge of the available technology, allowing our evaluation of the equipment and installation to go beyond face value. Upon completion of construction, we aim to ensure that DOTD receives a system that is both functional and designed to be compatible with DOTD maintenance practices during the site commissioning and system integration testing.

TEAM MEMBERS INVOLVED: M. BRUCE, D. GOUDEAU, M. DAVIS, J. LEFANTE, S. MENSAH, L. OVERN, N. WADJE, A. GRIFFIN, Z. DOMINGUE, B. JOHNSON, K. MALPANI, F. PHILLIPS, C. MILLS, (SUBCONSULTANT: L. LAMBERT)

TASK RELEVANCE:

- ☒ Project Management
- ☒ System Engineering Analysis (SEA)
- ☒ System Engineering Design Plans
- ☒ Technical Support During Construction
- ☒ Strategic Implementation Planning Services

DESIGNED UNDER THIS IDIQ:

54 miles of fiber
14 miles of distributed power
38 camera sites
4 DMS sites
73 Traffic signal network integration
4 Solar powered sites

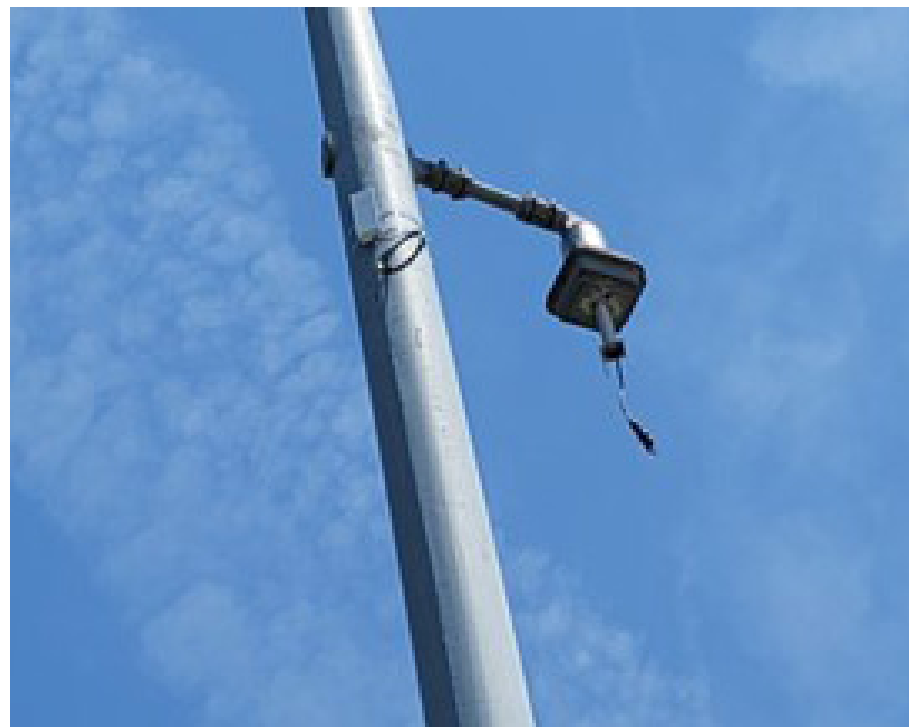


FIRM NAME	Intelligent Transportation Systems LLC (ITS LLC)		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	BONNET CARRE ITS UPGRADES		FIRM RESPONSIBILITY (prime or sub?)	Sub
PROJECT NUMBER	H.015137.1	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	St John the Baptist, St Charles and Jefferson Parishes, Louisiana		OWNER'S PROJECT MANAGER	Ben Nichols
OWNER'S ADDRESS, PHONE, EMAIL		1201 Capitol Access Road; Baton Rouge, LA 70802		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	06/23	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		N/A
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$72.6

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

ITS LLC is providing services related to the development of a systems engineering analysis (SEA) to improve mobility and safety in the I-10 and I-310 corridors by improving the services delivered using intelligent transportation systems (ITS). ITS LLC assessed the existing ITS infrastructure which included a visual assessment and site inventory, communications assessment with OTDR testing, electrical assessments with voltage data recorders, and structural assessment based on observations and unmanned aerial vehicle (UAV/drone) imagery. An operational concept was developed by the project team which identified the roles and responsibilities of participating agencies and stakeholders as well as required LADOTD officials, Louisiana State Police, and the New Orleans Regional Planning Commission. The development of project physical architecture involved the use of the System Engineering Tool for Intelligent Transportation (SET-IT).

TEAM MEMBERS INVOLVED: **J. FOX, C. DODT**



FIRM NAME	Intelligent Transportation Systems LLC (ITS LLC)		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	I-10 SCOTT TO LAKE CHARLES			FIRM RESPONSIBILITY (prime or sub?) Sub
PROJECT NUMBER	H.0132561	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Acadia, Jeff Davis, and Calcasieu Parishes, LA			OWNER'S PROJECT MANAGER Alaa Shams, P.E.
OWNER'S ADDRESS, PHONE, EMAIL		1201 Capitol Access Road; Baton Rouge, LA 70802		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	11/20	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		N/A
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$9.9

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

ITS LLC provided support during construction for this project as a subconsultant. This included attending pre-construction and monthly progress meetings, responding to Requests for Information (RFIs), reviewing equipment technical submittals, and attending construction layout visits at each site.

In the initial stages of the project, ITS LLC perform utility coordination tasks, FCC height assessments, and field assessments to location fiber and fiber pull boxes. Additionally, plans for construction were developed which indicated existing and proposed facilities for fiber optics and other communications conduit runs and hubs. Pole locations were evaluated and located such that guardrail would not be required. Generator options were identified and specified.

Once the project design was complete, ITS LLC began to perform CE&I support. This effort is ongoing as the project is still under construction.

TEAM MEMBERS INVOLVED: **J. FOX, C. DODT, J. GARRETT**

FIRM NAME	Vectura Consulting Services, LLC		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	SHREVEPORT IMMEDIATE ITS PHASE 2B		FIRM RESPONSIBILITY (prime or sub?)	Sub
PROJECT NUMBER	H.006474.1	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Shreveport, LA		OWNER'S PROJECT MANAGER	Lucy Kimbeng
OWNER'S ADDRESS, PHONE, EMAIL		1201 Capitol Access Road, Baton Rouge, LA 70802 (225) 379-2528 lucy.kimbeng@la.gov		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	03/18	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		N/A
SERVICES COMPLETED BY THIS FIRM (MM/YY)	06/18	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$18.302

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

As a subconsultant, Vectura was the task leader for procurement and alternative analysis configuration portions of the systems engineering analysis (SEA) that complied with Code of Federal Regulations (CFR), Title 23, 940.11.

The Alternatives Analysis Configuration consisted of analyzing three possible project configurations. The pros and cons of the needed equipment and communication options were documented. This task consisted of a field visit with DOTD staff to verify fiber optic lines, junction boxes and traffic signal controller types.

The Procurement task consisted of investigating the methods of procurement for the deployment project where the procurement options the pros and cons for each method were documented.

This project was 100% performed in Louisiana.

TEAM MEMBERS INVOLVED: **B. FERLITO, L. LAMBERT**



FIRM NAME	Vectura Consulting Services, LLC		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	I-110 ITS DEPLOYMENT SEA		FIRM RESPONSIBILITY (prime or sub?)	Sub
PROJECT NUMBER	H.013261.1-1	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Baton Rouge, LA		OWNER'S PROJECT MANAGER	Alaa Shams
OWNER'S ADDRESS, PHONE, EMAIL		1201 Capitol Access Road, Baton Rouge, LA 70802 (225) 379-1497 alaa.shams@la.gov		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	09/18	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		N/A
SERVICES COMPLETED BY THIS FIRM (MM/YY)	12/18	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$16.363

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

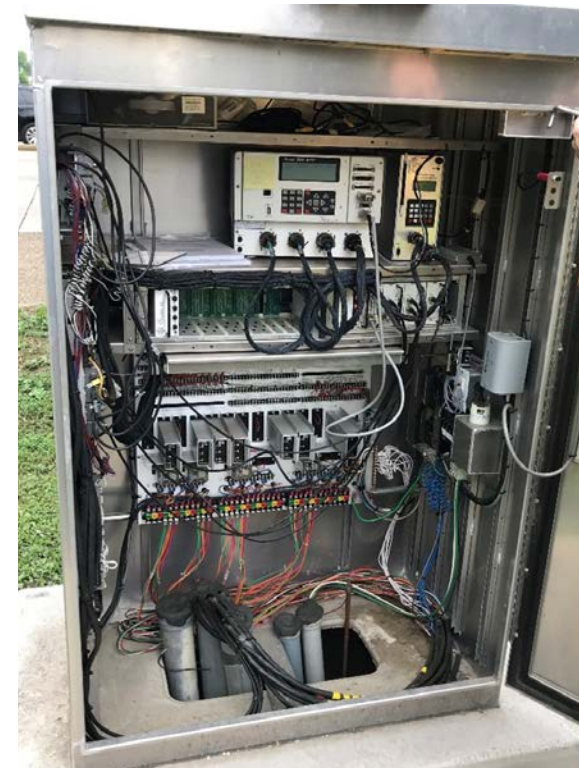
Vectura provided an alternatives analysis configuration and procurement analysis as part of a systems engineering analysis (SEA) for I-110 CCTV cameras and DMS deployment to comply with Code of Federal Regulations (CFR), Title 23, 940.11.

