LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

WAGGONER
FORMERLY SIGMA CONSULTING GROUP

IDIQ Contract For Engineering and Technical Support Services For Critical Projects - Statewide

LADOTD Contract Numbers: 4400029195, 4400029196, and 4400029197

Sections 1-11

I-10: Highland Road to LA 73 Design Build
East Baton Rouge & Ascension Parishes
H.009250

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)
Lead Design Firm

The James Construction Group (Primoris)/Sigma (Waggoner) team was the only bidder after the other two teams declined to submit a bid.

Past Performance Disciplines performed by Waggoner:
Road, Bridge, Traffic, Environmental, Other (Alternative Delivery), Other (SUE)

DOTD FORM: 24-102

Contract Nos. 4400029195, 4400029196, and 4400029197

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ Contract For Engineering and Technical Support Services For Critical Projects Statewide
2. Contract Number(s) as shown in advertisement	4400029195 4400029196 4400029197
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime Consultant Name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	**Waggoner Engineering, Inc.** (formerly Sigma Consulting Group, Inc.)
5. Prime Consultant License Number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	**EF.0002553** **VF.0000457**
6. Prime Consultant Mailing Address	10305 Airline Highway Baton Rouge, LA 70816
7. Prime Consultant Physical Address (existing or to be established, if location is used as an evaluation criteria)	10305 Airline Highway Baton Rouge, LA 70816
8. Name, Title, Phone Number, and Email Address of Prime Consultant's Contract Point of Contact	**Robert J. Lear, Jr., PE, LSI** Vice President robert.lear@waggonereng.com 225.298.0800
9. Name, Title, Phone Number, and Email Address of the Official with Signing Authority for this Proposal	**Miles Williams, PE** Senior Vice President/Transportation Market Lead miles.williams@waggonereng.com 225.298.0800

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 Signature above shall be the same person listed in Section 9 Date: June 20, 2024

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s)	Firm Percent
Vectura Consulting Services, LLC	3%
Adaptive Management and Engineering, LLC	1%
Total DBE Participation	4%

*** Our team exceeds the DOTD's DBE goal of 2%**

SIGMA CONSULTING GROUP, INC.

WAGGONER

SIGMA IS NOW WAGGONER... GREATER CAPACITY TO TRANSFORM COMMUNITIES

Sections 12-15

I-10: E. Jct. I-49 to Atchafalaya Floodway Bridge
Lafayette & St. Martin Parishes
H.003003, H.010601, H.003014

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)
Lead Design Firm

See Project Featured in Section 17

12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

Past Performance Evaluation Discipline(s)	% of Overall Contract	Waggoner (formerly Sigma)	DRMP	Horrocks	NTBA	Ardaman	AME (DBE)	Vectura (DBE)	Each Discipline must total to 100%
Road	18%	80%	10%	10%	-	-	-	-	100%
Bridge	15%	70%	20%	10%	-	-	-	-	100%
Traffic	10%	20%	30%	20%	-	-	-	30%	100%
CE&I/OV	10%*	70%	25%	5%	-	-	-	-	100%
Geotech	5%	-	-	-	-	80%	20%	-	100%
Survey	5%	25%	5%	-	70%	-	-	-	100%
Environmental	3%	20%	50%	25%	-	5%	-	-	100%
Right-of-Way	1%	20%	-	-	80%	-	-	-	100%
ITS	1%	-	50%	50%	-	-	-	-	100%
Other (Alt. Delivery)	15%	30%	30%	40%	-	-	-	-	100%
Other (Project Management)	15%	30%	30%	40%	-	-	-	-	100%
Other (Roadway Lighting)	1%	-	100%	-	-	-	-	-	100%
Other (SUE)	1%	75%	-	-	25%	-	-	-	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%**	**46%**	**22%**	**19%**	**5%**	**4%**	**1%**	**3%**	100%

* The Waggoner team understands that CE&I/OV services are different than Construction Support services. We envision Owner Verification services being applicable to this contract for tasks such as Alternative Delivery ATC reviews, Peer Reviews, QA/QC reviews, or technical independent engineering reviews for construction projects. We do not envision full CE&I services such as full time inspectors, construction contract administration, etc. as these were not listed in the Attachment A scope of services.

13. FIRM SIZE:

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
WAGGONER FORMERLY SIGMA CONSULTING GROUP	Principal	1	1
	Professional	1	2
	Supervisor - Engineer	7	8
	Engineer	6	6
	Engineer Intern	3	4
	Engineer - Other	2	2
	Environmental Manager	1	1
	CADD Technician	3	3
	CADD - Operator	5	5
	Supervisor - Other	2	3
	Senior Technician	1	1
	Technician	1	1
	GIS Analyst	0	6
	Instrument Man	1	1
	Surveyor	1	2
	Party Chief	3	3
	Clerical	1	4
DRMP	Biologist/Wetlands	2	5
	CADD - Operator	1	8
	Engineer	1	1
	Engineer - Other	19	135
	Environmental Professional	0	1
	Environmental Manager	2	3
	Inspector - Bridge	2	2
	Planner	1	2
	Professional	4	135
	Supervisor - Engineer	1	1
	Surveyor	4	18

Horrocks.	Engineer	2	3
	Engineer - Other	14	252
	Planner	1	10
	Landscape Architect	1	2

NTBA SURVEY. DESIGN. BUILD. SUCCEED.	Principal	1	1
	Engineer	1	1
	Surveyor	3	6
	Supervisor - Other	1	3
	Senior Technician	0	1
	CADD Technician	1	6
	Technician	1	1
	CADD Drafter	2	6
	Party Chief	5	18
	Instrument Man	4	7
	Rodman	4	10

Ardaman & Associates, Inc.	Administrative	1	1
	Clerical	1	2
	Engineer	2	4
	Engineer Intern	3	6
	Principal	2	2
	Senior Technician	7	9
	Supervisor - Engineer	3	3
	Supervisor - Other	2	2
	Technician	10	14

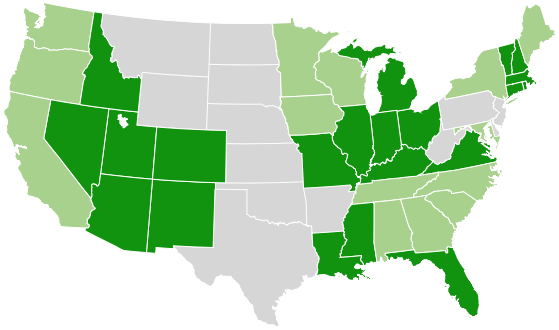
ADAPTIVE MANAGEMENT AND ENGINEERING	Principal	1	1
	Engineer	2	2
	Engineer Intern	0	0
	Senior Technician	2	2
	Driller	1	1
	CADD Drafter	1	1
	Technician	3	3

VECTURA CONSULTING SERVICES, LLC	Supervisor - Engineer	2	2
	Engineer	3	3
	Engineer Intern	2	2
	Inspector	1	1
	Senior Technician	1	1
	Supervisor - Other	1	1
	Clerical	1	1

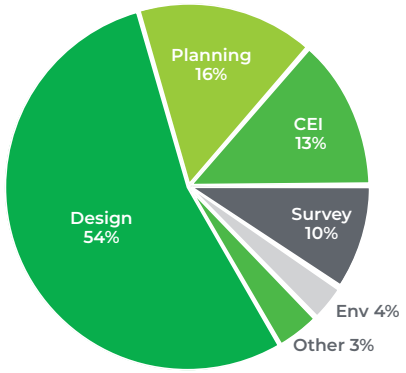
Waggoner + DRMP + Horrocks = Proven Success

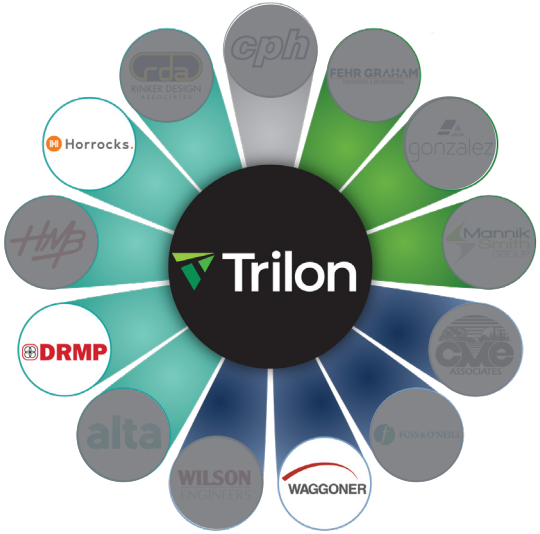
Transportation End Market Segmentation

Geographic Footprint



Services Breakdown





13 PARTNER FIRMS

>4,400 STAFF

Waggoner, DRMP, and Horrocks are part of a corporate collective of specialized engineering firms called the Trilon Group. This business model allows our team to capitalize on our national reach, resources, and subject matter experts throughout the Trilon Group's portfolio of companies. Our partner firms are comprised of experienced industry professionals and have delivered smart and sustainable infrastructure solutions for decades.

14. ORGANIZATIONAL CHART:

KEY	
Waggoner (formerly Sigma)	(#) Meets MPR Criteria
DMRP	✪ Meets Work Zone Training Requirements
Horrocks	
NTB Associates	▶ Meets Traffic Engineering Process & Report Training Requirements
Ardaman & Associates	
Adaptive Management	
Vectura	**DISCIPLINE LEAD** (CAPS & BOLD)

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PRINCIPAL-IN-CHARGE
Miles Williams, PE (1,2,3)

QA/QC
Miles Williams, PE (1,2,3)
Jason Crain, PE

PROJECT MANAGER
Robert Lear, PE, LSI (10) ✪

ENVIRONMENTAL
ERIC JEFFERSON, PE, AICP, PTP (4)
JOCELYN PRITCHETT, PE (4)
Joyce Barkley
Kim Bereis, AICP
George McLatchey, PWS, CEP
Rachel Schmidt, PWS
Alexis Verson, AICP
Ryan Pitts, PLA
Grant Writing
Josh Norman
Jennifer Gates
Additional Support Staff

TRAFFIC
SHEELAGH FERLITO, PE, PTOE (5) ✪ ▶
LAURENCE LAMBERT, PE, PTOE, PTP (5) ✪ ▶
Andrew Eagle, PE, PTOE
Grady Vaughan, PE, PTOE, PTP
Lisa Moon, PE
Carlos Martinez, PE
Nick Devito, PE
Jim Highland, PE
Bharathi Chigurupati, PE, RSP1
Aaron Littman, PE, PTOE
Reece Rodrigue, PE, PTOE, RSP1 ✪ ▶
Kristen Farrington, PE, PTOE, RSP1 ✪ ▶
Additional Support Staff

GEOTECHNICAL
MEGAN BOURGEOIS, PE (9) ✪
ROBERT JEWELL, PE (9) ✪
Ross McGillivray, PE
Robert Roussett, PE
Jarmon King, EI ✪
Chandler Willis
Casey Floyd ✪
Venu Tammineni, PE ✪
Gregory Mattson, II, PE ✪
Additional Support Staff

ROADWAY & HYDRAULICS
ALEX FARR, PE ✪ ▶
BRYAN HARMON, PE
Kelsie Bankston, PE
Charlotte Gremillion, PE
Thomas Grass, PE
Maggie Wei, PE, CFM
Anthony Smith
Kim Sadowski, PE
Mike Jaroch, PE
Don Brown, PE
Steven D'uva, PE
Stephen Donegan, PE
Bruno Arriola, PE
Additional Support Staff

BRIDGE DESIGN
ANDREW WINDMANN, PE (11)
JOSHUA GONYA, PE (11)
Joshua Olivier, PE
Leo Rodriguez, PE
Alex Urchuk, PE
Mike McNeese
Derek Stonebraker, PE
Richard Hansen, PE
Spencer Stephenson, PE
David Simmons, PE
Midhat Hassan, PE
Dana Ames, PE
Ryan Page, PE
Additional Support Staff

PROJECT DELIVERY
Project Management
ROBERT LEAR, PE, LSI (10) ✪
Designated TO Manager
Plan Delivery
All Discipline Leads
Quality Control & Peer Reviews
Paul Foley, PE
Allen Schrumpf, PE
Doug Graham, PE
Construction Support
All Discipline Leads

ALTERNATIVE DELIVERY
TJ LALLATHIN, PE
Matthew Horrocks, PE
Shane Marshall, PE
Kris Peterson, PE
Joe Serre, PE
Joe Sonnen, PE
Additional Support Staff

OTHER SERVICES
Tolling
LEO RODRIGUEZ, PE
Nick Devito, PE
Steve Wallace, PE
ITS
ASHLEY DOWELL, PE
LISA MOON, PE
Justin Hayes, EI
John Florez, PE
Lighting
Michael Travis, PE
Justin Hayes, EI
Ashley Dowell, PE
Electrical Vehicle Charging
Justin Hayes, EI
Nigel Atkinson

SUE & UTILITY RELOCATION
JOSHUA RENARD, PE (8) ✪
Randy Tompkins, PSM, PLS, PS
Brent Bass, PE, PSM
Tom Yocom, PSM
Ryan Grab, CST II
Peter Bosack, PE, PMP

SURVEYING
PAUL ROSSINI, PLS (6,7)
PATRICK STAIANO, PLS (6,7) ✪
JACE RICARD, PLS ✪
Bryan Bunch, PLS
John King
Mike King, PLS
Grant Gilleon,PLS
Additional Support Staff

15. MINIMUM PERSONNEL REQUIREMENTS:

MPR # Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License/ certification expiration date
1	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
2	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
3	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
4	Eric Jefferson, PE, AICP, PTP Joce Pritchett, PE	Waggoner DRMP	PE#45590 - Civil PE#83899 - Civil	LA FL	9/30/2025 2/28/2025
5	Sheelagh Brin Ferlito, PE, PTOE Laurence Lambert, PE, PTOE, PTP	Vectura Vectura	PE#25383 - Civil PE#29901 - Civil	LA LA	9/30/2025 3/31/2026
6	Paul Rossini, PLS Patrick Staiano, PLS	NTBA NTBA	PLS#4731 - Surveying PLS#5130 - Surveying	LA LA	9/30/2025 9/30/2025
7	Paul Rossini, PLS Patrick Staiano, PLS	NTBA NTBA	PLS#4731 - Surveying PLS#5130 - Surveying	LA LA	9/30/2025 9/30/2025
8	Joshua Renard, PE	Waggoner	PE#36015 - Civil	LA	3/31/2025
9	Megan Bourgeois, PE Robert Jewell, PE	Ardaman Ardaman	PE#36725 - Civil PE#38579 - Civil	LA LA	3/31/2026 9/30/2024
10	Robert Lear, Jr., PE, LSI	Waggoner	PE#29394 - Civil	LA	3/31/2025
11	Andrew Windmann, PE Josh Gonya, PE	Waggoner Waggoner	PE#39042 - Civil PE#40859 - Civil	LA LA	9/30/2024 9/30/2024

* The Waggoner team has multiple personnel assigned to this contract who have the qualifications necessary to meet each minimum personnel requirements. Individuals listed are the key personnel for each MPR. Additional names were not added to keep the response clear and concise.