The alternative analysis consisted of a field visit along the I-110 corridor to examine CCTV and DMS locations. As part of the field visit, drones were flown at the proposed heights of the CCTV's and DMS's to determine if any sight line issues were present. Also included in the site visit was the evaluation of connecting three pump stations and traffic signals to the proposed fiber optic line. Three possible project configurations were developed for this task along with pros and cons of the needed equipment and communication options.

Vectura also investigated the methods of procurement for the deployment project. Procurement options were documented with the identification of the pros and cons for each method.

This project was 100% performed in Louisiana.

TEAM MEMBERS INVOLVED: **B. FERLITO, L. LAMBERT**



FIRM NAME	Skyline Technology Solutions, LLC		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	ITS
PROJECT NAME	networkMARYLAND		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	BPM023062	OWNER'S NAME	Department of Information Technology, State of Maryland	
PROJECT LOCATION	Statewide Managed Services and Consulting		OWNER'S PROJECT MANAGER	Brenda Bejan, PhD
OWNER'S ADDRESS, PHONE, EMAIL		100 Community Place, Crownsville, MD 21032		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	07/22	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		\$109,000
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$109,000

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

Skyline provides architecture, design, engineering, and operational support to the Maryland Department of Information Technology (DoIT) for a wide array of services aligned with American Association of Motor Vehicle Administrators (AAMVA) requirements.

Skyline began in 2004 as a subcontractor and has been serving as the prime contractor since 2010. We have won three contract recompetes, proving our valued strategic partnership and quality of services delivered. DoIT leadership has stated that their partnership with Skyline, via the networkMaryland™ contract, has saved the state over \$110M annually in broadband telecommunications costs and provides a more reliable, resilient, secure, and faster network than carriers deliver.

Over that time, the scope of services DoIT entrusts to Skyline has significantly grown from \$7M annually to \$30+M annually today and is budgeted to continue to grow in scope. DoIT's trust in Skyline's service delivery has grown from the original base scope to the current scope shown:

Original Scope: Carrier class architecture, design, network engineering, operations, 24x7 NOC Service, and provisioning. Statewide logistics and asset management CMDB and warehouse receiving /dispatch services.

Current Scope: Statewide enterprise LAN. Email consolidation and migrations. Enterprise wireless services. Systems development, GIS, SharePoint, ServiceNow, Google, and other applications. SharePoint and WordPress web services and application performance management. Cloud infrastructure and automation. DNS management. SOC development and operations. MDR (managed detection and response). Cyber remediation. ATO assessments. Identity access management. Security policy development and consulting services. Cybersecurity infrastructure engineering. Firewall management. Strategic planning. Project management services.

The breadth of the DoIT networkMaryland™ services entails the annual processing of 6,100 incident tickets, 500 change implementations, and the provisioning of approximately 400 circuits per year for over 2,150 state and local facility sites.

TEAM MEMBERS INVOLVED: **M. HOLLERBACH, J. PRESCOTT**



Sections 18

Photo from the Connected and Autonomous Vehicle (CAV) Working Group Kick-Off Meeting

18. **Approach and Methodology:**

PROJECT UNDERSTANDING

The intelligent transportation systems (ITS) landscape is rapidly evolving, driven by advancements in infrastructure, back office, and vehicle-based technologies. Transportation agencies now have access to overwhelming amounts of data from direct field collection, third parties, connected and automated vehicle (CAV) technologies, and emerging artificial intelligence (AI) applications. With the promise of new capabilities and benefits to our transportation network that these technologies bring, transportation agencies are faced with the challenge of avoiding the “solution in search of a problem” mentality. **Maintaining a vendor and technology agnostic approach will be a critical for DOTD to realize a strong return on investment from new ITS strategies and infrastructure deployments.**

Developing solutions based on real-world transportation problems will require a **rigorous and objective systems engineering approach that directly evolves user needs into system requirements to achieve the desired outcomes for vested stakeholders**, including end user operations and maintenance staff. Stantec has assembled a team of experts with experience understanding and harnessing the technology that best solves the challenges that DOTD and their traveling public face each day. We are dedicated to plan for, analyze, design, develop, implement, and integrate and validate ITS solutions for DOTD as a trusted partner on achieving key Department objectives such as Destination Zero Deaths.

The scope of this IDIQ covers the full ITS project lifecycle from planning through design, construction, integration, and testing before the system goes into operation. Anticipated task orders within this contract include the owner’s oversight of the advanced traffic management system (ATMS), advanced traveler information system (ATIS), and video distribution management system software deployment as well as the continued facilitation of DOTD’s CAV Working Group. As the current facilitator of DOTD’s CAV Working Group, **Stantec is uniquely positioned to align emerging technologies with existing ITS strategies when achievable, meaningful, and driven by market adoption.** In addition to our unmatched DOTD ITS experience, we bring the benefit of innovative solutions from our global staff of professionals.

6DOTD ITS IDIQ
Contracts**14**

Years

100+

Task Orders

PROJECT MANAGEMENT

Effective IDIQ contract management will involve both proactive program management and successful delivery of individual task orders. **Stantec has a proven track record in both capacities, successfully managing six DOTD ITS IDIQ contracts over the past 14 years, which have included over 100 task orders performing the same scope described in this advertisement. Derrick Goudeau has**

been managing, planning, designing, and supporting DOTD ITS projects for over 20 years and is well suited to continue the role of Project Manager for this contract. Derrick will work as an extension of DOTD staff to proactively identify upcoming tasks, program management support needs, alignment opportunities with other ITS programs such as the CAV Working Group. For each task order, he will assist DOTD in developing the scope and **assemble a team with the right expertise and capacity from our combined bench of five firms with 80+ local professionals.** Our staff is proficient throughout the ITS project lifecycle, allowing us to adapt and scale the team to fit your needs. Throughout the contract, Derrick will utilize Stantec’s Project Management Framework and ISO 9001:2008-compliant quality management system to deliver tasks on time, on budget, and with the high degree of quality DOTD expects.



Collaborating across offices. No matter where we are, we’re committed to improving our transportation network.



COORDINATION MEETINGS & PROJECT REPORTING

Communication is critical to achieving project success. Derrick will provide monthly progress reports as well as recurring and ad-hoc hybrid (in-person and virtual options) meetings with the DOTD ITS Section to discuss project challenges, opportunities, and delivery schedule. We have extensive experience providing project level reporting in a format to suit the DOTD ITS project manager’s needs. **We also bring relationships and experience working with most sections throughout DOTD to help DOTD’s ITS section achieve success on initiatives that span across disciplines** such as is the case with the DOTD CAV Working Group. Finally, we provide DOTD with stakeholder engagement expertise that can help facilitate key aspects of planning and systems engineering efforts – enhancing the likelihood of downstream implemented solutions meeting the needs of the end users.

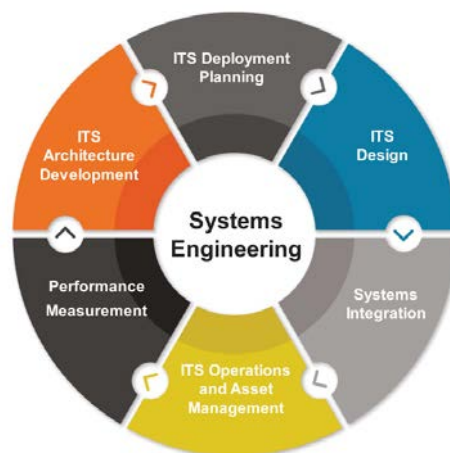
SYSTEMS ENGINEERING ANALYSES (SEA)

SEA is the project-level planning process that initiates each federally-funded ITS project. Beyond being a federal requirement, systems engineering provides a structured process to ensure a project's goals are clearly defined and can be met during implementation with defined operational and maintenance concepts. Our team has developed extensive SEA reports for DOTD and other clients following the Code of Federal Regulations, Title 23, 940.11 and the FHWA Systems Engineering Guidebook for ITS. We will follow these guidelines for the SEA process to identify relevant components of the regional ITS architecture, stakeholders, and user needs to define the concept of operations, evaluate alternative system configurations and technology, explore procurement options, and define ITS standards and testing procedures for a successful implementation.

Our SEA Task Lead, **Stephen Mensah**, brings deep DOTD institutional knowledge as the author of all of the current statewide and regional ITS architectures within Louisiana. Under his direction, **our team recently completed the SEA for replacement of the DOTD ATMS and 511 ATIS** which are the primary systems for control of the statewide ITS and distribution of information to the traveling public. Our team will apply its expansive knowledge on emerging technologies and practices in the ITS field to provide innovative yet feasible and maintainable solutions for each project. We will develop each SEA using the Systems Engineering Tool for Intelligent Transportation (SET-IT) software from the USDOT to leverage content within the Regional Architecture Development for Intelligent Transportation (RAD-IT) database. Depending on the project, the SEA phase may also include high-level 30% plans as a deliverable to conceptually demonstrate the proposed project.

SYSTEMS ENGINEERING DESIGN PLANS AND TECHNICAL SUPPORT DURING CONSTRUCTION

Once the SEA phase is completed, the detailed design and specification phase can begin. **Derrick Goudeau** will draw on his long track record of DOTD ITS project delivery to lead development of ITS plans and specifications to deploy the desired system. Our team has designed hundreds of projects for DOTD and other state and municipal clients deploying communication (fiber and wireless), power (utility and solar), and ITS devices for monitoring and messaging. Our



project portfolio includes innovative traffic management strategies such as ramp meters and advance queue warning systems, both of which were the first of their kind deployments in Louisiana. Our SEA experts will continue to assist during the design phase, providing verification that system requirements defined in the previous phase are met by the selected design solution. Where required, our additional support staff includes experienced local transportation engineers for foundation and structural design, transportation management plans, traffic control, and traffic engineering process and report certification. Furthermore, Derrick and our other electrical engineers bring robust electrical engineering expertise to provide unique solutions throughout the design process. The design process will include the development of any new or modified ITS specifications as well as quantity development and associated cost estimates.

Once a project moves from design to construction, our team will shift to a support role to provide engineering services as needed. Our team has routinely provided construction support services to DOTD for each ITS project we design. Typically, this includes review of contractor's equipment submittals for conformance to the plans and specifications, response to contractor's request for information, providing field observations of construction activities, participation in commissioning and system integration testing, and reviewing contractor's as-built drawings. If needed, our engineers can provide revised designs, plans, and specifications to adapt to differing field conditions. **ITS, LLC provides an additional perspective to the design and construction support team with their exhaustive knowledge of DOTD's existing ITS deployments through consecutive ITS maintenance IDIQ contracts.** Their unique insight provides additional guidance in design considerations for maintenance challenges, accessibility, and proper installation procedures during construction.



SYSTEM DEVELOPMENT AND INTEGRATION SERVICES

System integration is the critical step of project delivery during which technology planning and design meets the human interface to provide value to users of the transportation network. While the design and construction phases focus on the physical deployment of edge devices and communication infrastructure, system development advances the enabling software and supporting hardware (workstations, servers, etc.). System development is the heart of any ITS project, defining how the various parts fit and work together. System integration is the process of connecting various sub-systems together for seamless functionality for both operators and end users. Furthermore, integrated systems support emerging technologies by consolidating data to be leveraged through advanced analytics.

Our team has a deep understanding of the critical need for software systems in the traffic management center (TMC) to be efficient and effective. TMC operators have hundreds of miles of road network to monitor and need to be able to manage incidents with an intuitive interface, minimizing effort and avoiding duplicate data entry in various systems. **Our team has deployed custom ITS and transportation related applications, developed AI and machine learning packages, provided data analytics and performance reporting, and provided integration services for dozens of state and federal agencies.** Our System Development Task Lead, **Andrew Preston**, brings over 14 years of experience with building custom applications and managing software development and will be supported by our System Integration Task Lead, **Kyle Irvin**, who draws on an impressive 35 years of ITS design and integration experience from projects across North America and beyond. Our team will work closely with the DOTD ITS section to develop and integrate new and existing software, field device systems, pilot projects, dashboards, and performance measures to improve traffic management and operations for the ITS section. Skyline Technologies will support system development and integration with their expertise in software development, network architecture, and cybersecurity.

INDEPENDENT VERIFICATION AND VALIDATION (IV&V)

Verification and validation are critical steps in the systems engineering process. As a project nears completion, verification provides confirmation that each of the system requirements are met through testing of the sub-system components, both individually and as a whole. Validation is the confirmation that the system meets the intended purpose described in the concept of operations. Whether the system is an ITS field device deployment or a software deployment, our team will provide staff independent from the design and development process to perform IV&V services. IV&V will be conducted via the development of a test plan that includes detailed testing sequences to verify and validate the functionality

of the deployed system. The key to a rigorous test plan is a deep understanding of an ITS deployment from planning to design, construction and maintenance. Our team is built to deliver just that. **Larry Overn** has extensive experience in system engineering, design, integration, and testing of ITS deployments and will serve as IV&V Task Lead. **Jonathan Fox** will provide additional support to the IV&V task with his experience in management and operations, system diagnostics and troubleshooting, system testing, and system maintenance of DOTD's ITS systems.



+ CAV Working Group Support

STRATEGIC IMPLEMENTATION PLANNING SERVICES

Our team is up to the task of leading strategic implementation planning tasks and Greg Rodriguez will provide a unique background and expertise to lead this task. As Stantec's Mobility Policy Principal, he is currently leading our team in supporting DOTD's CAV Working Group as we help DOTD explore your position in the CAV deployment space, identify opportunities for funding, and inform policy, legislative and regulatory considerations related to CAVs. **Stantec has helped clients secure more than \$8 billion in discretionary grant and loan funding, including a SMART grant for the Shreveport Area Transit System.** We are monitoring these funding opportunities and will collaborate with DOTD, Louisiana Transportation Research Center (LTRC), local agencies, and universities to assist in grant applications for innovating projects in Louisiana. Through grant funding or other traditional funding sources, Stantec is also primed to support DOTD's ITS research initiatives and the facilitation of pilot projects, as we have done with initiatives such as the vehicle detection and ongoing environmental sensor system pilots to determine the effectiveness and reliability of different data collection sensor solutions.

Our team is well-informed when it comes to the ITS planning documents as we have developed and updated the Statewide and each of the ten region's ITS architectures over the years. Similar to our supporting role on the DOTD CAV Working Group, we will lend our expertise to provide program assistance and advise on emerging technologies, policies, assist in pilot projects, and perform research tasks to support the ITS section.

Deliverables

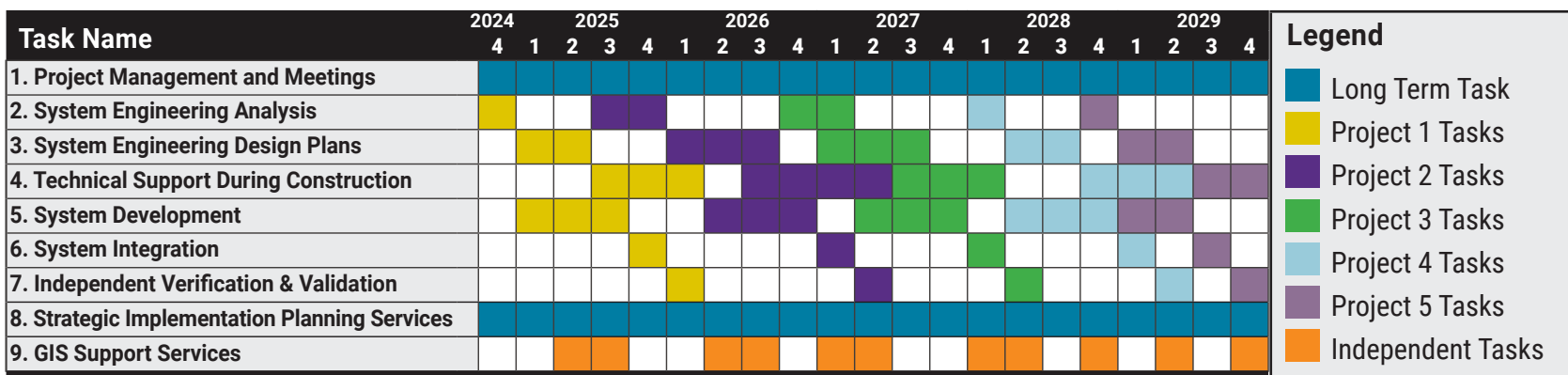
Our team has extensive experience delivering projects in conformance with DOTD's CAD standards and standards for electronic plans delivery, as well as the requirements of the DOTD ITS section. The specifics of each deliverable will be developed between the Stantec team and the ITS Project Manager prior to the start of each task order to ensure we can meet and exceed expectations. Each deliverable will undergo a detailed quality control review by a team member as well as an independent Quality Assurance review by a senior staff member.

Added Value

In addition to the scope of services in the advertisement, we are pleased to add Skyline Technology Solutions to the Stantec team. They are an industry leader in cybersecurity and network architecture design and management and have provided these services to state DOTs and other agencies across the US. Skyline's comprehensive cyber security approach analyzes a customer's current posture and practices to establish a cybersecurity strategy, implement the strategy, and provide continuous monitoring and program improvement. Skyline also provides a wide array of network engineering and implementation services tailored to meet the customer's needs. They provide right-sized solutions to fit single campus deployments up to geographically dispersed statewide networks.

SCHEDULE

Our team has a deep bench to provide DOTD with the resources to deliver tasks within DOTD's desired schedule. While many of the services will have sequential tasks, our team is structured to allow each functional working group to begin the next project as the current projects are transitioned to the next development stage. For example, our task lead will remain involved as a design project moves into construction, but the remainder of the design team will be free to begin the next design task. Even though team members will shift focus to a new task, our staff remains available to support any task in progress. We are also prepared to support long duration tasks, like the CAV working group support, which may involve research and support efforts that span the duration of the contract. The schedule below shows a combination of long term tasks like project management and planning services, along with development of 5 projects from SEA through IV&V. We envision GIS support services maybe independent or tied to project tasks. Whatever the task, our team is prepared to deliver!