Section 16

I-10: Highland Road to LA 73 Design Build
East Baton Rouge & Ascension Parishes
H.009250

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)
Lead Design Firm

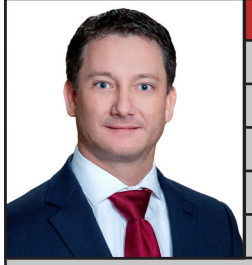
The James Construction Group (Primoris)/Sigma (Waggoner) team was the only bidder after the other two teams declined to submit a bid.

Past Performance Disciplines performed by Waggoner:
Road, Bridge, Traffic, Environmental, Other (Alternative Delivery), Other (SUE)

STAFF EXPERIENCE:

Group 1 - Project Delivery Team

16. STAFF EXPERIENCE:



Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Name	**Robert J. Lear, Jr., PE, LSI**	Years of Relevant Experience with this Employer	25
Title	Vice President | Senior Project Manager	Years of Relevant Experience with Other(s) Employers	3
Degree(s)/Years/Specialization	BS/1996/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#29394/LA/03-21-2025		
Year Registered	2001	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Contract/Project Manager | **Meets MPR 10**		

Robert will oversee planning, budgeting, and executing the contract(s), ensuring compliance with state regulations and timely completion. He will ensure all deadlines are met efficiently. He will support LADOTD by conducting project meetings, participating in value engineering and cost risk assessments, developing Project Management Plans (PMP) and Initial Financial Plans (IFP), and drafting miscellaneous project agreements. Robert will also work closely with the designated task order manager to ensure effective project delivery. With over 20 years of LADOTD project design and management experience, Robert will ensure projects meet LADOTD's goals and are completed on time.

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).
03/03 - Ongoing SECTION 17 PROJECT	**LA1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112 | H.008145 | H.004526)** **Project Manager, Road Design Engineer, Permitting Manager.** Robert has served multiple roles for this multi-phase mega project to add 17 miles of tolled bridge on new alignment through coastal LA. During Phase 1 (Fourchon-Leeville), he designed roadway, geometrics, permanent signing, permanent striping, roadway lighting, construction canal dredging plans, marsh creation mitigation plans, and provided construction support. He performed CE&I/OV services for the toll gantry, roadway lighting, electrical systems, wayfinding signage, permanent signing, and new toll building. He also prepared and secured all construction permits (USACE, DNR, USCG, DEQ) for Phases 1 and 2. He prepared demolition plans for the old Bayou Lafourche bridge substructure, SUE and utility coordination for all pipelines in the active oil and gas field. **The multi-phase geometric design for both current build with future build accommodations included complex urban freeway interchange design as required in MPR 10.**
10/12 - Ongoing SECTION 17 PROJECT	**Hooper Rd Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)** **Project Manager.** Robert was the project manager during the Environmental Assessment Phase of this 2.2 mile urban roadway capacity project. Hooper Road is being upgraded to a 4-lane blvd with complete streets accommodations. He also managed the topo survey and prepared right-of-way maps.
03/13-07/22 SECTION 17 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** **Project Manager and Lead Road Design Engineer Of Record.** Robert served as the project manager and lead road design engineer of record for capacity and pavement preservation improvements for I-10 in Lafayette. These three projects were designed concurrently under a road design retainer and constructed under three separate construction contracts. He designed roadway geometrics, drainage, graphical grades, ramp terminals, roundabout intersections, and construction sequencing. He also coordinated the multi-discipline plan set packaging, quantity computations, specs, special provisions, pay items, design reports, design waivers, design exceptions, and utility conflicts. He played an active role in construction support as well. **H.003003 and H.003014 included complex urban highway design as required in MPR 10.**

Robert Lear resume continued

01/13 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** **Roadway Design Engineer.** Robert is a roadway design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. Robert is responsible for the horizontal and vertical geometric design and road plan production of a four-tiered interchange, eight lane mainline, two-lane one way frontage roads, and u-turns. **This project also included complex urban highway design required in MPR 10.**
05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** **Roadway Design Engineer.** Robert is a roadway design engineer for the widening of I-10, interchange improvements, and surface street improvements through Baton Rouge. His responsibilities include urban roadway, freeway, and interchange geometrics, profile design, typical sections, design reports, establishing required right of way, and plan preparation using Microstation and Inroads. He is part of the roadway task force which collaborates with the design team, DOTD, and the CMAR contractor. **This project also included complex urban highway design required in MPR 10.**
04/02 – 04/12	**Jones Creek Rd Improvements Tiger Bend Road – Coursey Blvd., East Baton Rouge Parish, LA (H.007137)** **Project Manager and Lead Road Design Engineer.** Robert was the project manager and lead road design engineer for the widening of a two-lane road to a five-lane urban section. He designed roadway geometrics, intersections, sidewalks, residential and commercial drives, pavement markings, and cross sections. He also managed the topographic survey and worked under PLS supervision for the preparation of right-of-way maps. **This project also included complex urban highway design required in MPR 10.**
10/20 - Ongoing	**I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), East Baton Rouge Parish, LA (H.013897)** **Lead Road Design Engineer.** Robert is serving as the lead design review engineer for the following design units: definitive design, clearing and grubbing, roadway, drainage, maintenance of traffic, pavement marking and signing, SWPPP, and TMP Level 4. His responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Project Manager and Design Engineer.** Robert was the project manager and design engineer of record for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problem near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange. Robert is responsible for coordinating the project with the District 03 administrator, DTOE, area engineer, and utility coordinator, along with the design of the drainage systems, maintenance of traffic plans, and construction plan development.
08/18 – 10/22	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Lead Rooad Design Engineer.** The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new four-lane rural arterial roadway. Robert is the roadway design engineer for this LADOTD Design-Build Project. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, drainage design including cross drains, storm drains, side drains, roadside ditches, existing and design drainage maps, clearing and grubbing plans, and construction support. Robert also was responsible for QA/QC reviews and/or independent reviews of the Stormwater Pollution Prevention Plan, Interchange Modification Report re-evaluation, traffic control plans, signing and striping plans, and transportation management plan. **This project also included complex urban highway design required in MPR 10.**
01/14 – 07/16	**LA342: Roundabout at LA 724, Lafayette Parish, LA (H.002163)** **Project Manager and Lead Road Design Engineer.** Robert served as the project manager and road design engineer for a four-legged single lane roundabout in Lafayette Parish. He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey and SUE efforts. Utility locates included QL-D and QL-C locates. Robert coordinated with District 03 for utility relocation requirements and needs.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Miles Williams, PE**			Years of Relevant Experience with this Employer	33
Title	President			Years of Relevant Experience with Other(s) Employers	8
Degree(s)/Years/Specialization			BS/1983/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#23094/LA/03-31-26		
Year Registered	1988	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Principal-in-Charge | Project QA/QC | **Meets MPR 1,2,3**		

For these contracts, Miles will lead the overall project strategy and direction, ensuring all aspects meet quality standards and regulatory requirements through rigorous quality assurance and quality control processes. Miles has served as a design engineer and project manager on a wide range of traffic engineering and transportation-related projects. His tasks have included the design of individual signal installations and interconnected signal systems. Miles has supervised the multidisciplinary design of diverse control signal systems for a wide variety of both governmental and private clients. In addition, Miles has demonstrated extensive experience in the development of maintenance of traffic, construction phasing, and construction signing plans and specifications.

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).
03/03 - Ongoing SECTION 17 PROJECT	**LA1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112 | H.008145 | H.004526)** **Project Manager, Lead Road Design Engineer, Principal-In-Charge.** Miles was the lead road design engineer for Phase 1 of this multi-segment mega project to add 17 miles of tolled bridge on new alignment through coastal LA. During Phase 1 (Fourchon-Leeville), he designed both interim and ultimate interchange/intersection geometrics, roadway plans, permanent signing, permanent striping, and provided construction support. He is the principal-in-charge for environmental and permitting services, and construction support services for Phase 2 (Leeville-Golden Meadow). **The multi-phase geometric design for both current build with future build accommodations included complex urban freeway interchange design as required in MPR 3.**
10/12 - Ongoing SECTION 17 PROJECT	**Hooper Rd Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)** **Principal-in-Charge.** Miles is the principal-in-charge for the NEPA EA and urban road design of this 2.2 mile capacity project. Hooper Rd is being upgraded to a 4-lane blvd with complete streets accommodations. **This project included complex urban highway design as required in MPR 3.**
03/13 – 07/22 SECTION 17 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)** Miles served as the principal-in-charge and road design engineer for capacity and pavement preservation improvements for I-10 in Lafayette. These three projects were designed concurrently under a road design retainer and constructed under three separate construction contracts. He provided overall contract management, designed sequence of construction plans, and mentored the roadway design calculation and plan preparation process. He played a supportive role in construction support as well. **This project included complex urban highway design as required in MPR 3.**
01/13 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** Miles is the road design engineer of record for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the horizontal and vertical geometric design, subsurface and open ditch drainage design, and road plan production of a four-tiered interchange, eight lane mainline, two-lane one way frontage roads and u-turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation. **This project included complex urban highway design as required in MPR 3.**

Miles Williams resume continued

05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** Miles is the road design lead professional for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include road and drainage design, complex interchange geometric design, maintenance of traffic/sequencing plans, coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination, proposed right of way and control-of-access limit determination, utility coordination, and public involvement. **This project included complex urban highway design as required in MPR 3.**
04/02 – 04/12	**Jones Creek Road Improvements Tiger Bend Road – Coursey Blvd., East Baton Rouge Parish, LA (H.007137)** Miles was the principal-in-charge for the Jones Creek Road Improvements project for LADOTD. The project involves widening an existing two-lane roadway to a five-lane curb and gutter roadway with subsurface drainage. He was responsible for contracts, geometrics, road design, sequence of construction, signing and coordination of traffic signalization. He was also the project manager during the topographic and boundary survey and right-of-way map preparation phases. **This project included complex urban highway design as required in MPR 3.**
12/14 – 04/19	**S. Acadian Thruway (Perkins Rd - LA 73), East Baton Rouge Parish, LA (H.011261)** Miles was the principal-in-charge for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Miles reviewed proposed safety and sidewalk improvements as they were implemented in the project.
04/18 - Ongoing	**Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines, and Jefferson Parish, LA (H.004791)** Waggoner (formerly Sigma) is a design subconsultant providing drainage design for this alternative delivery project. Miles is serving as project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionaire and LADOTD. He is also assisting in the design of the drainage system for the roadways throughout the project including storm sewer design, drainage plans preparation, and generation of quantities. **This project included complex urban highway design as required in MPR 3.**
10/20 - Ongoing	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** **Road Design and Drainage Design Reviewer.** Miles is serving as a road design and drainage design reviewer, providing support services to DOTD through the Owner Verification Team (OVT) for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I¬12 West and I-10 West exits. Mr. Williams' responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, drainage plans, geometrics and construction sequencing with consideration being given to DOTD Design Guidelines, Hydraulics Manual requirements, Standard Details and Specifications.
08/18 – 02/20	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Project Principal.** Miles has served as the project principal on this design-build team lead by James Construction Group and Huval and Associates. Miles supervised all of Waggoner's (formerly Sigma) efforts on this project which included all urban interstate highway design and plan preparation, drainage design and pavement marking plans. The interchange design includes complex geometrics, sequencing of construction while maintaining traffic on I-20 and coordination with a major railroad and the US Air Force technical team at Barksdale Air Force Base. **This project included complex urban highway design as required in MPR 3.**

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Name	**Jason Crain, PE**	Years of Relevant Experience with this Employer	26
Title	Vice President, Senior Project Manager	Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization		BS/1996/Civil Engineering	
Active Registration Number/State/Expiration Date		PE#30275/LA/9-30-2024	
Year Registered	2002	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities		Project QA/QC	

Jason will serve as the contract QA/QC Manager. He will use his 27+ years of engineering, program management, and project management experience to ensure that all projects follow the established QA/QC protocols. For this project, Jason will develop and implement quality assurance and quality control plans, conduct regular inspections and audits, and ensure that all project activities adhere to specified standards and regulatory requirements to guarantee the highest level of quality in project deliverables.

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 – Ongoing	**MOVEBR Infrastructure Enhancement and Traffic Mitigation Program, East Baton Rouge Parish, LA** **Lead Project Manager.** Waggoner (formerly Sigma) is the lead partner with Stantec as the Program Management firm for the Corridor Improvement and Community Enhancement Projects under the MOVEBR Infrastructure Enhancement and Traffic Mitigation Program in April 2019. This $1.0 billion program is the largest transportation infrastructure program ever implemented by East Baton Rouge (EBR) Parish. Based upon the tax proposition approved by the citizens of the Parish, proceeds will be used on projects to increase capacity and make safety, mobility, and access management improvements to certain roadways/intersections throughout the Parish. There are additional projects that will enhance existing corridors by providing pavement resurfacing, traffic signal synchronization, turn lane improvements, drainage upgrades, lighting, ADA compliance features, and Complete Street elements such as cycling paths, sidewalks, transit accommodations, and Green Infrastructure. Waggoner's staff is working closely with the Stantec staff along with key EBR Dept. of Transportation and Drainage (DTD) personnel in a team effort to coordinate all programmatic functions necessary to deliver over 83 MOVEBR projects by the year 2032. Jason serves as Lead Project Manager for Waggoner, managing Waggoner's role in the MOVEBR Program and responsible for 8 engineering, construction, and administrative staff members. Along with management responsibilities, Jason currently serves as Deputy Program Manager for Project Delivery ensuring all program projects are progressed through design, bidding, and construction on time and within budget. This entails coordination and supervision of multiple project managers, design consultants, outside agencies, client management staff, construction managers, and contractors. Jason's experience and knowledge of the EBR Parish Government departments, personnel, and internal processes was key to establishing programmatic controls as well as assisting the overall Program Management Team in their successful function as representatives of the City/Parish and the DTD. He has been instrumental in development of the Program Design Guidelines, preparation of program-wide technical specifications, standards, contract development, and design consultant services management. Jason also leads two separate program committees; one focused on technical aspects and the other is dedicated to procurement needs of the overall Program.
02/19 - Ongoing	**Update of East Baton Rouge Standard Specifications for Public Works** Jason is leading the effort to provide support to the City-Parish with updating the Standard Specifications for Public Works Construction (Blue Book) and coordinating the issuance of a new Standard Specification Book. Jason was instrumental in updating the Sanitary Sewer technical specifications for use under the 12-year SSO Program and has historical knowledge of previous revisions to the general provisions and other technical specifications included in the City-Parish Standard Specification Book. In addition to technical specification updates, impacts of the new plan of government (re-organization of Public Works) need be addressed and incorporated.

Jason Crain resume continued

09/06 - Ongoing	**Sanitary Sewer Overflow (SSO) Reduction Program, East Baton Rouge Parish, LA** **Quality & Technical Services Manager and Lead Design Manager.** Waggoner is the lead partner with Jacobs (formerly CH2M HILL) as the Program Management firm for the City-Parish of East Baton Rouge. The Program Managers are responsible for developing, planning, administering (design and construction) and delivering a $1.6 billion program consisting of 115 related individual projects to meet the EPA mandated consent decree to reduce SSO's by the year 2019. Jason serves as Lead Project Manager for Waggoner, managing Waggoner's role in the SSO Program and responsible for 15 engineering, construction, and administrative staff members. Along with management responsibilities, Jason currently serves as Deputy Program Manager for Project Delivery ensuring all program projects are progressed through design, bidding, and construction on time and within budget. This entails coordination and supervision of multiple project managers, design consultants, outside agencies, client management staff, construction managers, and contractors. Jason also manages contractor relations, contract change reviews, and construction claims negotiations. In the past, Jason also served as Quality & Technical Services Manager as well as Lead Design Manager for the entire SSO Program. Under these roles Jason develops design and quality related policies and procedures for the Program Team. In addition, Jason provides technical expertise program wide including plan review, specification writing, bid document review and preparation, and new product reviews. Prior to Jason's current role on the Program, he managed the $300 million rehabilitation portion of the Program. This included planning projects, maintaining schedules and budgets, progress reporting to client, coordinating with engineering consultants and contractors, and general consultation to the client.
03/03 – 06/05 SECTION 17 PROJECT	**LA1 Improvements, Golden Meadow – Fourchon, Lafourche Parish, LA** Jason was responsible for all horizontal and vertical geometric checking for this project. He was also responsible for highway graphical grades, intersection design, navigational lighting and pay item quantities.
2017	**I-10 Widening, LA30 - LA22, Ascension Parish, LA (H.009276)** Jason was responsible for the roadway geometrics and typical section for the replacement of the LA 941 bridge structure over the mainline interstate widening of a 5-mile segment of I-10. In addition, Jason provided QA/QC for mainline geometrics, typical sections, and geometrics for the mainline temporary detours at the LA 941 bridge replacement location.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Name	**Paul Foley, PE**		Years of Relevant Experience with this Employer	1
Title	Director of Transportation & Field Services		Years of Relevant Experience with Other(s) Employers	16
Degree(s)/Years/Specialization		BS/2009/Civil and Environmental Engineering		
Active Registration Number/State/Expiration Date		PE#39520/LA/9-30-2025 | PE#26568/MS/12-31-2025		
Year Registered	2015	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Roadway/Drainage Quality Control & Peer Reviews		

Paul will focus on quality control and peer reviews alongside DMRP and Horrocks. He will verify the accuracy of project submittals and reports, perform independent peer reviews of designs and calculations, and conduct engineering reviews for plans and special provisions to ensure compliance with project standards and regulatory requirements. Paul's extensive project management and professional engineering experience includes roadway design, hydrology and hydraulics, water resources, and surface transportation. For this project, he will ensure compliance with engineering standards and regulations, perform quality control checks, and provide feedback to enhance design accuracy and functionality.

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).
04-20 - Ongoing	**State Street Improvements, Jackson, Hinds County, MS** **Transportation Discipline Leader.** Paul served as the transportation discipline leader for the State Street Improvements project. For this project, Waggoner provided professional services for a $18 million rehabilitation of State Street between Fortification and West Capitol Streets in Jackson, MS.
05/21 - Ongoing	**Claiborne County Emergency Drainage Repairs, Claiborne County, MS** **Transportation Discipline Leader.** Paul served as the transportation discipline leader for the Claiborne County Emergency Drainage Repairs project. The project consisted of the repairs of more than 20 erosion areas throughout the county using riprap flumes to carry stormwater off-site and stabilize the banks for future flooding.
03-21 - 03/22	*** Lakeshore (RR079) Roadway Improvements, New Orleans, LA** **Senior Project Manager.** Paul was responsible for the design and complete rehabilitation/reconstruction of approximately 5,500 LF of roadway. He was also responsible for overseeing roadway and utility improvements during design and construction. The improvements included concrete and asphalt pavement replacement, curb/gutter and driveway replacement, storm sewer design, sanitary sewer, water line replacement and house connections. Preliminary work included research of available easements, record drawings, planning reports, and other pertinent information considering the development of the conceptual plans and the final design of the proposed improvements. The proposed layout was evaluated in terms of access for emergency vehicles and access for property owners. Paul performed a preliminary drainage analysis and designed new potable watermain(s), valves, fire hydrants, meters, and house connections. Along with designing new sanitary sewer systems and storm drainage systems as well as prepared preliminary design phase (30%, 60%, and 90%) and final design phase (100%) services which include plans, specifications, and cost estimate.

*** Prior Project Experience**

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Allen Schrumpf, PE**			Years of Relevant Experience with this Employer	31
Title	Quality Assurance Manager			Years of Relevant Experience with Other(s) Employers	16
Degree(s)/Years/Specialization			BS/Engineering/1976		
Active Registration Number/State/Expiration Date			PE#41673/02-28-2025		
Year Registered	1989	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Bridge/Major Projects Quality Control & Peer Reviews		

For this project, Allen will review and evaluate bridge and major project designs, perform quality control checks, ensure adherence to engineering standards and safety regulations, and provide expert feedback to improve design precision and project outcomes, ensuring project success. Allen is responsible for developing all project quality control plans, supervising all quality control reviews, and preparing quality control documentation. He also provides these review services to other consulting firms and public agencies on an independent contract basis. To date, his review efforts number in excess of 800 different transportation projects in the study and final design phases of all project sizes and types.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Quality Control Manager** for the design and construction of 2.63 miles of limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design,permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Quality Control Manager and also Post Design Services Manager** responsible for the $162.3 million widening of six miles of SR 91 from a four-lane to eight-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only.

Allen Schrumpf resume continued

06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Hernando and Citrus Counties, FL** **Quality Control Manager** for the design of approximately nine miles of roadway and the interchanges with US 98 and Cardinal Street. The overall project was a new limited access highway to extend the Suncoast Parkway. Responsibilities included design, project coordination, administrative duties and Quality Control Manager. This section included 10 bridges, two diamond interchanges and toll facilities. The complete design included plans for roadway, drainage, bridge, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. Several significant provisions for the Suncoast Multi-Use Trail and adjacent State Forest Lands were added. This work also involved managing a re-evaluation for the entire 27 mile corridor and environmental permitting for the entire project.
07/18 - 12/21	**5th Street over Yacht Club Cut Bridge Replacement, City of New Smyrna Beach, Volusia County, FL** **Quality Control Manager** responsible for the PD&E study and final design for this bridge replacement project. The facility is a two-lane roadway providing access from the mainland to an island community and marina. The bridge typical section consists of two 9-foot lanes, with 2.5-foot shoulders and a five-foot sidewalk with traffic railings. The bridge superstructure is comprised of a three-span Florida Slab Beam (FSB) superstructure using stainless steel reinforcing and consisting of 54-foot spans. The roadway and bridge will be reconstructed on the existing alignment. A temporary ACROW bridge will provide access during the bridge replacement. Scour and tidal influences will play a critical role in design of the structure. The project included two public meetings; one in person and one virtual. A Type I Categorical Exclusion was approved for the project. Mitigation planning included establishing an off-site preservation area and relocating oysters within the project footprint. US Coast Guard and National Marine Fisheries Services coordination and environmental permitting with the St. Johns River Water Management District (SJRWMD) and USACE was completed. This project includes PD&E study, public meeting coordination, Coast Guard coordination, mitigation and environmental permitting, geotechnical investigations, survey, right-of-way mapping, utility coordination, roadway, drainage, coastal hydraulics, structures, lighting and signing and pavement marking. This is a LAP project between the City of New Smyrna Beach and District Five. This project is currently in construction.
11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **Quality Control Manager** for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County, and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics, and geotechnical services.
05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), The Lane Construction Corporation for Central Florida Expressway Authority, Osceola County, FL** **Quality Control Manager** for this $94.4 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Doug Graham, PE**	Years of Relevant Experience with this Employer	28
Title	Senior Director, Transportation	Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization	BS/1994/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#357733-2202/UT/3-31-2025 | PE#57298/CA/12-31-2025		
Year Registered	1998	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Alternative Delivery Quality Control & Peer Reviews		

For this project, Doug will evaluate and review alternative delivery methods ensuring they comply with quality standards and regulations, conducting peer reviews, and providing constructive feedback to enhance project delivery efficiency and effectiveness. Doug is the Technical Services Business Line Leader at Horrocks, boasting 29 years of experience, with 28 years at the firm. He oversees GIS, survey and mapping, and utility mapping groups. Doug's expertise lies in transportation planning, environmental documentation, and preconstruction design, particularly for public and DOT projects. His primary role involves managing various discipline leads to support the delivery of diverse project types. He has a strong background in transportation improvement projects and is well-versed in federal, state, and local requirements for successful project development. Doug specializes in geometric design, including system-to-system interchanges, interchange design, urban and rural collectors, trail systems, roundabouts, and intersection improvements.

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).
09/18 - Ongoing	**UDOT West Davis Highway Design-Build Program Management and Design Support, Davis County, UT** **Principal-in-Charge.** Doug is serving as PIC for this new 16-mile, four-lane divided highway project. Horrocks is providing Program Management and Design support services to UDOT Region One as a subconsultant to HDR (Prime Consultant), the project is being completed via Design-Build delivery. Freeway-style interchanges with on- and off-ramps will be built at Legacy/I-15 (Farmington), 950 North (Farmington), 200 North (Kaysville), 2700 West (Layton), 2000 West (Syracuse), and Antelope Drive (Syracuse). West Davis also includes over 10 miles of new trail and new trail connections to create a consolidated system connecting Emigration Trail to Legacy Parkway Trail. Doug is responsible for the overall project management, supporting the Project Manager, directing staff and subconsultants, and coordinating with UDOT.
06/09 - 07/12	**Mountain View Corridor Segment 1-3 CMGC, Salt Lake County, UT** **Principal-in-Charge.** Doug served as the PIC for this new 20-mile segment (1-3) of this planned suburban freeway, transit, and trail system, located in western Salt Lake and northwestern Utah counties, serves 13 local municipalities. Horrocks was the design manager, ITS lead designer, and utilities lead designer for the entire 35-mile corridor. Doug was responsible for the overall project management, supporting the Project Manager, directing staff and subconsultants, and coordinating with UDOT.
06/21 - 04/24	**I-15 Davis County; 600 N to Farmington, Davis County, UT** **Principal-in-Charge.** Horrocks led the preparation of a NEPA EIS to improve mobility along I-15 between 600 N in Salt Lake City and US-89 in Farmington to repair aging infrastructure, redesign interchanges to accommodate traffic, and provide facilities for active transportation users. As PIC, Doug was responsible for the overall project management, supporting the Project Manager, directing staff and subconsultants, and coordinating with UDOT.

Doug Graham resume continued

06/21 - 03/23	**State of Utah, Utah State Correctional Facility Offsite Civil, Salt Lake City, UT** **Project Engineer.** The project consists of over 1.3 million SF of buildings on a 170-acre site that required new roadways and utilities. Primary challenges faced by the project team included the site's soft soils, high ground water, and high corrosion potential. Horrocks designed and oversaw the construction of approximately 7 miles of new paved roadway; culinary water system consisting of 7.5 miles of 24-inch welded steel pipe, a 1.5 MG tank, and water booster pump station; a sanitary sewer system (including two 5 MGD sewer pump stations, 7.5 miles of twin force main, and deep gravity collection system) as well as a new storm drainage system. As the project engineer, Doug worked closely with the design team to develop engineering plans, drawings, and specifications. He also conducted engineering calculations and analysis to ensure the design met the strict project requirements and federal regulatory standards.
01/12 - 04/14	**I-80; Parley's Canyon Feasibility Study, Salt Lake County, UT** **Project Engineer.** This study was conducted to determine the feasibility of constructing an auxiliary lane on I-80 in Parley's Canyon between the chain up area (MP 129.5), and the existing auxiliary lane at Lamb's Canyon (MP 136.0) on eastbound I-80 in Salt Lake County. This study determined existing operational characteristics of the roadway with emphasis on heavy vehicle use and expected benefits with an additional lane. A Geospatial Risk Register (GSRR) was developed to map project information and risk along the corridor and help the team assess practical roadway layout assessments, structure widening, hydraulics and water quality including nearby seeps and springs, rock fall protection measures, cut slope stability and other geotechnical issues, and environmental impacts. The Horrocks team developed benefit/cost ratios for various projects beginning points based on construction challenges and costs along with the overall feasibility study document. As the project engineer, Doug worked closely with the design team to develop engineering plans, drawings, and specifications.
08/13 - 06/15	**Salt Lake City International Airport Terminal Redevelopment Program, Salt Lake City, UT** **Project Engineer.** This project consists of construction of a new terminal and concourses, five-level parking garage, consolidated rental car facilities, and central utility plant. The project also includes a new reconfigured roadway network, expanded long-term parking, and a nearly 2,500 foot-long bridge structure supporting the elevated passenger drop-off zone. The new terminal is approximately 1.7 million sq. ft. arranged on three separate levels. These different levels will serve different functions in order to spread out responsibilities such as: commercial passenger drop-off and pick up, domestic and international baggage claims, ticketing, administrative offices, restaurants, shops, and pedestrian bridges for parking. Horrocks is part of the landside civil engineering team and is responsible for all water, sewer, and gas system designs, survey services, SUE services, roadway, drainage, pavement marking, and structure design. Horrocks also played a significant role in the development of schematic designs for all landside civil improvements. As the project engineer, Doug worked closely with the design team to develop engineering plans, drawings, and specifications. He also conducted engineering calculations and analysis to ensure the design met the strict project requirements and federal regulatory standards for aviation.
11/07 - 02/10	**Access Utah County - Alternative Delivery, Utah County, UT** **Project Engineer.** Access Utah County is the consolidation of management of six major highway projects into a single UDOT project management team. SR-92, SR-77, Pioneer Crossing, Vineyard Connector, Payson Bridge Deck Replacement, and Geneva Road widening. By managing all six projects with one team, UDOT was able to accelerate the construction bidding process, enabling each project to be built sooner and provide congestion relief to several communities within the Utah Valley. Horrocks performed the following for the project: preliminary design, hydraulics, structure layouts, ATMS, cost estimate and right-of-way in design-build format with HNTB as prime consultant. As the project engineer, Doug worked closely with the design team to develop engineering plans, drawings, and specifications. He also conducted engineering calculations and analysis to ensure the design met the strict project requirements and regulatory standards. Doug also ensured the quality of the design work and reviewed design documents for accuracy and compliance with project requirements.