"Design process was conducted in a professional and timely manner. Communication was open and ongoing throughout the entire design process and all final agreed upon milestone dates were met. Each section of the plans was designed properly according to processes and spec."
LADOTD, ITS Section



WHAT OUR CLIENTS ARE SAYING

"Just finished my review of the ITS Deployment Plan, and I'd give it high remarks!"
Josh Brown, TDOT, Director,
 Traffic Operations Division

"Stantec brought a lot of relevant experience having deployed numerous regional ITS architectures around the country along with most of the ones in Louisiana."
LADOTD Technical Evaluator



Sections 19 - 23

Photo from **DOTD H.006831**
Baton Rouge ITS Deployment Phase 3

19. **Workload:**

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

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

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

FIRM(s) All firms must be represented in this table	Past Performance Evaluation Discipline(S)*	CONTRACT NUMBER AND STATE PROJECT NUMBER	PROJECT NAME	REMAINING UNPAID BALANCE**
Stantec Consulting Services Inc.		Contract No. 4400024629 S. P. No. H.005967.6	Nelson Road Ext. Bridge [Calcasieu Parish, Louisiana]	
	CE&I/OV		CE&I and Construction Support	\$405,406
	Road		Striping Pln. Changes	\$4,610
	Other (Lighting)		Roadway & Nav. Lighting	\$42,863
Stantec Consulting Services Inc.		Contract No. 440004128 S. P. No. H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]	
	Planning		Prog. Mgmt.; Context Sensitive Design Process; Impl. Strategies	\$801,500
	Traffic		Traffic Engineering	\$154,379
	ITS		ITS	\$29,479
	Road		Geometric Design/Analysis	\$513,716
	Bridge		Structure & Bridge	\$432,426
	ROW		ROW Acquisition	\$69,646
	Survey		Survey	\$22,731
	Other(PR; Lighting; Aviation)		Public Relations/Comm.; Lighting; Aviation	\$73,899
Stantec Consulting Services Inc.	Other (Lighting)	Contract No.4400011353 S. P. No. H.014302.6	IDIQ Contract for Electrical Services (Sub to Buchart Horn, Inc.) [Statewide, LA]	
			H.014302.6 US 165 Roadway Lighting [Ouachita Parish]	\$16,718
Stantec Consulting Services Inc.		S. P. No. H.011670	Loyola Dr./I-10 Interchange to New Airport Terminal Design Build (Sub to Gilchrist Co., LLC) [Jefferson Parish]	
	Road		Roadway	\$41,726
	CE&I/OV		CE&I/OV	N/A
	Bridge		Bridge	N/A
	Other (Lighting)		Lighting	\$25,803

Stantec Consulting Services Inc.	Traffic/ITS	Contract No.4400020058	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services [Statewide, Louisiana]	
			H.012374.05 I-12: Essen Ln to Walker Rd. ITS Ramp Meter Upgrades SA #1 [East Baton Rouge & Livingston Parishes]	\$31,939
			H.013710.6 I-10: US-61 to Laplace ITS Deployment [Ascension, St. James & St. John Parishes]	\$7,354
			H.015136 Statewide ITS Architecture Update [Statewide]	N/A
			H.013261.6 I-110 ITS Deployment [EBR Parish]	\$19,363
			H.011152.6 I-12: US 190 to LA 59 [St. Tammany Parish]	\$34,813
			H.013866.6 I-12: LA 21 to US 190 [St. Tammany Parish]	\$22,105
			H.003047.6 I-10: Pecue Lane/I-10 Interchange Phase III [EBR Parish]	\$30,419
			H.002424.6 LA 70: Sunshine Bridge - LA 22 [St. James & Ascension Parishes]	\$21,520
			H.015137.1 Bonnet Carre ITS Upgrades [St. John the Baptist, St. Charles & Jefferson Parishes]	\$52,259
			T.O. 16 I-10 WBR Queue Warning System [Iberville & WBR Parishes]	\$163,902
			T.O. 17 New Orleans Regional Arch Updates [Orleans, St. Tammany & Tangipahoa Parishes]	\$45,719
			T.O. 18 Shreveport Phase 2b ITS SEA Updates [Caddo Parish]	\$10,329
			T.O. 19 Monroe Phase 3 SEA [Ouachita Parish]	\$21,556
Stantec Consulting Services Inc.	Other (Lighting)	Contract No. 4400020064	IDIQ Contract for Electrical Services [Statewide, LA]	
			H.014272.5 I-10: LA 97 (Jennings) Interchange Lighting [Jefferson Davis Parish]	N/A
			H.014287.5 I-10: LA 99 (Welsh) Interchange Lighting [Jefferson Davis Parish]	\$6,937
			H.014286.6 I-10: LA 26 (Jennings) Intchg Lighting [Jefferson Davis Parish]	\$113,465
			H.014272.6 I-10: LA 97 (Jennings) Intchg Lighting [Jefferson Davis Parish]	\$128,364
Stantec Consulting Services Inc.		Contract No. 4400024461 S. P. No. H.012685.5	LA 385: Ryan Street Intersection Improvements [Calcasieu Parish]	
	Traffic		Traffic Study; Signal Design	\$104,721
	Road		Roadway Design; Drainage	\$75,876
Stantec Consulting Services Inc.		Contract No. 4400022901 S. P. Nos. H.011094.5	LA 3094: Hearne Ave. Bridge and US 80: KCS RR Overpass (HBI) [Caddo Parish]	
	Road		Roadway	\$321,834
	Bridge		Bridge	\$373,944
Stantec Consulting Services Inc.	Right-of-Way	Contract No. 1 S. P. No. H.011670	State of LA, DOTD versus 2845 Loyola Blvd., LLC ET AL [Jefferson Parish]	
			Right-of-Way Expert Witness	\$6,050

Stantec Consulting Services Inc.	Other (C&AV)	Contract No 44-17922	IDIQ Contract for Intelligent Transportation Systems (ITS) System Design, Integration and System Verification Services [Statewide, LA]	
			H.012845.1 Connected & Autonomous Vehicles - Team Support [Statewide]	\$114,244
Stantec Consulting Services Inc.	Other (Lighting)	Contract No. 44-04761	I-12 to Bush Corridor, LA 3241: I-12 to LA 36 (Sub to Evans-Graves Engineering, Inc.) [St. Tammany Parish]	
			H.004957.5 I-12/LA 434 Lighting Project	\$5,781
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013256.6	I-10 ITS Scott to Lake Charles - Construction	N/A
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013710.6	I-10: US61 to LaPlace Deployment	\$18,961
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.007160	EBR Computerized Signal Phase VB	\$19,995
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.001234.6	LA1 Port Allen Canal BR Replacement	\$14,291
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013868.6(A)	ITS Routine Maintenance Engineering and Inspection (ME&I)	\$129,583
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013868.6 (B)	ITS Responsive/Emergency ME&I Statewide	\$48,280
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013868.5	ITS Maintenance Program Management and Operations	\$2,679
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.011504	Alexandria Phase 2	\$27,685
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.002424.6	LA 70: Sunshine Bridge – LA 22	\$18,768
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.003047	Pecue Lane/I-10 Interchange Phase III	\$22,841
Intelligent Transportation Systems LLC (ITS LLC)	Traffic	44-24461	LA 385 – Ryan St Intersection Improvements	\$180,000
Intelligent Transportation Systems LLC (ITS LLC)	Traffic	44-21887	Replacement of Fifteen Bridges	\$79,573
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.006474.1	Shreveport Immediate ITS SEA/Design	\$18,760
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.012845.1	CAV Team Support	\$140,307
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013482	I-10 WBR Queue Warning	\$122,508
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013866	I-12: LA 21 to US 190	\$8,678
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.014515.5	511 & ATMS SEA	\$77,385

Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.015136.1	Northshore Regional Architecture	\$19,757
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.015137	Bonnet Carre ITS Upgrades SEA	\$32,384
Vectura Consulting Services, LLC	Traffic	4400017293; H.010616	I-20: LA 544 Overpass Replacement	\$74,429
Vectura Consulting Services, LLC	Traffic	4400005484; H.005168.2	New Orleans Rail Gateway Avondale EA	\$92,995
Vectura Consulting Services, LLC	CE&I/OV	4400020018; H.007160	EBR Computerized Traffic Signal, Ph VB	\$33,910
Vectura Consulting Services, LLC	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$14,740
Vectura Consulting Services, LLC	Traffic	4400021519; H.012030.5	KCS RR Overpasses HBI	\$572
Vectura Consulting Services, LLC	Traffic	4400023075; H.013522	S. Lewis Street Widening	\$7,499
Vectura Consulting Services, LLC	ITS	4400016364; H.015136.4	Northshore Regional ITS Architecture Update	\$11,421
Vectura Consulting Services, LLC	ITS	4400017922; H.012845.1	C/AV Team and Working Group Support	\$13,949
Vectura Consulting Services, LLC	ITS	44000020058; H.011507.1	Monroe Phase 3 SEA	\$29,217
Vectura Consulting Services, LLC	Traffic	4400018271; H.014746.5	LA 383 Stage 0 Corridor Study	\$22,388
ASE Services, Inc.	N/A	N/A	N/A	N/A
Skyline Technology Solutions, LLC	N/A	N/A	N/A	N/A

DO NOT SUM

(Add rows as needed)

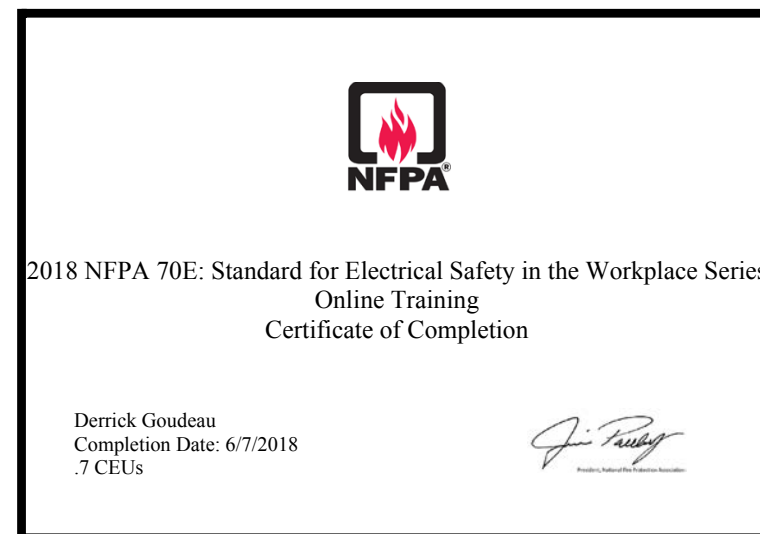
*The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single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