STAFF EXPERIENCE:

Group 2 - Alternative Delivery Team

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**TJ Lallathin, PE**			Years of Relevant Experience with this Employer	21
Title	Senior VP of Alternative Delivery			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#72433/FL/02-28-2025		
Year Registered	2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Alternative Delivery			

For this project, TJ will oversee and coordinate the planning and execution of alternative delivery methods, ensuring alignment with project goals and regulatory requirements, managing multidisciplinary teams, and driving innovative solutions to optimize project delivery and performance. TJ has been involved in all phases of design, from preliminary engineering to the final design of highway-related structures for conventional and design-build projects. His bridge design experience includes concrete beams (AASHTO, Florida-I Beams, haunched box beams, post-tensioned girders) and steel girder bridges (I-girder, box girder), flat slab bridges (cast-in-place and prestressed panels), bridge widening, phased bridge replacements, new bridges, and pedestrian bridges.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Design Project Manager** for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
04/16 - 04/18	**SR 528 (Beachline Expressway) at Innovation Way Interchange Design-Build, Central Florida Expressway Authority, Orange County, FL** **Design Project Manager and Structures Engineer of Record** for this design-build project which involved bridge design for five bridge sites and construction of a new interchange alignment between the proposed Innovation Way extension and existing SR 528. Roadway, signing and pavement marking, signalization, fiber optic network, lighting and retaining wall plans were completed upon initiating design. The five bridge sites included two ramp structures over the Brightline rail corridor, two structures carrying Innovation Way over Brightline and SR 528 and one widening at SR 528 over Innovation Way. The two ramp bridges consisted of Florida-I Beams (FIB) supported by post-tensioned, inverted-tee piers and were founded on prestressed concrete piles. In addition, the piers supporting the ramps were oriented at an approximate 60 degree skew angle and implemented aesthetic column shapes. The Innovation Way bridges also used FIBs founded on prestressed concrete piles. The bridge widening at SR 528 implemented AASHTO Type II Beams supported by standard piers. The project included the preparation of structural calculations and final plans for the bridge component, bridge load ratings and design and details for crash walls at the railroad crossings.

TJ Lallathin resume continued

05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), Central Florida Expressway Authority, Osceola County, FL** **Design Project Manager** for this $94.4 million design-build project to widen SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.
09/22 - Ongoing	**I-275 at I-4 Interchange Improvements Design-Build, FDOT District Seven, Hillsborough County, FL** **Design Project Manager** for this interchange improvements project, which includes the design and construction of six new bridges, eight bridge widenings/modifications, four existing bridge coatings, and two existing bridge railing retrofits; widening the existing roadway from 2-lanes to 3-lanes in specific segments; improving existing drainage facilities, and providing complex temporary traffic control plans throughout each phase of the project to minimize disruption for all users. The design-build team's innovative alternative technical concept includes an innovative new dual-lane flyover bridge to accommodate the I-275 southbound traffic onto I-4 eastbound without needing a complex widening. This eliminates over 100 detours by performing off-line construction and provides FDOT with the opportunity to add a new I-4 eastbound auxiliary lane to the Selmon Expressway exit just east of the downtown interchange. Other project design elements include permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, and geotechnical.
01/16 - Ongoing	**I-95 Express Lanes and Ramp Signals – Phase 3A-1 from South of Broward Boulevard to North of Commercial Boulevard, FDOT District Four, Broward County, FL** **Structures Engineer of Record** for the widening of I-95 over Powerline Road as part of a design-build project which involved the widening of I-95 for approximately 6.6 miles and included 13 bridge sites. The existing I-95 over Powerline Road Bridges are twin four-span steel girder bridges consisting 97'-3" approach spans and 153'-3" main spans for an overall bridge length of 501'-0", with the two center spans being continuous. The substructures consist of reinforced concrete abutments and piers founded on prestressed concrete piles. The southbound bridge was widened 28'-2 5/8" and the northbound bridge was widened 27'-8 3/8" in order to incorporate two express lanes in each direction. The widening of the bridges was designed to match the existing structures, with the exception of the pier foundations. With the coordination of the design-build team, drilled shafts were used in place of driven piles to support the new piers in order to minimize the disruptions to traffic along Powerline Road during construction.
08/12 - 07/16	**SR 9B extension from I-95 to US 1 Design-Build, Arcadis, Inc./Superior Construction Company Southeast, LLC. for FDOT District Two, Duval County, FL** **Structures Engineer of Record** for this design-build project which involves design for two twin bridge sites, SR 9B over Veveras Drive and SR 9B over FEC Railroad and US 1. SR 9B over Veveras Drive is single span structure and consists of Florida-I 54 Beams supported by end bents founded on spread footings. Spread footings used in lieu of driven pile served to accelerate the project schedule and reduce construction costs. SR 9B over FEC Railroad and US 1 is a two-span structure and consists of Florida-I 78 Beams (FIB 78) supported by end bents and a standard pier founded on 24-inch square prestressed concrete piles. This FIB 78 superstructure alternative was a major cost and time savings over the conventional steel girders first proposed for this site. Both bridge sites accommodate a future median widening which includes additional piles driven in the median at SR 9B over FEC Railroad and US 1 end bents. The project included the preparation of structural calculations and final plans for all structural components, including bridges, MSE walls, mast arms, a cantilever sign structure, intelligent transportation system poles and bridge load ratings. Also provided Peer Review for the remainder of the bridges on this project.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Matt Horrocks, PE**			Years of Relevant Experience with this Employer	22
Title	Chief Operations Officer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			MS/2004/Civil Engineering | BS/2002/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#5338670/UT/3-31-2025 | PE#021305/NV/6-30-2025 | PE#15265/ID/9/6/2026 | PE#54936/AZ/9/30/2025 | PE#129644/TX/12/31/2024 | PE#58069/WA/12-31-2024 | PE#0057854/CO/10/30/2025 | PE#30474/KS/4-30-2026		
Year Registered	2007	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Alternative Delivery			

Matt's responsibilities for these contracts include managing and directing the implementation of alternative delivery methods to ensure compliance with project objectives and regulatory standards, coordinating cross-functional teams, and fostering innovative approaches to enhance project efficiency and outcomes. Matt is the innovative contracting business line leader for Horrocks, with 22 years of experience in transportation engineering. He is recognized for successfully delivering projects with unique design challenges and tight schedules. Matt specializes in innovative contracting methods such as design-build, CMGC, CMAR, and progressive design-build. Over the past decade, he has led some of Horrocks' most complex and significant projects.

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 - 06/23 SECTION 17 PROJECT	**Reno Spaghetti Bowl Xpress (SBX) Design-Build, Reno, NV** **Principal-in-Charge/Project Manager.** This design-build project included the reconstruction of I-580 from I-80 to Villanova Street. Work involved the widening and reconstruction of I-580 southbound lanes and bridges. In addition, northbound lanes were reconditioned through full-pavement reconstruction methods. The Horrocks/Ames team provided NDOT with an accelerated design and construction schedule and project phasing that enhanced public safety. Due to increased lane capacity, the public benefits from reduced traffic backups and congestion. Matt was responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, ensuring design met all applicable standards, assembling plan set, specifications, engineer's estimate, and preparing final bid documents.
11/15 - 08/17	**USA Parkway Design-Build, Reno, NV** **Principal-in-Charge/Project Manager.** The roadway provides a new 19-mile transportation link between I-80 and US-50 at Silver Springs, the longest new alignment developed by NDOT in several decades. The project had a significant number of cuts and embankments, requiring careful consideration of roadside safety, including barrier/guardrail, cable rail, rock fall catchment and roadside ditch geometry. In addition, the project included 80 culvert crossings requiring significant hydraulic design and hydrological analysis, including energy dissipation and embankment protection, and was designed on a fast track 7-month schedule. This project provides a high-quality, aesthetically pleasing, durable, and maintainable roadway that accommodates increased truck traffic, improves mobility and safety for the public, and supports regional economic development. As Principal and Project Manager, Matt was responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, ensuring design met all applicable standards, assembling plan set, specifications, engineer's estimate, and preparing final bid documents.

Matt Horrocks resume continued

06/08 - 02/12	**I-15; Corridor Expansion (CORE) Design-Build Program Management, Utah County, UT** **Program Management Segment Design Lead.** The I-15 Corridor Expansion (I-15 CORE) project was the largest freeway construction project in the State of Utah, with the fastest construction schedule for a billion-dollar public highway project in United States history. I-15 CORE was constructed for the Utah Department of Transportation (UDOT) by a consortium of local contractors with Horrocks as a major part of the program management team. The I-15 CORE project widened and reconstructed 24 miles of freeway, reconstructed more than four miles of cross streets, rebuilt and reconfigured ten freeway interchanges, and replaced 63 aging bridges. The project was located in Utah County through one of the most heavily trafficked corridors in Utah. In addition to the heavy traffic use, the project encompassed significant coordination with residents, businesses, government agencies, utilities, UTA, UPRR and other stakeholders. The project was completed on schedule and under budget. Matt was responsible for overseeing all design activities for his segment.
08/17 - 04/19	**Garnet Interchange Design-Build, North Las Vegas, NV** **Principal-in-Charge/Project Manager.** The Garnet Interchange 16-month fast-track project called for replacing the existing I-15 bridge structures, built in 1963, while building a new modified diverging diamond interchange. Other improvements consist of a 5-mile-long US-93 widening from two to four divided lanes from the Garnet Interchange to just north of Apex Power Parkway, with added capacity for future expansion. Meanwhile, a partial interchange was created at US-93 and Grand Valley Parkway, better servicing the 2,000-acre Apex Industrial Park in North Las Vegas. A 2-mile-long, two-lane frontage road was also added, parallel to US-93, that connects North Las Vegas Boulevard, Apex Great Basin Way and Grand Valley Parkway, with a future extension to Apex Power Parkway. Matt was responsible for monitoring and directing the performance of design staff, coordinating with client design team, final decision making on key design issues, ensuring design met all applicable standards, assembling plan set, specifications, engineer's estimate, and preparing final bid documents.
05/11 - 05/12	**West Mesquite Interchange Design-Build, Mesquite, NV** **Design Manager.** The project included the reconstruction of the diamond interchange to a roundabout style interchange, improving the on- and off- ramps; reconstruction of I-15 bridges; widening Falcon Ridge Parkway to increase access and safety and improve traffic flow; and providing a new local roadway connection from the interchange to Leavitt Lane. Matt was responsible for overseeing final construction plans and specifications for all design elements within his segment, SUE, utility relocations and agreements, ROW deeds and acquisition, GIS, survey, traffic signals, lighting, ITS, MOT, and storm drainage.
11/07 - 09/12	**Access Utah County - Alternative Delivery, Utah County, UT** **Program Management Roadway Design Lead.** Access Utah County is the consolidation of management of six major highway projects into a single UDOT project management team. SR-92, SR-77, Pioneer Crossing, Vineyard Connector, Payson Bridge Deck Replacement, and Geneva Road widening. By managing all six projects with one team, UDOT was able to accelerate the construction bidding process, enabling each project to be built sooner and provide congestion relief to several communities within the Utah Valley. Horrocks performed the following for the project: preliminary design, hydraulics, structure layouts, ATMS, cost estimate and right-of-way in design-build format with HNTB as prime consultant. Matt was responsible for overseeing all roadway design activities and the development of UDOT's diverging diamond interchange standards and guidelines.
06/14 - 09/15	**SR-303L; US 60 to Happy Valley Parkway - Alternative Delivery, Maricopa County, AZ** **Design Principal/Design Manager.** This five-mile segment of freeway reconstruction required Horrocks to work closely with ADOT and the design-build contractor to ensure all design elements and the project layout was accurate, within schedule, and met current safety standards The team also coordinated with ADOT and adjacent construction projects along the SR 303 to facilitate a seamless flow between the projects during construction. Matt worked with ADOT's team to develop innovative technical solutions and project communication strategies that saved $400,000.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Shane Marshall, PE**	Years of Relevant Experience with this Employer	5
Title	Chief Revenue Officer	Years of Relevant Experience with Other(s) Employers	26
Degree(s)/Years/Specialization	BS/1995/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#0045570/LA/9-30-2025 | PE#20624/ID/4-30-2024 | PE#26393/NM/12-31-2025 | PE#0057544/CO/10-31-2025 | PE#274739-2202/UT/3-31-2025		
Year Registered	1999	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Discipline Lead - Alternative Delivery		

For these contracts, Shane will spearhead the execution of alternative delivery methods, ensuring these approaches meet regulatory standards and project goals, overseeing collaborative efforts across various teams, and promoting innovative practices to improve project delivery and success. Shane has over 30 years of experience in the transportation industry, including five years with Horrocks. Before joining Horrocks, he worked with the Utah Department of Transportation (UDOT) for more than 25 years, where he served as UDOT deputy director and Region 3 director. In his role as Region 3 director, he managed transportation operations and transit planning for six counties in central Utah. Shane is known for his leadership skills, thorough understanding of UDOT and other DOT policies, and ability to build strong relationships with local government leaders. He leverages his communication skills and knowledge of transportation and transit needs, along with his expertise in state DOTs and the Federal Highway Administration (FHWA), to maintain effective relationships with state transportation clients, a key market segment for the firm.

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 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** **CMAR Owner Advisor/Project Manager.** The scope of work for this project includes providing facilitated partnering with the Louisiana Department of Transportation and Development (LADOTD), the design consultant, the contractor, and the ICE. Partnering facilitation includes interviews, an initial workshop, and quarterly follow-up meetings. The scope also includes ongoing strategic advisory services on the execution of the Construction Manager At-Risk (CMAR) process. As the project manager, Shane is helping to identify and interview key project stakeholders to understand their understanding, commitment, and thoughts on partnering. He is also developing material for, attending, and facilitating the initial partnering workshop. Throughout the project, he is providing strategic advisory services to LADOTD.
06/19 - Ongoing	**I-80 and I-215 Renewed - Alternative Delivery, Salt Lake County, UT** **Project Manager.** The project includes three bridge replacements and other structure rehabilitations; modifications/reconfiguration to existing IC ramps; maintaining trail system access; and ROW, utility, ITS, and hydraulic design. Horrocks completed the categorical exclusion, PI through all phases, and worked with UDOT to develop the RLOI, RFQ, and RFP to procure a DB contractor. Derek is the Structures Lead and Deputy Project Manager. The structural role includes design and construction oversight of two bridge slides (1300 East & 1700 East), bridge widening (2300 East), phased 2000 East structure, two temporary bridges, and a number of construction-related repairs/fixes. Shane is serving as Project Manager on this DB project to replace six miles of pavement on I-80 and I-215.

Shane Marshall resume continued

06/21 - Ongoing	**I-15; EIS from Farmington to Salt Lake City, Davis and Salt Lake Counties, UT** **Project Manager.** Horrocks is leading the preparation of a NEPA EIS to identify solutions to improve mobility along I-15 generally between 600 North in Salt Lake City and US-89 in Farmington. The EIS team will evaluate the project area for future construction of a project that involves repairing aging infrastructure, redesigning interchanges to accommodate traffic, and providing comfortable and connected facilities for active transportation users particularly around east-west connectivity. Horrocks is the prime consultant on the EIS and a subconsultant for the Public Involvement contract. The study includes data collection, travel time runs, travel demand modeling, traffic safety, corridor planning, alternatives analysis for multimodal facilities, and public outreach. The goals for the EIS include conducting a holistic, transparent, and technically sound process used to evaluate the long-term mobility needs of diverse communities; proactively engage stakeholders through equitable practices; consider the broad range of perspectives and potential solutions; and enhance quality of life through transportation. Shane is the Project Manager providing overall project management and coordination.
08/19 - 03/22	**Central Corridor Transit Study, Utah County, UT** **Project Manager.** Horrocks lead the Central Corridor Transit Study project for UDOT and UTA for a study area within Utah County, bounded by Geneva Road, I-15, and the US-89 corridors. Gathering traffic and ridership data provided by the participating agencies, Horrocks distilled the complex information into a customized GIS database. Using this data, Horrocks provided a defensible alternatives analysis document with a sound locally preferred alternative from a field of transit alternatives developed during the study. These potential alternatives were developed in cooperation with 11 partnering agencies during the course of five workshop sessions and a three-step public involvement process. In addition to the workshops, a technical committee consisting of the core leadership team of Horrocks, UDOT, UTA, and representatives from the 11 partnering agencies met as needed to ensure that the process is steered by the local governments. The entire project was delivered within an aggressive 12 month schedule. As the Project Manager, Shane was largely responsible for key stakeholder engagement and successfully worked with the broad project team of UDOT, UTA, MAG and seven surrounding communities to obtain their buy-in and approval on a Locally Preferred Alternative. Shane coordinated with 11 agencies, including UTA, to develop and evaluated transit alternatives on a limited number of north-south corridors within Utah County study area. Shane worked with the project partners to determine community goals and opportunities for transit, define the problem, engage stakeholders and the public, and conduct a financial analysis.
10/20 - 11/21	**South Utah County Transit Study Analysis, Utah County, UT** **Project Manager.** Horrocks worked with the Utah Transit Authority (UTA) to engage the public in a planning process to identify a Locally Preferred Alternative (LPA) for transit alignment. Horrocks developed materials to educate the public on transit modes, evaluation criteria, potential alignments and stop locations. The team communicated this information through FAQ sheets, technical summaries, informational handouts, and presentations containing illustrations, photographs, diagrams, charts and graphs to make the information easily accessible and understood by the public. For example, Horrocks was tasked with taking the performance analysis of different transit modes in the area and developing graphics and content that easily compared them to one another. This helped key stakeholders and the public make well-informed comments that helped advance the planning process. As the project manager Shane facilitated communication between UTA, UDOT, and the five cities along the corridor and helped to develop transit alternatives that expand transit service into southern Utah County from Provo to Santaquin.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Kris Peterson, PE**	Years of Relevant Experience with this Employer	2
Title	Utah Transportation Director of Business Development	Years of Relevant Experience with Other(s) Employers	26
Degree(s)/Years/Specialization	MS/1996/Civil Engineering | BS/1995/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#274530-2202/UT/3-31-2025; PE#147586/TX/12-31-2024		
Year Registered	1999	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Alternative Delivery - Contracts/Rules & Policies/Financial Plans		

For these contracts, Kris will develop and manage contract strategies, ensure adherence to relevant rules and policies, and create comprehensive financial plans to support alternative delivery methods, ensuring all aspects align with project objectives and regulatory requirements. Kris has over 28 years of leadership experience in the transportation industry, including 26 years with UDOT, where he held various senior leadership roles such as director of construction and materials, region director, and project development director. At UDOT, he was instrumental in drafting and updating contracts, rules, policies, and guidelines, and served on the UDOT standards committee for over 10 years, including three years as chair. Kris also led the committee through the transition to yearly updated electronic standards and was the selection official for innovative contracting projects and chair of the claims review board. Since joining Horrocks, Kris has led or significantly contributed to several key transportation projects, including the US-89/91 Logan Main Street Study, I-84/US-89 Interchange Environmental, and I-15 Statewide Study.

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	**Mountain View Corridor; Old Bingham Highway to Porter Rockwell, Bluffdale, UT** **Project Manager.** The Horrocks team is designing a new alignment for the existing for SR-85, also known as Mountain View Corridor (MVC) for UDOT. The middle segment will be grade-separated between the Porter Rockwell interchange and the Old Bingham Highway. Four total traffic lanes (two southbound lanes and two northbound lanes) and bridges carrying intersecting cross streets over MVC will be constructed, totaling approximately 22 bridges at 16 locations. The existing highway will be converted into frontage roads with new standard slip-ramps. Not only does this major project entail the management of multiple subconsultant firms to achieve the deadline, but UDOT is using this project as a mentoring and training platform for their junior staff, several of whom will co-locate with the Horrocks team. Kris is responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, ensuring the design met all applicable standards, assembling the plan set, specifications, engineer's estimate, and preparing the final bid documents.
10/22 - Ongoing	**US-89/91; Logan Main Street Study, Logan, UT** **Project Manager.** The Logan Main Street Corridor Study is an Operational Analysis to identify solution sets that will improve mobility and reduce congestion along a 37-block corridor in Logan. For this study, Horrocks is the Prime firm and is providing planning, roadway, and utility services; microsimulation traffic modeling; solution screening; environmental recommendations; and right-of-way (ROW) concept estimates and reports. Kris is responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, and ensuring the preliminary design met all applicable standards.
12/21 - Ongoing	**I-84/US-89; Interchange Environmental, South Weber, UT** **Project Manager.** Phase I of an environmental study to evaluate the current and future needs of the I-84/US- 89 area at the mouth of Weber Canyon to help determine an appropriate Class of Action. The first phase is focused on updating previously completed traffic analyses and to host a brainstorming workshop in an effort vet design solutions from the Concept Report, to possibly consider other potential solutions that haven't been evaluated, and to identify major constraints that could impede implementation of possible solutions. Kris is responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, and vetting preliminary design options to ensure they met all applicable standards.

Kris Peterson resume continued

05/20 - Ongoing	**I-15; Statewide Study, Statewide, UT** **Senior Transit/Transportation Planner.** Statewide study of I-15 to develop a data-driven tool identifying needs, conflicts, and competing priorities on I-15. Analysis involved detailed examination of all statewide models to pinpoint gaps in projects, provide projections of future needs, resolve conflicting future lanes data, identify frontage road gaps, and assess footprint for ultimate buildout. The study team conducted facilitated discussions of priorities with all four UDOT regions and multiple divisions at Central and UDOT leadership. Kris is responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, and vetting preliminary design options to ensure they met all applicable standards.
10/21 - Ongoing	**I-15; Spanish Fork/Springville Interchange Design, Utah County, UT** **Project Manager.** UDOT Region 3 selected the combined team of Horrocks, Kimley-Horn, Lochner, RB&G Engineering, and RDV to provide design services for the Springville/Spanish Fork Interchange on I-15 in Utah County, Utah. UDOT approved the EA completed by Horrocks to evaluate a new interchange on I-15 in order to alleviate congestion at adjacent interchanges, improve safety and mobility, provide access to a newly completed Intermountain Healthcare (IHC) hospital, and develop active transportation facilities along the 1600 South/2700 North corridor. The project was designed by utilizing a digital delivery plan set, which will be advertised and built by a contractor without any plan sheets. This innovative approach will help UDOT achieve its goal of becoming paperless in the future. Horrocks is the prime firm and has provided project management, roadway design, structures design, utility design and subsurface utilities engineering (SUE) coordination, ROW design and documents, and public involvement. Kris is responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, ensuring the design met all applicable standards, assembling the plan set, specifications, engineer's estimate, and preparing the final bid documents.
10/22 - Ongoing	**Snow Basin Slide Repair, Snowbasin, UT** **Project Manager.** This project includes developing and bidding a plan set to repair and protect SR-226 at MP 1.2 due to an active landslide occurring above SR-226. Initiated approximately 500 feet above the road, the slide has lifted and overtopped the travel lanes. The project team is designing the roadway repairs and stabilizing the slide. Services include roadway, signing, striping, survey, and SUE. UDOT is completing the environmental with support from Horrocks. Kris is responsible for monitoring and directing the performance of design staff, coordinating with the client design team, final decision making on key design issues, ensuring the design met all applicable standards, assembling the plan set, specifications, engineer's estimate, and preparing the final bid documents.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Joe Serre, PE**	Years of Relevant Experience with this Employer	3
Title	Constructability Specialist	Years of Relevant Experience with Other(s) Employers	17
Degree(s)/Years/Specialization	BS/2003/Civil and Environmental Engineering		
Active Registration Number/State/Expiration Date	PE#7531239-2202/UT/3-31-2025		
Year Registered	2009	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Alternative Delivery - Constructability/Value Engineering/Cost Estimating		

For these contracts, Joe will evaluate project designs for constructability, conduct value engineering to identify cost-saving opportunities without compromising quality, and develop accurate cost estimates to ensure that alternative delivery methods are both feasible and financially efficient. Joe is a licensed professional engineer with 20 years of experience in construction management, constructability reviews, and cost estimating. He has served as a contractor project manager on many UDOT projects, bringing a deep understanding of project construction. Before joining Horrocks, Joe worked at Geneva Rock for 13 years, where he was an estimator, project manager, and later an area manager overseeing work in Wasatch and Summit counties. Joe's extensive hands-on experience allows him to review project constructability and provide crucial feedback to minimize change orders. He also has significant expertise in reviewing cost estimates throughout a project's lifecycle to ensure budget adherence.

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).
10/21 - Ongoing	**I-15; Spanish Fork/Springville Interchange Design, Utah County, UT** **Constructability Specialist.** UDOT Region 3 selected the combined team of Horrocks, Kimley-Horn, Lochner, RB&G Engineering, and RDV to provide design services for the Springville/Spanish Fork Interchange on I-15 in Utah County, Utah. UDOT approved the EA completed by Horrocks to evaluate a new interchange on I-15 in order to alleviate congestion at adjacent interchanges, improve safety and mobility, provide access to a newly completed Intermountain Healthcare (IHC) hospital, and develop active transportation facilities along the 1600 South/2700 North corridor. The project was designed by utilizing a digital delivery plan set, which will be advertised and built by a contractor without any plan sheets. This innovative approach will help UDOT achieve its goal of becoming paperless in the future. Horrocks is the prime firm and has provided project management, roadway design, structures design, utility design and subsurface utilities engineering (SUE) coordination, ROW design and documents, and public involvement. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.
01/19 - Ongoing	**Midway City General Engineering On-Call, Midway, UT** **Constructability Specialist.** Provide general engineering including project design and construction management. Services include: Address general engineering questions from the public, sewer line design and construction management, capital facility updates, development plan review, and construction inspection. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.
01/19 - Ongoing	**Heber City General Engineering On-Call, Heber, UT** **Constructability Specialist.** General Municipal Engineering for Heber City, including water, wastewater, irrigation water, storm water, transportation, site work, construction management, asphalt pavement, development plan review. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.