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, please place N/A in the remaining unpaid balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

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

Certificate of Attendance

Page 1 of 1



Certificate of Completion

presented to

Mike Bruce

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 4

Poly J. Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

Greg Brummett
Authorized instructor



Certificate of Completion

presented to

Mike Bruce

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

Poly J. Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

Greg Brummett
Authorized instructor



Certificate of Completion

presented to

Mike Bruce

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 4

Poly J. Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

Greg Brummett
Authorized instructor



Certificate of Completion

presented to

Matt Davis

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 2

Poly J. Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

Greg Brummett
Authorized instructor



Certificate of Completion

presented to

Matt Davis

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



View

Certification Type Professional Traffic Operations Engineer®

Certification Number 3914

Application Date
Received

Certification Date 7/21/2015

Agreed to Privacy
Policy

Ethics Statement of
Renewal

Signed Obligation
Statement

Reasonable Testing
Accommodati

Don't Share My
Information EU

TPCB Status Active

Application Status

Audit No

Expiration Date 7/21/2024

Examination Date

Results Passed

Date of Initial PE

PE License Issuing
State

PE License Number 0

PE License Expiration
Date

Type of ID

Unique Number

PE Classification

Certificate of Completion

presented to

Matt Davis

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: February 26, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Transportation Professional Certification Board Inc.

certifies that

Matthew Jared Davis

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3914 issued in Washington, D.C., U.S.A.*

July 21, 2015

[Signature]
Chair



[Signature]
Executive Director

From: info@tte.org
 To: Mensah, Stephen
 Subject: TPCB Renewal Approval Notice
 Date: Wednesday, December 22, 2021 9:50:16 AM

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org



Stephen A. Mensah, PhD, P.E., PTOE, RSP1
 Stantec

Thank you for renewing your certification as a Professional Traffic Operations Engineer® (PTOE). The Transportation Professional Certification Board (TPCB) congratulates you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 11/18/2024.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements described in the enclosed attachment.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within three-months of your expiration date 11/18/2024. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. <http://www.tpcb.org/PTOE/feeschedule.asp>

TPCB seeks to maintain the highest level of quality for its certification programs. Since its inception, the TPCB has required its certificants to maintain records with regard to fulfillment of continuing education requirements. Please be advised that as of January 1, 2018, TPCB is phasing in a policy in which 20% of certificant renewals will be randomly selected for audit and the certificant will be required to provide documentation (certificates of completion, course syllabus, meeting agenda/registration, etc.) to demonstrate fulfillment of continuing education requirements. The professional record-keeping system available from ITE, provides a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation.

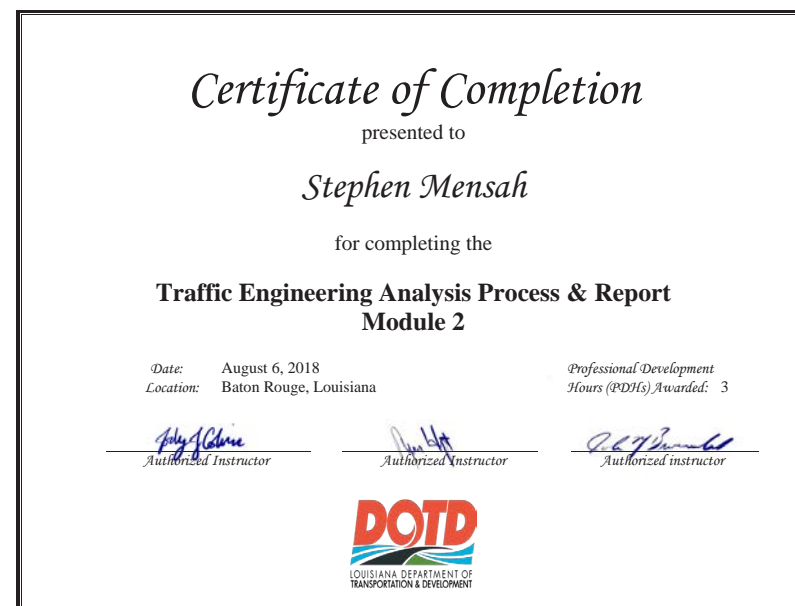
The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB web site was redesigned and a new certification – the Road Safety Professional – was launched. Going forward the TPCB is committed to expanding the awareness of its certification programs, encouraging jurisdictions to give preference to certificants and growing the number of certified professionals.

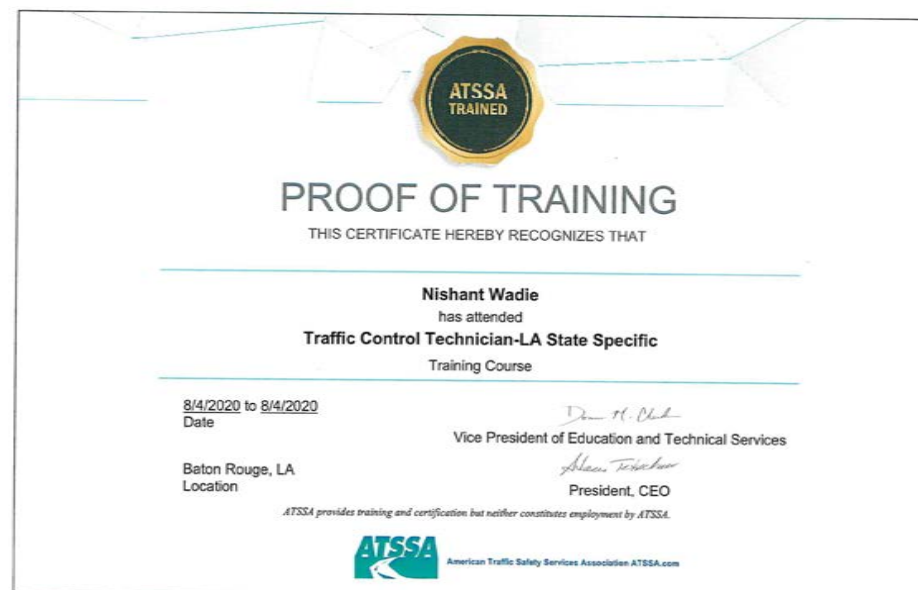
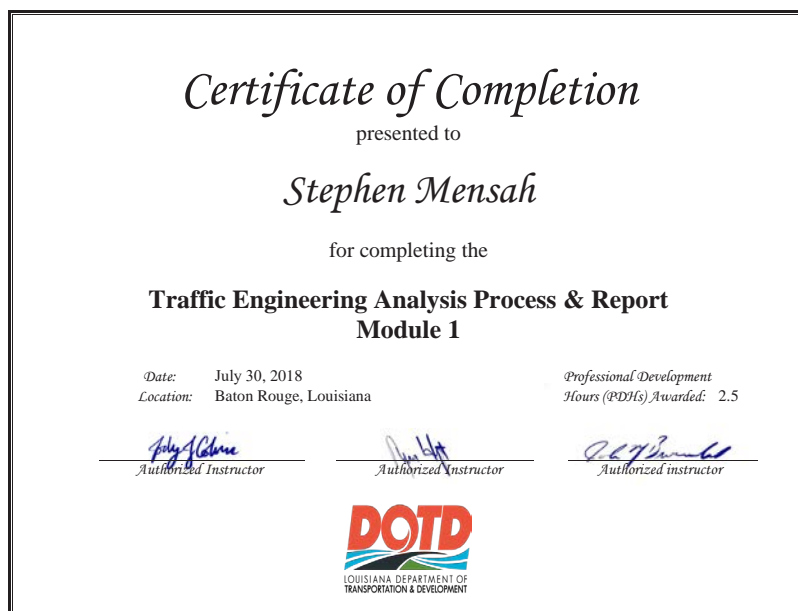
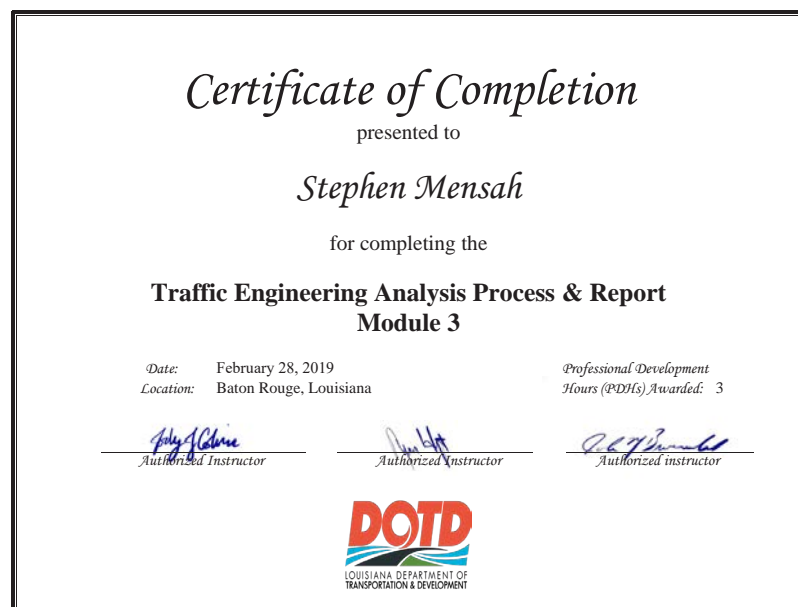
The TPCB distributes a quarterly newsletter and highlights the value of its certification programs through the [tpcb.org](http://www.tpcb.org) website. If you would like to contribute to the newsletter or website, please send any items of interest to: certification@tpcb.org.

Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Deborah L. Snyder, P.E., PTOE
 Chair, Transportation Professional Certification Board Inc.







Kyle D. Irvin

is hereby certified as a

IMSA Traffic Sig. Insp. Adv. Technologies -Renewal
by completing all requirements and examination for certification
on 1/16/2024

Valid thru 1/16/2027
Certification #AT_51507

Toby Cummings
Toby Cummings - Executive Director



Kyle D. Irvin

is hereby certified as a

IMSA Traffic Signal Inspector - Renewal
by completing all requirements and examination for certification
on 1/16/2024

Valid thru 1/16/2027
Certification #SI_51507

Toby Cummings
Toby Cummings - Executive Director



Kyle D. Irvin

is hereby certified as a

IMSA Traffic Sig. Sr. Field Tech III - Renewal
by completing all requirements and examination for certification
on 1/16/2024

Valid thru 1/16/2027
Certification #CE_51507

Toby Cummings
Toby Cummings - Executive Director

Certificate of Completion

presented to

Andrew Griffith

for completing the

**Traffic Engineering Analysis Process & Report
Module 1**

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

Professional Development
Hours (PDHs) Awarded: 2

Toby Cummings
Authorized Instructor

John Hitt
Authorized Instructor

John Hitt
Authorized instructor



Certificate of Completion

presented to

Andrew Griffith

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Certification Type
Professional Traffic Operations Engineer®

TPCB Status Active

Certification Number 3560

Application Status

**Application Date
Received**

Audit Yes

Certification Date 11/20/2013

Expiration Date 11/20/2025

**Agreed to Privacy
Policy**

Examination Date

**Ethics Statement of
Renewal**

Results Passed

**Signed Obligation
Statement**

Date of Initial PE

**Reasonable Testing
Accommodati**

**PE License Issuing
State**

**Don't Share My
Information EU**

PE License Number 0

**PE License Expiration
Date**

Certificate of Completion

presented to

Andrew Griffith

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Transportation Professional Certification Board Inc.

certifies that

Joseph Michael Lefante

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 3560, issued in Washington, D.C., U.S.A.

November 20, 2013

Timothy P. Harpist
Chair



[Signature]
Executive Director

Certificate of Completion

presented to

Joey Lefante

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

Joey Lefante
Authorized Instructor

Joey Lefante
Authorized Instructor

Joey Lefante
Authorized instructor



Certificate of Completion

presented to

Joey Lefante

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 2

Joey Lefante
Authorized Instructor

Joey Lefante
Authorized Instructor

Joey Lefante
Authorized instructor



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joseph Lefante
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/24/2022 to 6/24/2026
Training Valid Through

Baton Rouge, LA
Location

Joseph Lefante
Director of Training
Joseph Lefante
President, CEO

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



American Traffic Safety Services Association ATSSA.com

Certificate of Completion

presented to

Joey Lefante

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

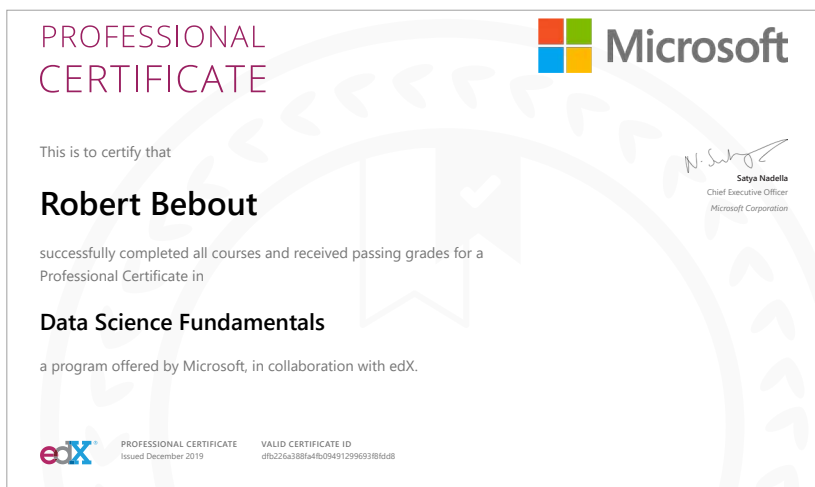
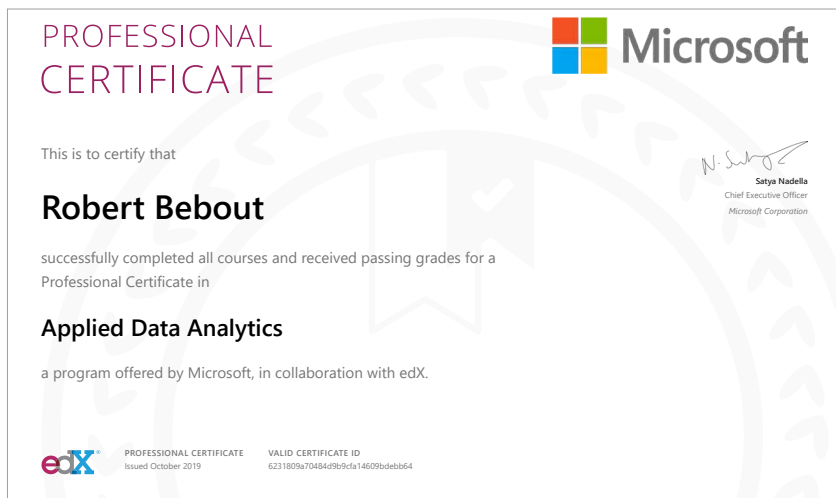
Professional Development
Hours (PDHs) Awarded: 3

Joey Lefante
Authorized Instructor

Joey Lefante
Authorized Instructor

Joey Lefante
Authorized instructor







NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION

2020 NFPA 70: National Electrical Code (NEC) Online
Training Series

FRANK PHILLIPS

Completion Date: October 27, 2022
CEUs: 1.0 or 10 hours



Jim Pauling
President, National Fire Protection Association

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.

GIS Certification Institute

This is to certify that The Board of Directors of the GIS Certification Institute,
Upon the recommendation of the Executive Director, has conferred upon

Susan Marlow

the distinction of

Geographic Information Systems Professional

GISP

Certificate Number 90479

Date of Initial Certification 3/25/2015

Date of Expiration 3/25/2026

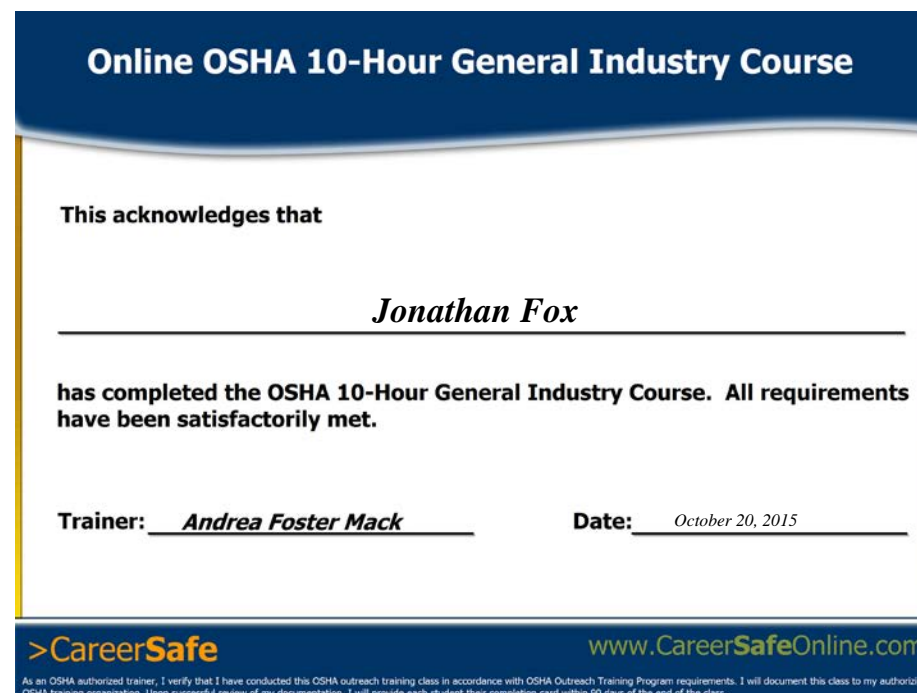
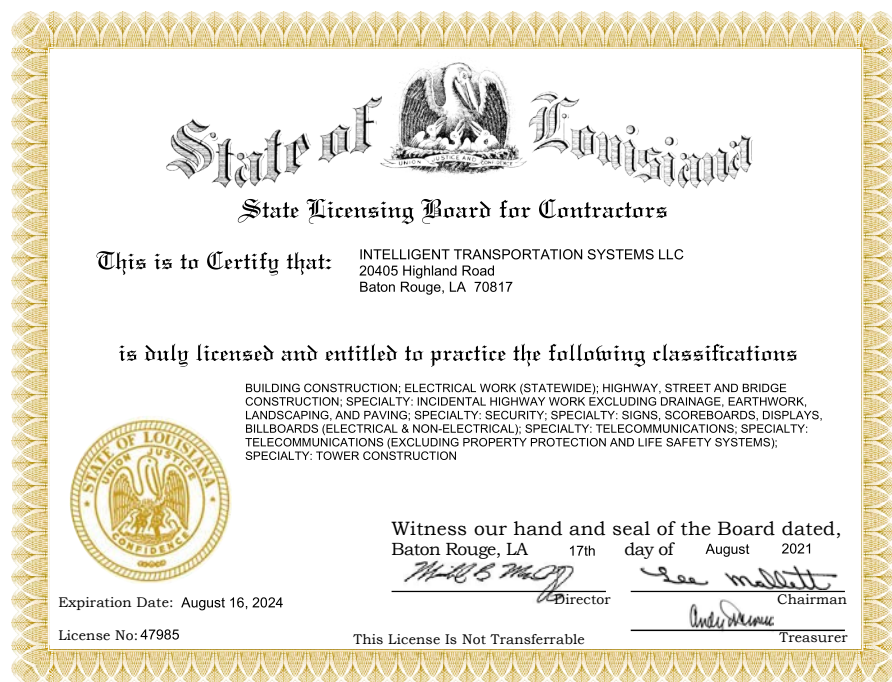
Jochen Albrecht