Joe Serre resume continued

01/20 - 04/22	**SR-172; 5600 West Railroad Crossing, Salt Lake City, UT** **Constructability Specialist.** This project includes the widening of 5600 W. in both directions, adding traffic signals at various intersections, upgrading the I-80 intersection to a diverging diamond interchange (DDI), and constructing a new bridge over the existing UPRR rail line. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.
04/21 - 01/22	**Bangerter Highway Corridor - Environmental Assessment, Salt Lake County, UT** **Constructability Specialist.** The Bangerter Highway Environmental Study evaluated the conversion of the 12 remaining at-grade, signalized intersections to grade-separated interchanges, which will make Bangerter Highway a free-flowing expressway for its entire length. In addition to the interchanges, other project challenges have included coordination/relocation of a large diameter aqueduct, construction of multiple pedestrian bridges, and city/community outreach. Horrocks is the prime consultant, with HDR, Avenue Consultants, Bowen Collins and Associates, and RB&G as subconsultants. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.
01/19 - Ongoing	**West Davis Highway Program Management - Alternative Delivery, Davis County, UT** **Constructability Specialist.** The West Davis Highway is a new 16-mile, four-lane divided highway project currently under construction in western Davis County. The first phase of construction connected I-15 and Legacy Parkway at approximately Glovers Lane in Farmington, extending west and north, terminating at 4500 West and the future extension of SR-193 in West Point. In future phasing, the highway is planned to extend to 1800 North in West Point. Horrocks is providing Program Management and Design support services to UDOT Region One as a subconsultant to HDR (Prime Consultant), the project is being completed via Design-Build delivery. Freeway-style interchanges with on- and off-ramps will be built at Legacy/I-15 (Farmington), 950 North (Farmington), 200 North (Kaysville), 2700 West (Layton), 2000West (Syracuse), and Antelope Drive (Syracuse). West Davis also includes over 10 miles of new trail and new trail connections to create a consolidated system connecting Emigration Trail to Legacy Parkway Trail. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.
11/21 - 04/22	**I-15; 1800 North Interchange Design, Davis County, UT** **Constructability Specialist.** The Utah Department of Transportation (UDOT) Region 1 has selected the Horrocks and David Evans and Associates (DEA) team to provide environmental re-evaluation and design services for a new interchange on I-15 at 1800 North (SR-37) in Sunset. This interchange will connect 1800 North with Hill Air Force Base east of the I-15 corridor. Horrocks completed the original Environmental Impact Statement (EIS) of this interchange in 2015, which helped in pre-positioning our team for this strategic win. Horrocks is a sub to DEA and will lead the environmental and structures design for this project while also providing Military Installation Development Authority (MIDA) and Hill Air Force Base coordination, active transportation design, constructability and cost estimates, and Subsurface Utility Engineering (SUE) services. As the constructability specialist, Joe prepared documentation, including plans, specifications, construction cost estimates, and constructability. He also provided cost estimation and constructability options. Joe also reviewed any change orders for compliance.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Joe Sonnen, PE**			Years of Relevant Experience with this Employer	4
Title	Program Management Practice Lead			Years of Relevant Experience with Other(s) Employers	8
Degree(s)/Years/Specialization			MS/2012/Civil Engineering | BS/2010/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#16523/ID/12-31-2024 | PE#88614/MT/6-30-2024 | PE#27547/NM/12-31-2024 | PE#10098735-2202/UT/3-31-2025 | PE#52691/WA/12-25-2025		
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Alternative Delivery - Conceptual Engineering/Proposal Development			

For these contracts, Joe will create and refine initial engineering concepts, develop comprehensive proposals for alternative delivery methods, and ensure that these proposals meet technical, regulatory, and project objectives, facilitating innovative and effective project solutions. Joe has 12 years of experience in transportation engineering and has devoted his career to alternative delivery program management for heavy highway projects. He has helped various state DOTs prepare RFPs for design-build highway contracts, including leading the development of design and construction requirements, procurement documents, and preliminary engineering concepts. Joe has led program management contracts for roadway reconstruction and widening projects, site and land development, and multi-use trails. Joe's comprehensive program management experience using various funding sources in multiple states and with complex project scopes will make him a valuable asset to MDT projects.

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).
11/20 - Ongoing SECTION 17 PROJECT	**I-25 Comanche and Montgomery Interchange Design-Build Program Management, Albuquerque, NM** **Deputy Project Manager/Contract Specialist/Document Control.** Joe served as the Deputy Project Manager and procurement lead for the DB Program Management for the Comanche and Montgomery IC project. Located along a busy section of I-25 in Albuquerque, the project involves the development of the DB procurement package, performance specifications, preliminary engineering design services, procurement of the DB team, and construction management of the final project.
11/20 - Ongoing	**Porter Rockwell Bridge Design-Build Program Management, Bluffdale, UT** **Procurement Manager/Contract Specialist/Document Control.** Joe served as the Procurement Manager for this DB project that constructed a bridge across the Jordan River, UPRR rail, UTA rail, and various canals. The bridge connects the roadway segments of Porter Rockwell Boulevard on either side of the Jordan River in Bluffdale, Utah. As the DB Program Manager, the Horrocks team provided project management assistance, quality oversight, design review support, construction field support, materials testing and inspection, baseline schedule and monthly update reviews and analysis, and project controls documentation support among other tasks.
04/21 - Ongoing	**I-25 and Gibson Boulevard Interchange Improvement Design-Build Program Management, Albuquerque, NM** **Deputy Project Manager/Contract Specialist/Document Control.** Joe is serving as Deputy Project Manager and procurement lead for the DB Program Management for the Gibson Blvd Interchange project. The project involves the development of the DB procurement package, performance specifications, preliminary engineering design services, procurement of the DB team, and construction management of the final project.
11/20 - 04/24	**I-80 and I-215 Renewed Design-Build Program Management, Salt Lake County, UT** **Program Management Practice Lead and Contract Specialist.** Joe served as the Program Management Practice Lead and Contract Specialist for this project that includes three bridge replacements and other structure rehabilitations; modifications/reconfiguration to existing IC ramps; maintaining trail system access; and ROW, utility, ITS, and hydraulic design. Horrocks completed the CE, PI through all phases, and worked with UDOT to develop the Request for Letters of Interest (RLOI), RFQ, and RFP to procure a DB contractor.

Joe Sonnen resume continued

09/21 -03/24	**Bangerter Highway 7400 South and 9000 South Intersections to Interchanges, Salt Lake County, UT** **Program Management.** Joe provided program management for multiple Bangerter Interchange projects that included converting two signalized intersections at 4700 South and 9800 South in Salt Lake County to grade separated interchanges. Our team has also recently completed the Program Manager role for the Bangerter 3 and 4 Interchanges project. Horrocks is the prime and will provide project management, complete 30% of the design, develop the RFP, coordinate the utility and SUE designs, conduct public involvement efforts, oversee ROW design and document development, conduct ROW acquisition, coordinate staff augmentation for construction management, and provide Construction Information Management System (CIMS) tools and services during construction.
2015 - 2017	*** Bangerter Highway and 600 West Interchange Design-Build Program Management, Salt Lake County, UT** **RFP Documents; Project Controls Specialist.** The project included a new interchange in a rapidly developing area to keep up with the increasing traffic demands. The project team prepared the concept and RFP documents in less than 3 months to meet the fast-spaced schedule, nearly half the time of other DB projects. With difficult stakeholders, including the City approving construction of a building encroaching into a proposed on ramp, the project team remained flexible in the procurement approach and continued to analyze potential risk and risk mitigations throughout the project.
2016 - 2019	*** Districts 4, 5, & 6; 17 Bridge Replacements Design-Build Program Management, ID** **Procurement Manager/Design Review Lead/Risk Management/Contract Specialist/Document Control.** Joe provided program management of 17 bridge replacements throughout ITD's districts 4, 5, and 6. Horrocks guided ITD through the procurement process as this was the first DB project for all three districts.
2013 - 2016	*** Greensferry Overpass Design-Build Program Management 2013-2016** **Procurement Manager; Design Review Lead.** Although the Post Falls Urban Renewal Agency was funding and building the new overpass over I-90, the City of Post Falls would own the roadway and ITD would own the bridge when the project was complete. Joe guided the procurement process and worked with the renewal agency to complete a bridge that the City and ITD could ultimately accept and meet their standards. As the new overpass was being constructed within an urbanized area, multiple business and residential acquisitions/relocations were required. Through incentivizing a reduced project footprint and working with the contractor on construction phasing, the project was completed on schedule and within budget.

*** Prior Project Experience**

STAFF EXPERIENCE:

Group 3 - Roadway & Hydraulics Design Team

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Alex Farr, PE**			Years of Relevant Experience with this Employer	9
Title	Project Manager			Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS/2011/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#40426/LA/09-30-2024		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Roadway Design/Geometrics			

For these contracts, Alex will serve as the roadway design and geometrics lead, alongside DMRP. He will provide traffic engineering and design services necessary to analyze traffic impacts and develop traffic and geometric solutions. Alex will perform geometric designs and provide geometric reviews to ensure optimal project outcomes. Alex will oversee the design and layout of roadways, ensuring alignment with engineering standards and regulatory requirements. He will manage design teams and optimize geometric design solutions to enhance safety, efficiency, and overall project success.

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).
03/13 – 07/22 SECTION 17 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)** **Project Engineer.** Alex prepared road design plans for the interstate, ramps, and overpasses for all 3 segments of I-10. The TMPs pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Alex was also responsible for the suggested sequence of construction, temporary signing, and quantity computations for each construction funding source and control section. Alex prepared road design plans for the interstate, ramps, and overpasses for all three segments of I-10.
10/20 - Ongoing	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** **Project Manager.** Alex is responsible for the plan development of this project, which is for 16 state projects including 29 bridge replacement sites throughout south Louisiana. This includes preparing the Project Design Report (PDR) as well as the horizontal and vertical geometry. As some bridge sites are allowed to be closed for construction while others must remain open, Alex is also responsible for designing a detour route or diversion road, which includes a suggested sequence of construction. Alex is also responsible for the guardrail design at each bridge site. Along with plan development, Alex will be assisting the Project Manager in subconsultant coordination as well as invoicing and progress reporting to the LADOTD Project Manager.
08/18 – 10/22	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Project Engineer.** Alex was responsible for performing the design of the ramp's profiles, including the super elevation calculations as well as the graphical grades. Alex was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimate.
10/20 - Ongoing	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** **Road and Construction Sequencing Design Reviewer.** Alex is serving as a road and construction sequencing design reviewer, providing support services to DOTD for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I¬12 West and I-10 West exits. Mr. Farr's responsibilities include reviews of roadway plans and construction sequencing with consideration being given to DOTD Design Guidelines and Standard Details and Specifications.

Alex Farr resume continued

05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** **Project Engineer.** Alex was responsible for developing the proposed vertical profiles along the entire mainline corridor as well as their respective service roads, surface streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting the profile to meet the minimum vertical clearance per LADOTD minimum design guidelines. This was performed along this corridor by using as-builts pertaining to their respective locations. Alex was also responsible for calculating the roadway and bridge construction costs for the Project Opinion of Probable Costs
01/17 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** **Project Engineer.** Alex was responsible for the storm sewer drainage design along the northbound and southbound service roads for this project. Alex was also responsible for preparing a traffic signal plan including a traffic signal warrant analysis as well as an operational analysis concerning the two new proposed signals at the NB and SB service roads and Ambassador Caffery. Alex also developed the Transportation Management Plan (TMP) for this project to minimize impacts to the traveling public throughout construction.
10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA** **Project Engineer.** Alex was responsible for performing the Transportation Management Plan (TMP) as well as the Safety Analysis for this project to determine what safety concerns correlated to the construction of this segment. Alex was also responsible for the suggested sequence of construction, guardrail design, and the quantity estimate for the above mentioned project.
2019 - Ongoing	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA** **Project Manager.** Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Road intersection to a new terminus point on Airline Highway. The project includes a 2-mile 4-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, topographic and right-of-way mapping, and stormwater detention ponds to control outfall channel levels. Alex designed the roadway geometrics, typical sections, geometric details, cross sections, MOT, quantities, and construction cost estimates.
2018 - 05/24	**Scotlandville Parkway to Downtown Baton Rouge Bike Trail (H.013267)** **Project Engineer.** Alex served as the project engineer and designed a bike trail from Memorial Stadium to BREC Scotlandville Parkway Park. The design included separated mixed use trails, road to trail conversions, and shared lanes. Alex also prepared the striping and signing plans for this route, quantities and estimated construction cost.
12/14 - 04-19	**Acadian Thruway Safety Improvements (H.011261)** **Project Engineer.** Alex computed project quantities, sequence of construction, and the striping plan for this mill and overlay project. Alex also was responsible for utility location along this segment. He designed geometric alternates for the intersection at Claycut Road.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Name	**Bryan Harmon, PE**		Years of Relevant Experience with this Employer	8
Title	Vice President | Special Projects Engineer		Years of Relevant Experience with Other(s) Employers	33
Degree(s)/Years/Specialization		BS/1981/Agricultural Engineering | BS/1982/Civil Engineering		
Active Registration Number/State/Expiration Date		PE#22595/LA/01-31-2025		
Year Registered	1987	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Hydraulics/Drainage		

For these contracts, Bryan will lead the hydraulic engineering services alongside DMRP, ensuring alignment with engineering standards and regulatory requirements. His responsibilities will include providing hydraulic analysis and design, developing type, size, and location parameters for drainage structures, and establishing project design criteria. Additionally, Bryan will supervise the planning and implementation of hydraulics and drainage systems, ensuring compliance with engineering standards and environmental regulations. He will manage specialized teams and optimize drainage designs to mitigate flood risk and enhance infrastructure resilience.

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).
03/13 – 07/22 SECTION 17 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** **QA/QC.** Bryan performed roadway and drainage design for these three segments of I-10. He also performed superelevation computations and graphical grades to provide positive drainage along relatively flat grades in the median of the interstate. He was also responsible for QA/ QC of the roadway plans and sequence of construction for the LA 347 roundabouts and roadway improvements.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Lead Hydraulic Engineer.** Bryan is the lead hydraulic engineer for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange. Mr. Harmon is responsible for performing HEC-RAS modeling and HYDRO-WIN calculations on the main outfall channel, developing drainage alternatives and associated costs, and QA/QC on the construction plans.
08/18 – 10/22	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Bryan was responsible for the evaluation and design of both the existing and proposed drainage systems for this new four-lane rural arterial and roadway. In addition to the standard DOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of their 2-D Unsteady Flow Hec Ras Model for this region. Due to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.

Bryan Harmon resume continued

10/20 - Ongoing	**I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** **Road Design And Drainage Design Reviewer.** Bryan is serving as both a road design and drainage design reviewer, providing support services to DOTD for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I¬12 West and I-10 West exits. Bryan's responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, construction sequencing, primary drainage systems, open channel design, with consideration being given to DOTD Design Guidelines, Hydraulics Manual, Standard Details and Specifications, and to potential impacts to the Wards Creek drainage basin and adjoining infrastructure developments. Having served as the Drainage Engineer, Chief Engineer, and ultimately the Director of Public works for the East Baton Rouge City-Parish, Bryan brings significant institutional knowledge of the local drainage and roadway systems within the parish and how they may react to this Project modification. He clearly understands the concerns that may be expressed by the local community and the need for proper public-private communication and partnership on a project of this magnitude.
05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** **Supervising Drainage Engineer.** Bryan is serving as Waggoner's supervising drainage engineer for this major interstate improvement project from just east of the Mississippi River bridge crossing to just west of College Drive. Bryan is responsible for the final drainage design of the interstate collection systems, local frontage roads and drainage outfalls including the bridge hydraulic evaluation of the Acadian Thruway Bridge over Dawson Creek.
08/21 – 05/23	**LA 73: US 61 (Airline Hwy.) – LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)** **Project Manager.** Bryan was the project manager for the development of preliminary and final plans to fully reconstruct existing LA 73, including complete pavement and base removal and replacement, curbs and gutters and sidewalks from Airline Highway to the I-12 on-ramp near Drusilla Lane, and for concrete pavement patching and repair of damaged curbs and sidewalks from the I-12 on-ramp to Essen Lane. This plan development consists of all engineering services including a summary of estimated of quantities and cost.
10/20 - Ongoing	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** **Supervising Hydraulic Design Engineer.** Bryan is serving as Waggoner's supervising hydraulic design engineer for the Phase II Rural Bridge Replacement Initiative. Hydrologic and hydraulic evaluations are being developed to provide a hydraulically suitable replacement for the existing bridge structures that have been designated for replacement under this program. All bridge hydraulic reports, data forms, and data tables are being prepared in accordance the current DOTD Hydraulics manual and design directives.
2016 - Ongoing SECTION 17 PROJECT	**Hooper Road (LA 408), East Baton Rouge Parish, LA (H.002316/CP#12-CS-HC-0017)** **Hydraulic Design QA/QC.** The project consists of improving Hooper Road in Central, LA from Blackwater Road to Sullivan Road. Bryan performed all QA/QC and hydraulic design oversight for the project including existing and proposed drainage computations, existing drainage areas, pre and post development stormwater parameters, HEC-RAS models of the five existing major cross drains to evaluate existing and proposed conditions, design of reinforced box culverts for cross drains, open ditches and/or drainage structures and piped systems for storm drainage collection. He was the plan checker for the drainage plan and profile, existing and proposed drainage, and the summary of drainage structure sheets. The design computations were performed using HYDRWIN, Global Mapper, HEC-RAS, Excel, and Civil3D.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Kelsie Bankston, PE**			Years of Relevant Experience with this Employer	2
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	3.5
Degree(s)/Years/Specialization			BS/2018/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#47126/LA/03-31-2025		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design			

For this contract, Kelsie will serve as a roadway designer, creating layouts and plans for roads that prioritize safety, efficiency, and adherence to engineering standards. She will consider traffic flow, terrain, and environmental impacts to optimize designs and minimize risk. Kelsie will also perform hydraulic analysis and design, develop drainage structure parameters, and establish project design criteria. Kelsie is an engineer with a focus on bridge and structural design. Previously, she worked as an engineer intern at Forte & Tablada, Inc., where she conducted site visits, assisted with bridge inspections, prepared reports, and designed bridge replacements. She also trained new engineers and coordinated project progress.

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).
10/20 – Ongoing	**Rural Bridge Replacement Initiative, LA** **Project Engineer.** Kelsie is managing and designing four bridge replacement projects included in this contract. This work includes assessing site conditions, deciding the structure type and size based on the hydraulics of the channel, and designing the roadway approaches. She is responsible for project management, roadway and slab span bridge design, construction plan preparation, quantity computations, and developing an opinion of probable costs.
2021 – 02/23	**LA 73: US 61 (Airline)-Essen Lane, East Baton Rouge, LA (H.010652)** **Project Engineer.** This roadway transfer project involves replacement of the existing LA 73 roadway with a new asphalt pavement section. Kelsie assisted in setting up the base geometry using as-built drawings and survey data for the reconstruction of LA 73, including curb and gutter and sidewalks throughout the limits of the project. She was responsible for all quantity calculations, including compiling the quantity book, and the summary sheets. She also performed the QA/QC of the geometric details.
10/21 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** **Project Engineer.** Kelsie has assisted in the preparation of various submittals for this project. She has assisted in the typical section design, plan and profile preparation, required right-of-way and roadway geometrics for various sections and stages of this project, and is responsible for the graphical grading and superelevation design of multiple ramps throughout the corridor. She is responsible for documenting and tracking information, documents and comments received from LADOTD and other consultants on the design team. Kelsie has performed quantity calculations and prepared quantity tables for various submittal stages.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Project Engineer.** This project involves channel improvements and adding subsurface drainage systems to an outfall channel adjacent to LA 352. Kelsie is responsible for the typical sections, plan profiles, developing a suggested sequence of construction, diversion road design for maintenance of traffic, quantity computations, pay item list, and documentation of comments and responses.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Charlotte Gremillion, PE**			Years of Relevant Experience with this Employer	3
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS/2018/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#47930/LA/09-30-2025		
Year Registered	2023	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Roadway Design/Roundabouts		

For this contract, Charlotte will serve as a roadway and roundabout designer, focusing on creating efficient and safe road layouts and roundabouts. She will develop roadway design criteria, perform geometric design, and ensure all plans adhere to engineering standards and regulatory requirements. Charlotte is experienced with transportation and commercial projects, including road design, geometric design, and on-site work. She is trained and experienced in AutoCAD, Civil 3D, MicroStation, and GlobalMapper, which she uses for plan preparation and design.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/22 - Ongoing	**LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)** **Project Engineer.** This project includes replacing two intersections and the connecting two-lane urban arterial with roundabouts and a four-lane boulevard section. Charlotte responsibilities include roadway geometrics, design reports, technical calculations, and plan development. She designed all typical sections through the addition of two new roundabouts. She identified and assessed the design constraints in the area when deciding the location of the two roundabouts and roadway approaches. She connected the existing conditions to the new designs so that access would not be limited.
05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10 and I-12, Baton Rouge, LA (H.004100)** **Project Engineer.** This project is to replace the urban interstate through downtown Baton Rouge under an alternative delivery process. Charlotte serves as a technical design engineer for urban freeways, grade separation interchanges, urban arterials, urban collectors, and local streets. She is the lead design engineer for roundabouts at the Dalrymple Drive Exit Ramp and Terrance Street at Braddock Street intersection. She prepares roadway design calculations, executes technical reviews, and prepares construction plans for several stages, phases, and segments of the project. She also performs quantity calculations and prepares quantity tables for various submittal stages. She is responsible for plan and profile preparation, cross sections and roadway geometrics for various sections and stages of the project.
2021 - Ongoing	**Rural Bridge Replacement Initiative, LA** **Project Engineer.** Charlotte is in charge of managing a bridge replacement project included in this contract. This work includes assessing site conditions, deciding the structure type and size based on the hydraulics of the channel, and designing the roadway approaches. She will be responsible for preparing the submittals for each of these bridges as well as submitting monthly progress reports.
10/20 - Ongoing	**I-10/I-12 College Flyover, East Baton Rouge Parish, LA (H.013897)** **Project Engineer.** This project includes design upgrades to a grade separation fully directional interchange of two interstates in Baton Rouge, LA. Charlotte serves as a technical review engineer for the owner verification team on the following design units: definitive design, clearing and grubbing, roadway (multiple units), drainage, maintenance of traffic (multiple units), pavement marking and signing, SWPPP, and TMP Level 4. Her responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents. She manages all technical comments originating from her firm and take part in technical review meetings with the design-builder and owner.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Thomas Grass, PE**			Years of Relevant Experience with this Employer	5
Title	Senior Project Engineer			Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization			BS/2007/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#25464/MS/2024		
Year Registered	2014	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design/Geometrics			

For these contracts, Thomas will serve as a roadway and geometrics designer, creating road layouts and plans that prioritize safety, efficiency, and compliance with engineering standards. He will consider factors such as traffic flow and terrain to develop designs that optimize functionality and minimize risk. Through careful analysis and collaboration, he will ensure that the projects meet community needs while maintaining high standards of quality and regulatory compliance. Thomas joined Waggoner in 2018, bringing ten years of experience in project management, 2D and 3D roadway design, traffic signal design, and bridge design. His expertise also includes commercial and passenger railroad design, traffic impact studies, roadway safety audits, and traffic planning and modeling. These projects have ranged from small projects with short deadlines to long-running, multi-disciplinary projects.

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 - Ongoing	**Old Highway 80 Bridge Replacement, Meridian, Lauderdale County, MS** **Discipline Manager.** Thomas served as the transportation discipline manager for this project. Built in 1926, the existing US 80 Bridge over Okatibbee Creek in Lauderdale County needed to be replaced. The old bridge was taken down and replaced with a new bridge that met Mississippi Office of State Aid Road Construction bridge standards. The project included environmental studies and permitting, surveying, hydraulic and hydrological analysis, bridge and roadway design, geotechnical engineering, utility coordination, and construction phase support services. Additional right-of-way and construction easements were acquired. The bridge's age and historical importance qualified it for nomination to the National Register of Historic Places, so Waggoner collaborated with the Mississippi Department of Archives and History to install a historical marker near the new bridge.
01/19 - 12/23	**Highland Commerce Drive, Ridgeland, Madison County, MS** **Discipline Manager.** Thomas served as the transportation discipline manager for this project. Waggoner performed the professional engineering services required for the development of Phase A (Field Review plans) including Utility Relocation phase services, for the Highland Commerce Drive project. The project consists of upgrading 1.5 miles of existing road and an additional 1.5 miles of newly built roadway designed to handle large trucks and encourage development.
2/20 - Ongoing	**Reunion Parkway Phase 2, Madison County, MS** **Discipline Manager.** Thomas's lead roles were roadway design and subconsultant management. This Phase A (Field Review plans) and Phase B (Final Construction plans) project crossed I-55 approximately two miles north of exit 108 and connects with Bozeman Road on the western side and Parkway East on the eastern side. The Reunion Parkway Phase 2 roadway will extend approximately 1.2 miles, including a bridge over I-55, and will include four travel lanes and a multi-use path (bikes and pedestrians). Services provided included design phases services, preparation of maps and deeds, and coordination of underground utility relocation.
08/16 - 1/24	**Riverside Drive Rehabilitation, Jackson, Hinds County, MS** **Lead Designer.** Thomas served as the transportation discipline manager for this project. The project includes design and construction engineering services consisting of rehabilitation and improvements to Riverside Drive. Proposed improvements include geometric modifications to improve the typical section, pavement structure, and incorporate storm drainage improvements, utility relocation, pedestrian/bicyclist amenities, existing and proposed landscape related features, Americans with Disabilities Act (ADA) compliance, roadway signage, and public transportation nodes.

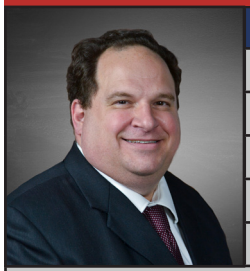
16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Maggie Wei, PE, CFM**			Years of Relevant Experience with this Employer	4
Title	Discipline Manager - Water			Years of Relevant Experience with Other(s) Employers	11
Degree(s)/Years/Specialization			MS/2008/Civil and Environmental Engineering | BS/1999/Applied Physics		
Active Registration Number/State/Expiration Date			PE#45616/LA/2025 | CFM#US-21-12078		
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Hydraulics/Drainage Design			

For these contracts, Maggie will serve as a hydraulics and drainage designer, developing effective drainage systems to manage stormwater and prevent flooding. She will analyze factors such as topography and precipitation to create designs that efficiently collect and control water flow, minimizing environmental impact and enhancing infrastructure resilience. Maggie's work will ensure safe and functional transportation networks under various weather conditions. Maggie joined Waggoner in February 2020, bringing with her 11 years of specialized experience in hydraulic modeling for riverine flooding, storm drainage systems, and wastewater collection systems. She currently serves as the Discipline Manager of the Hydrology and Hydraulics Department, providing technical leadership and supervision on hydraulic design, bridge scour analysis, roadway hydraulics, flood risk analysis, and watershed assessment.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/20 - 12/22	**USDA/NRCS Priority Watershed Assessments, Statewide, MS** **H&H Project Manager.** Maggie was responsible for developing a hydrology model in the HSPF program and performing pollutant reductions analyses in the STEPL tool, as well as preparing a report for watershed assessment. Waggoner coordinated efforts among federal and state agencies that led to the successful development of 26 watershed assessments across Mississippi. These assessments were developed according to requirements specified under the Mississippi River Basin Initiative (MRBI) and the National Water Quality Initiative (NWQI), two major collaborative initiatives between the United States Department of Agriculture (USDA), and the Environmental Protection Agency (EPA). These assessments provide all stakeholders with a framework to help define, quantify, and guide the planning and implementation of watershed protection and restoration activities. The completion of these assessments qualifies the state for federal funding for implementation.
02/22 - Ongoing	**FEMA Risk MAP Program, Statewide, MS** **H&H Project Manager.** Maggie is providing and managing H&H design services for this program. The FEMA Risk Map Program consist of multiple projects within 15 HUC-8 watersheds in Mississippi. Some of the projects have been completed and others are currently in progress. The completed work that Maggie managed includes extensive hydraulic surveying and modeling, publishing over 3,000 individual flood insurance rate maps, and working with community officials to help put these new tools to use. This program is ongoing for the Mississippi Department of Environmental Quality (MDEQ).
07/20 - Ongoing	**East Brandon Bypass, Brandon, Rankin County, MS** **H&H Project Manager.** Maggie provides and manages all hydraulics and hydrology efforts for the East Brandon Bypass project. Waggoner was tasked with completing the planning phase of the East Brandon Bypass, a 2.5-mile corridor intended to alleviate downtown traffic while allowing for future growth.
08/22 - 12/23	**US 72 at Little Yellow Creek and Tennessee-Tombigbee Waterway, Burnsville, Tishomingo County, MS** **Project Manager.** Maggie led all hydraulics and hydrology efforts for the project at Little Yellow Creek and Tennessee-Tombigbee Waterway. This work assignment, under MDOT's Hydraulic Engineering Services Master Contract, provided Phase I and Phase II bridge scour analysis which included data collection and qualitative analysis, hydrologic and hydraulic analyses, and scour analysis for bridge sites of US 72 for Little Yellow Creek and Tenn-Tom Waterway.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.				
Name	**Anthony Smith**		Years of Relevant Experience with this Employer	10
Title	Alternative Delivery Design Specialist		Years of Relevant Experience with Other(s) Employers	9
Degree(s)/Years/Specialization		AA/1998/Civil Engineering		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Roadway Design/Complex Interchange Design		

For these contracts, Anthony will focus on creating intricate road layouts and interchange designs that optimize traffic flow, safety, and efficiency. He will meticulously analyze factors such as traffic volume, geometric constraints, and existing infrastructure to develop innovative solutions that address complex transportation challenges. Through advanced engineering techniques and collaboration, Anthony will ensure seamless integration of road networks, enhancing connectivity and facilitating smooth travel experiences. Anthony has over 20 years of experience in producing plans for both roadway and temporary traffic control design projects and is proficient in MicroStation, GEOPAK, AutoTURN, and GuideSIGN. His responsibilities also include preparing design calculations and reports for a variety of projects, including pavement design, typical section package, horizontal and vertical geometry, superelevation layout, guardrail calculations, limited access interchange design and intersection design, lane closure calculations, and traffic pacing calculations.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, FDOT District Five, Seminole County, FL** **Senior Roadway Designer** responsible for horizontal and vertical geometry of the project concept and Alternative Technical Concepts, for the design and construction of 2.63 miles of limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417, and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams, and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling, and surcharge areas to consolidate deep muck.
04/18 - 02/20	**SR 528/SR 436 Interchange Improvements and SR 528 Widening from SR 436 to Goldenrod Road (Contract#528-143), Central Florida Expressway Authority, Orange County, FL** **Senior Roadway Designer** responsible for horizontal and vertical geometry and Temporary Traffic Control Plans for the reconstruction of the SR 528/SR 436 interchange and widening of SR 528 from 4-lanes to 6-lanes with an auxiliary lane eastbound to Goldenrod Road and westbound to Conway Road. This project includes construction of seven new bridges using a mix of steel box girders and concrete Florida-U Beams as well as the replacement of one box culvert. This project also involved extensive coordination with the Greater Orlando Aviation Authority and the Federal Aviation Administration as this interchange serves as the north entrance and exit to the Orlando International Airport. The high-profile design and critical connection to the tourist and business hubs of central Florida is crucial to maintain the highest level of service during all phases of development, combined with a short construction duration of just over two years, aesthetic improvements of terraced walls with pylons, made the TTCP the one of the most important parts of the design. Other project design elements included complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, and geotechnical analysis.