Jochen Albrecht
GISCI President



Anthony Spicci

Anthony Spicci, GISP
GISCI Executive Director



LOUISIANA STATE CIVIL SERVICE

acknowledges that

Jonathan Nicolas Fox

has successfully completed the training course:

CPTP SCS Cybersecurity WBT

on

May 04, 2022

This document is intended to be used solely for the purpose of
documenting the individual's completion of

SCS's web-based training:
CPTP SCS Cybersecurity WBT



STATECIVILSERVICE

Transportation Professional Certification Board Inc.

certifies that

Jonathan Nicolas Fox

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 2329 issued in Washington, D.C., U.S.A.

November 7, 2007

Steven D. Hofener
Chair



James W. Hinkle
Executive Director

Certificate of Completion

presented to

Jonathan Fox

for completing the

**Traffic Engineering Analysis Process & Report
Module 1**

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

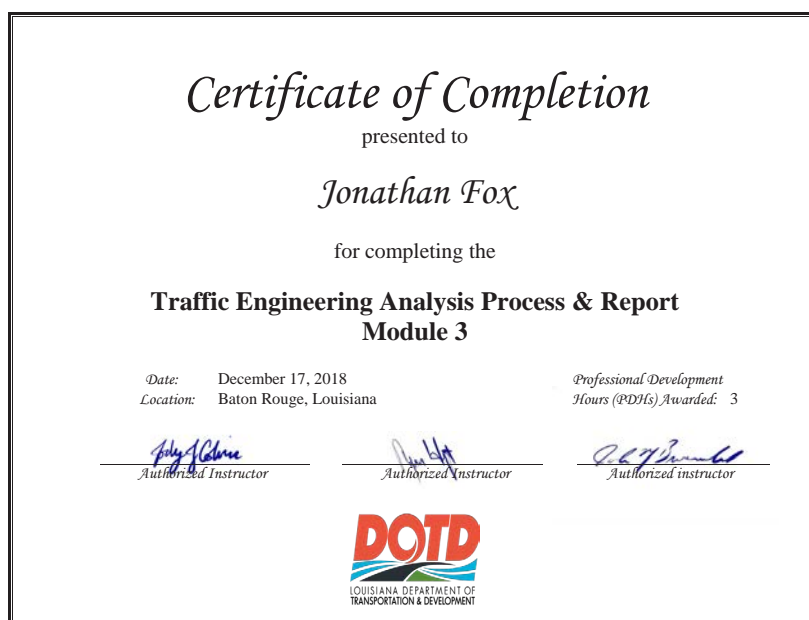
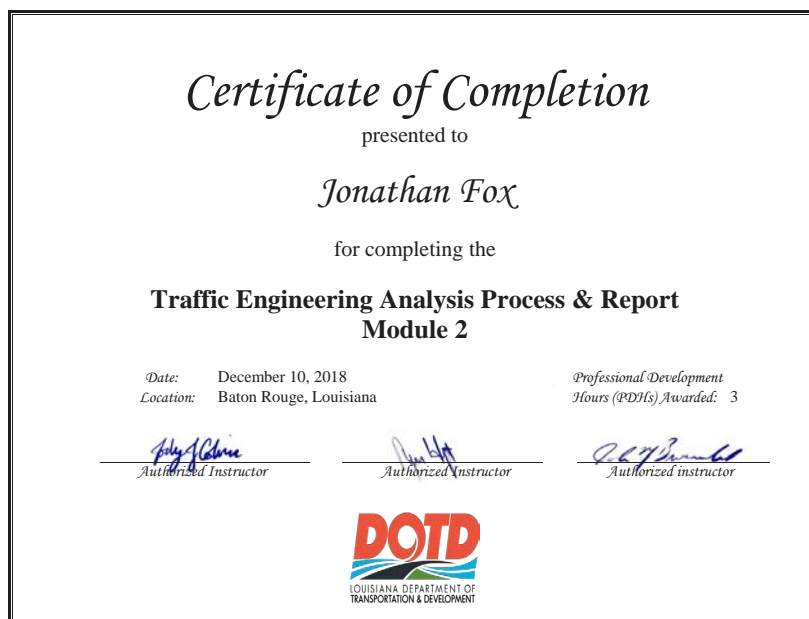
Professional Development
Hours (PDHs) Awarded: 2.5

July J. Calver
Authorized Instructor

Jim Holt
Authorized Instructor

Robert J. Burch
Authorized instructor





Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 4

Poly Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

P. G. Brumfield
Authorized instructor



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

Poly Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

P. G. Brumfield
Authorized instructor



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 4

Poly Colvane
Authorized Instructor

Jim Holt
Authorized Instructor

P. G. Brumfield
Authorized instructor



TRAFFIC DOC, L.L.C.
Thomas L. Ervin
269 Evangeline Drive
Mandeville, LA 70471
985.373.0534 Mobile

April 18, 2024

To Whom It May Concern,

This is to certify that the below listed employees of Intelligent Transportation Systems, LLC have successfully completed traffic control training courses presented by the American Traffic Safety Services Association (ATSSA) and in accordance with the requirements of the Louisiana Department of Transportation and Development (DOTD).

LA Specific Traffic Control Supervisor Refresher (TCSREF) – Prairieville, LA – 04-17-24 – Diane Hammonds & Kimberly McDaniel

This letter will serve as temporary proof of training until the above listed employees receive their official course completion certificates from the American Traffic Safety Services Association (ATSSA). This letter is void in 60 days.

Should there be any questions concerning this matter, please contact the undersigned at the above captioned address.

Yours in highway safety,

Thomas L. Ervin, ATSSA Master Instructor

LOUISIANA STATE CIVIL SERVICE

acknowledges that

Christopher John Dodt

has successfully completed the training course:

CPTP SCS Cybersecurity WBT

on

January 12, 2023

This document is intended to be used solely for the purpose of documenting the individual's completion of SCS's web-based training: CPTP SCS Cybersecurity WBT



STATECIVILSERVICE



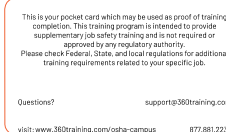
Hanwha Vision
Wisenet eLearning Institute

This is to certify that

christopher dodt
ITS LLC

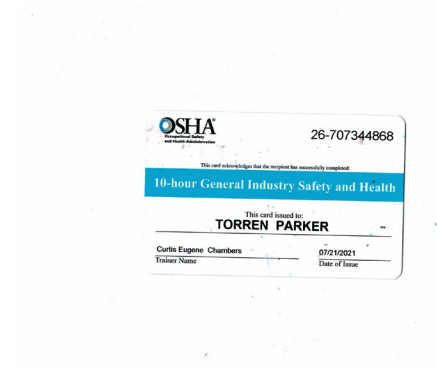
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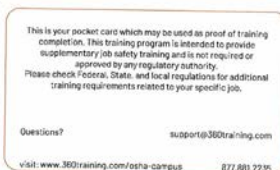
May 3, 2023.













Transportation Professional Certification Board, Inc.

certifies that

Reece J. Rodrigue

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 1013 issued in Washington, DC, USA

3/20/23

Joseph G. Boudreau
Chair



Kelly F. Pinnisi
Executive Director

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org



Ms. Sheelagh B. Ferlito, P.E., PTOE
Vectura Consulting Services, LLC

Thank you for renewing your certification as a Professional Traffic Operations Engineer® (PTOE). The Transportation Professional Certification Board (TPCB) congratulates you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 9/9/2024.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements described in the enclosed attachment.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within three-months of your expiration date 9/9/2024. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. <http://www.tpcb.org/PTOE/feeschedule.asp>

TPCB seeks to maintain the highest level of quality for its certification programs. Since its inception, the TPCB has required its certificants to maintain records with regard to fulfillment of continuing education requirements. Please be advised that as of January 1, 2018, TPCB is phasing in a policy in which 20% of certificant renewals will be randomly selected for audit and the certificant will be required to provide documentation (certificates of completion, course syllabus, meeting agenda/registration, etc.) to demonstrate fulfillment of continuing education requirements. The professional record-keeping system available from ITE, provides a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation.

The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB web site was redesigned and a new certification – the Road Safety Professional – was launched. Going forward the TPCB is committed to expanding the awareness of its certification programs, encouraging jurisdictions to give preference to certificants and growing the number of certified professionals.

The TPCB distributes a quarterly newsletter and highlights the value of its certification programs through the [tpcb.org](http://www.tpcb.org) website. If you would like to contribute to the newsletter or website, please send any items of interest to: certification@tpcb.org.

Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 500 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org



Mr. Laurence L. Lambert, II, P.E., PTOE, PTP
Vectura Consulting Services, LLC
PO Box 14269
Baton Rouge, LA 70898-4269 USA

Thank you for renewing your certification as a Professional Traffic Operations Engineer® (PTOE). The Transportation Professional Certification Board (TPCB) congratulates you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 2/3/2025.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements described in the enclosed attachment.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within **three-months** of your expiration date 2/3/2025. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. <http://www.tpcb.org/PTOE/feeschedule.asp>

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Chair, Transportation Professional Certification Board Inc.

Transportation Professional Certification

1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • www.tpcb.org

Mr. Reece J. Rodrigue, P.E., PTOE
Vectura Consulting Services, LLC

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Your certification is renewed through 7/17/2025.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements described in the enclosed attachment.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within three-months of your expiration date 7/17/2025. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. <http://www.tpcb.org/PTOE/feeschedule.asp>

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Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: June 4, 2018

Location: Baton Rouge, Louisiana

Professional Development

Hours (PDHs) Awarded: 4

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: September 10, 2018

Location: Baton Rouge, Louisiana

Professional Development

Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: June 11, 2018

Location: Baton Rouge, Louisiana

Professional Development

Hours (PDHs) Awarded: 4

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: July 16, 2018

Location: Baton Rouge, Louisiana

Professional Development

Hours (PDHs) Awarded: 2

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 3

Poly J. Calvane
Authorized Instructor

Don Holt
Authorized Instructor

R. G. P. P. P.
Authorized instructor



Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 2

Poly J. Calvane
Authorized Instructor

Don Holt
Authorized Instructor

R. G. P. P. P.
Authorized instructor



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

Poly J. Calvane
Authorized Instructor

Don Holt
Authorized Instructor

R. G. P. P. P.
Authorized instructor



Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

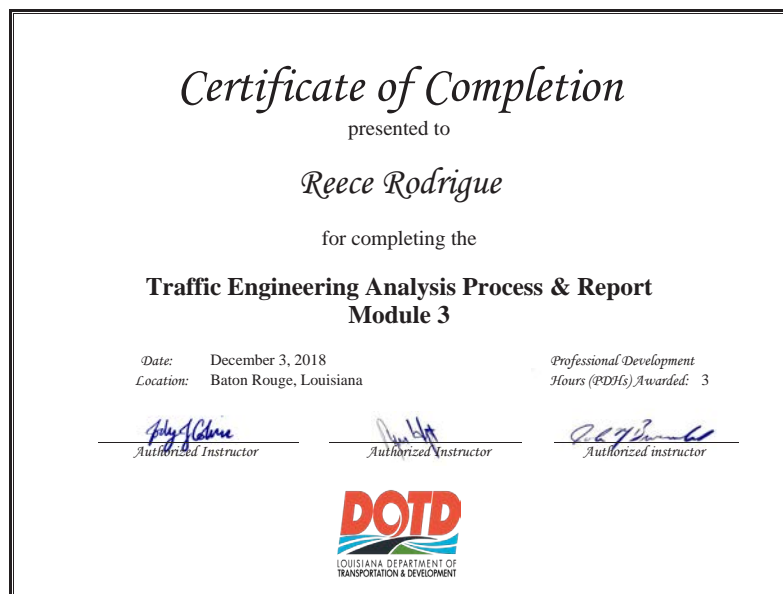
Professional Development
Hours (PDHs) Awarded: 3.5

Poly J. Calvane
Authorized Instructor

Don Holt
Authorized Instructor

R. G. P. P. P.
Authorized instructor





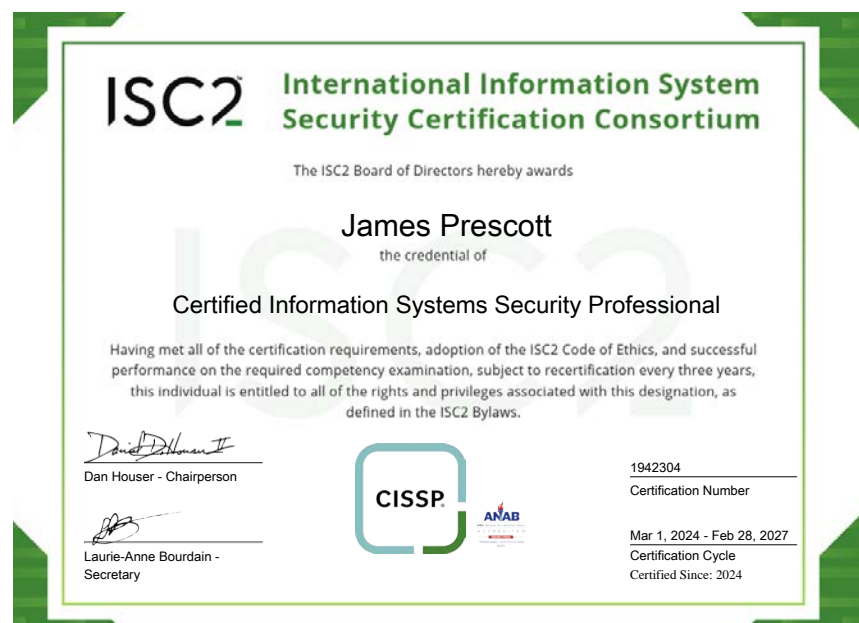
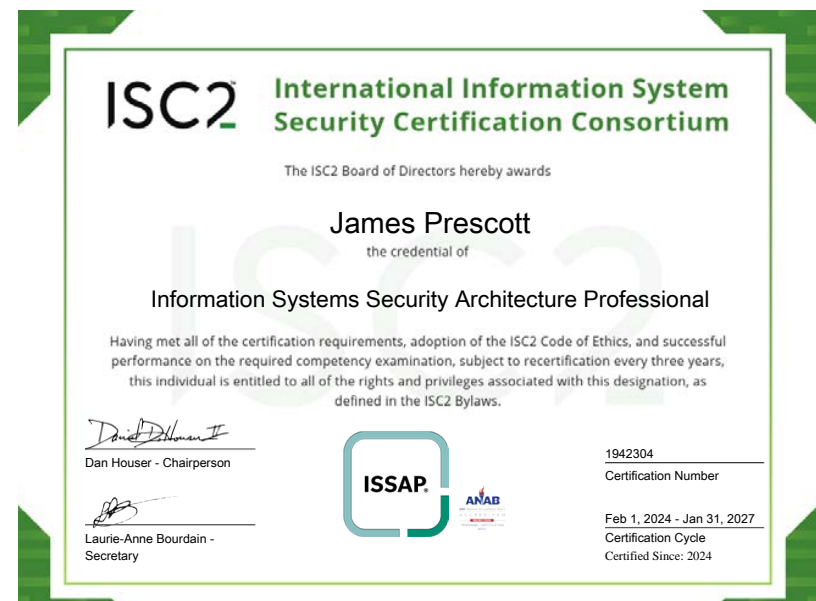


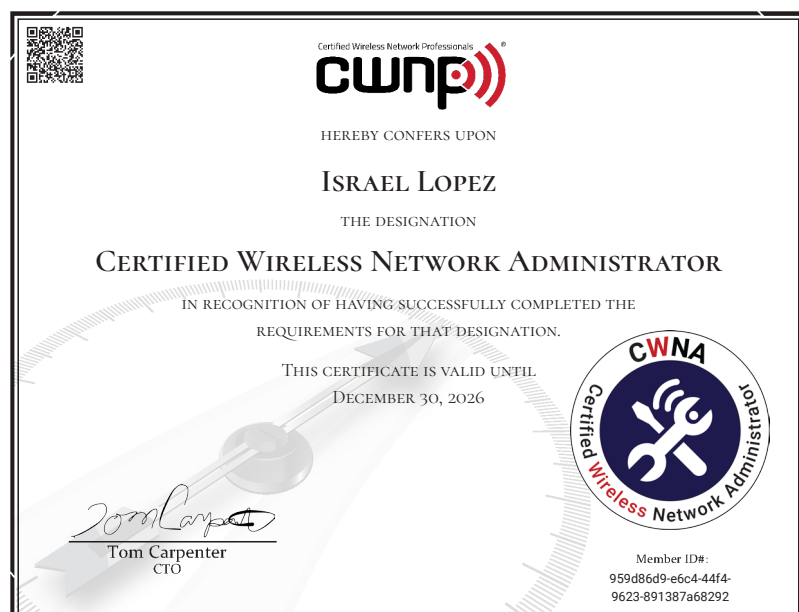
American Traffic Safety Services Association
 15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
 Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
 www.atssa.com



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 www.atssa.com









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

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

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Intelligent Transportation Systems LLC	20405 Highland Road Baton Rouge, LA 70817	Kimberly D. McDaniel, PE, PTOE, PTP Kimberly@itsanswers.com	225-751-9300
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A, Baton Rouge, LA 70809-9639	Sheelagh Brin Ferlito bferlito@vecturacs.com	225-223-6685
Skyline Technology Solutions, LLC	6956 Aviation Blvd., Glen Burnie, MD 21061	Jason Ross, Vice President, jross@skylinenet.net	410-590-2002
ASE Services of California, Inc. (Pending Louisiana Registration)	2375 East Imperial Hwy. #1065 Brea, CA 92821	Michael Krueger, ESEP, PMP, OCSMP michael.krueger@ase-consult.com	714-323-2470

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.



Design with Community in Mind