Anthony Smith resume continued

11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **Senior Roadway Designer** for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U beams and three using steel box girders, and four bridge widenings, where three are using Florida-I beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps, and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County, and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics, and geotechnical services.
05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), The Lane Construction Corporation for Central Florida Expressway Authority, Osceola County, FL** **Senior Roadway Designer** for this $94.4 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue, and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling, and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.
09/22 - Ongoing	**I-275 at I-4 Interchange Improvements Design-Build, The Lane Construction Corporation for FDOT District Seven, Hillsborough County, FL** **Senior Roadway Designer** for this interchange improvements project, which includes the design and construction of six new bridges, eight bridge widenings/modifications, four existing bridge coatings, and two existing bridge railing retrofits; widening the existing roadway from 2-lanes to 3-lanes in specific segments; improving existing drainage facilities, and providing complex temporary traffic control plans throughout each phase of the project to minimize disruption for all users. The design-build team's innovative alternative technical concept includes an innovative new dual-lane flyover bridge to accommodate the I-275 southbound traffic onto I-4 eastbound without needing a complex widening. This eliminates over 100 detours by performing off-line construction and provides FDOT with the opportunity to add a new I-4 eastbound auxiliary lane to the Selmon Expressway exit just east of the downtown interchange. Other project design elements include permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, and geotechnical.
02/14 - 06/15	**SR 528 (Beachline) Widening from I-4 to Florida's Turnpike (MP 0-4.3), Florida's Turnpike Enterprise, Orange County, FL** **Senior Roadway Designer** for widening 4.3 miles of SR 528 from a 4-lane to 8-lane limited access toll facility with inside express toll lanes with delineators in each direction. Project limits are from I-4 to Florida's Turnpike. Plans include roadway, drainage, bridge widenings with Florida-I Beams (six sites), replacement bridges (one site), ramp bridges (two sites), toll gantry, signing and pavement marking, maintenance of traffic, lighting, signals, intelligent transportation system, environmental permitting, and surveying.
09/15 - 01/19	**SR 408 Widening from SR 417 to Alafaya Trail (Contract 408-128), Central Florida Expressway Authority, Orange County, FL** **Senior Roadway Designer** for the widening of a limited access toll facility from 4-lanes to 6-lanes, continuing the overall widening of SR 408 from downtown Orlando to the eastern roadway terminus at Alafaya Trail, includes interchange modification with the reconstruction of two ramps at Rouse Road, existing mainline toll plaza modifications, one new ramp toll plaza, three bridge widenings, and one bridge replacement over Alafaya Trail. The widening alleviates congestion at the current point of lane reduction just east of the SR 417 interchange, adds capacity with additional travel lanes and auxiliary lanes, improves safety with features such as increased clear zones, wrong way detection, and guardrail height. Design elements include highway design, drainage, structures, intersections, interchanges, toll plazas, temporary traffic control plans, lighting, intelligent transportation systems, signalization, signing and pavement marking, and utility coordination.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Kim Sadowski, PE, RSP1**			Years of Relevant Experience with this Employer	12
Title	Roadway Project Manager			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/1999/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#87312/FL/02-28-2025		
Year Registered	2019	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Roadway Design/Geometrics		

For these contracts, Kim will craft road layouts and geometries prioritizing safety, efficiency, and compliance with engineering standards. She will consider factors such as traffic patterns and terrain to develop designs optimizing functionality while minimizing risk. Through meticulous analysis and collaboration, she will ensure projects meet community needs while upholding quality and regulatory standards. Kim's experience includes the design and production of roadway design, pavement design, and minor drainage design. The scope of projects she has completed ranges from minor intersection improvements to major roadway reconstruction projects. She is trained in specifications, utility coordination, and maintenance of traffic.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/18 - 12/21	**5th Street over Yacht Club Cut Bridge Replacement, City of New Smyrna Beach, Volusia County, FL** **Roadway Designer and Roadway Engineer of Record** responsible for the PD&E study and final design for this bridge replacement project. The facility is a 2-lane roadway providing access from the mainland to an island community and marina. The bridge typical section consists of two 9-foot lanes, with 2.5-foot shoulders and a 5-foot sidewalk with traffic railings. The bridge superstructure is comprised of a 3-span Florida Slab Beam (FSB) superstructure using stainless steel reinforcing and consisting of 54-foot spans. The roadway and bridge will be reconstructed on the existing alignment. A temporary ACROW bridge will provide access during the bridge replacement. Scour and tidal influences will play a critical role in design of the structure. The project included two public meetings; one in person and one virtual. A Type I Categorical Exclusion was approved for the project. Mitigation planning included establishing an off-site preservation area and relocating oysters within the project footprint. US Coast Guard and National Marine Fisheries Services coordination and environmental permitting with the St. Johns River Water Management District (SJRWMD) and USACE was completed. This project includes PD&E study, public meeting coordination, Coast Guard coordination, mitigation and environmental permitting, geotechnical investigations, survey, right-of-way mapping, utility coordination, roadway, drainage, coastal hydraulics, structures, lighting and signing and pavement marking. This is a LAP project between the City of New Smyrna Beach and District Five. This project is currently in construction.
02/06 - 03/19	**SR 312 Ultimate Extension, FDOT District Two, St. Johns County, FL** **Roadway Designer** for a 4.1-mile new alignment project from just south of SR 207 to SR 16. The project developed 45% plans to include design of a 6-lane urban and suburban typical design of four bridge structures, stormwater treatment facilities, permitting, widening, milling and resurfacing, maintenance of traffic, utility coordination, signing and pavement marking, signalization, survey and development of right-of-way maps.
05/22 - Ongoing	**SR 312 Extension from SR 207 to SR 16, FDOT District Two, St. Johns County, FL** **Engineer of Record** for a 4.1-mile alternative alignment study for the SR 312 corridor from SR 207 to SR 16 based on the proposed new alignment shown in the previously developed 45% plans. The project includes PD&E Support for the Environmental Re-evaluation and preparation of final plans for the selected preferred alternative.

Kim Sadowski resume continued

06/15 - 03/21	**US 1 Intersections Bundle and SR 600 from Emmett Street to North Charles Street, FDOT District Five, Brevard, and Volusia Counties, FL** **Roadway Designer** responsible for roadway and traffic improvements at several intersections along SR 5/US 1 and SR 600/US 92 from Emmett Street to North Charles Street. Specifically, she was responsible for design of traffic signal improvements to install mast arms at five intersections along SR 5/US 1 including at Hibiscus Boulevard, SR 500 (US 192), Ballard Drive/Babcock Street, Prospect Avenue and New Haven Avenue. She was also responsible for drainage improvements to mitigate flooding issues on SR 600/US 92 from Emmett Street to North Charles Street by constructing additional curb inlets and replacing the existing storm drain trunkline with a larger pipe system.
05/20 - 01/24	**SR 5 Castaway Marine Drainage Outfall and Resurfacing, KCA for FDOT District Five, Brevard County, FL** **Engineer of Record** that was responsible for construction plans for maintenance of traffic for the replacement of a failing cross drain system from the west side of SR 5/SR 500 south of Madrid Drive. This section is a 4-lane, divided rural with paved shoulders and sidewalks in each direction. The failing cross drain falls within an existing drainage easement through the Castaway Marine property on the east side of SR 5/SR 500 and discharges into the Indian River Lagoon. Tasks included roadway analysis, roadway plans, drainage analysis and plans, environmental permits, signing and pavement marking, lighting analysis and plans. Permits obtained include SJRWMD general permit and USACE Nationwide permit.
09/19 - 09/21	**SR 312 Interim Extension from SR 312/SR 207 Intersection to Holmes Boulevard, FDOT District Two, St. Johns County, FL** **Roadway Engineer and Roadway Engineer of Record** responsible for construction plans for the design of an interim 2-lane facility along the proposed SR 313 corridor between SR 207 and Holmes Boulevard. The new alignment includes stormwater treatment, permitting, widening, milling and resurfacing, maintenance of traffic, utility coordination, signing and pavement marking, signalization, lighting and survey for a rural 2-lane typical. This project is currently in construction.
04/10 - 01/16	**SR 223, Starke Bypass Segment 2, FDOT District Two, Bradford County, FL** **Roadway Designer** responsible for plans preparation for the design of a 2.2-mile new alignment 4-lane rural facility. The project includes new alignment, milling and resurfacing of existing side streets, drainage, permitting, two bridges, maintenance of traffic, utility coordination, signing, and pavement marking, signalization, right-of-way acquisition and public involvement.
01/19 - 12/22	**SR 31 PD&E Study, FDOT District One, Lee County, FL** **Roadway Designer** responsible for evaluating alignment alternatives to consider the widening of SR 31 and replacement of the Wilson Pigott Bridge over the Caloosahatchee River from SR 80 to SR 78 in Lee County. Alternatives are being evaluated to determine the best option to meet the purpose of the project while avoiding and minimizing the impacts to the Florida Gas Transmission line, Sweetwater Marina and natural resources.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Mike Jaroch, PE**			Years of Relevant Experience with this Employer	2
Title	Drainage Chief Engineer			Years of Relevant Experience with Other(s) Employers	28
Degree(s)/Years/Specialization			BS/1987/Industrial Engineering		
Active Registration Number/State/Expiration Date			PE#48951/FL/02-28-2025		
Year Registered	1995	Discipline	Industrial Engineering		
Contract Role(s)/Brief Description of Responsibilities		Hydraulics/Drainage Design			

For these contracts, Mike will devise efficient drainage systems to manage stormwater and prevent flooding. He will analyze factors such as topography and precipitation to create designs that effectively collect and control water flow. By minimizing environmental impacts and enhancing infrastructure resilience, his work ensures safe transportation networks under various weather conditions. Mike is responsible for stormwater management system analysis, design, and permitting on traditional design-bid-build and alternative delivery (design-build) transportation projects, as well as managing drainage continuing services contracts. His areas of expertise include the design of stormwater management systems, drainage infrastructure design, drainage forensic studies, PD&E pond siting and location hydraulics reports, QA/QC reviews, and environmental resource permitting on complex highway and interchange projects.

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).
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Chief Drainage Engineer** responsible for post design services, including RFIs, plan revisions, and technical guidance on drainage related field conditions for this new $134.6 million, 4-lane limited access all-electronic tolling facility. The project included a Bridge Development Report, structural calculations and plans production for five sites along SR 589 and one pedestrian bridge site over US 98; all using Florida-I Beams. Three sites consisted of twin overpass structures along SR 589; one site consisted of a two-span structure over SR 589 with aesthetic piers; and the final site consisted of twin bridges over a Wildlife Crossing. All sites included the design of MSE retaining walls. Plans included the design of roadway, drainage, signing and pavement markings, structures, lighting, signals, intelligent transportation systems, environmental permitting and surveying. This project is currently in construction. Mr. Jaroch provided drainage design and permitting services for nine miles of new 4-lane expressway (expandable to 8-lanes) from US 98 north to Grover Cleveland Boulevard.
01/19 -12/22	**SR 31 PD&E Study, FDOT District One, Lee County, FL** **Lead Drainage Engineer** responsible for location hydraulics and pond siting reports for the PD&E phase, the primary stormwater management system and secondary drainage infrastructure design, floodplain impacts and compensation, and ERP permitting up through 60% plans. The PD&E study evaluated the widening of SR 31, including the replacement of the Wilson Pigott Bridge over the Caloosahatchee River from SR 80 to SR 78 in Lee County. Alternatives are being evaluated to determine the best option to meet the purpose of the project while avoiding and minimizing impacts to the Florida Gas Transmission line, Sweetwater Marina and natural resources. Multiple roadway alignments and bridge configurations were considered in an effort to avoid Florida Gas Transmission lines, minimize wetland impacts and to maintain access to an existing marina on the southern shoreline. The preferred alternative will be advanced to final design.

Mike Jaroch resume continued

05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), The Lane Construction Corporation for Central Florida Expressway Authority, Osceola County, FL** **Drainage Engineer of Record** for segments 1A, 1B, and 4. Responsible for leading the primary and secondary drainage design and ERP permitting for three segments of this $94.4 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. He was also responsible for management of production staff. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority.
11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **Chief Drainage Engineer** responsible for quality control review. He reviewed the plans and drainage calculations for compliance with the FDOT Drainage Manual, Drainage Design Guide, Florida Design Manual, and to maintain historic flows and drainage patterns. This new systems interchange connects SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics and geotechnical services.
11/19 - 03/24	**I-4 at SR 557 Interchange Design-Build, Skanska, Inc. for FDOT District One, Polk County, FL** **Chief Drainage Engineer** responsible for post design services, including RFIs, plan revisions, and technical guidance on drainage related field conditions. This $70.5 million design-build project involved the reconstruction of an interchange from a partial cloverleaf to a diamond with dual tear-drop roundabouts. He is also responsible for management the production staff. This project included the realignment of I-4 to accommodate for the future High-Speed Rail corridor as well as the I-4 Master Plan (Ultimate) Typical section, reconstruction of SR 557 from 2-lanes to 4-lanes, a new 4-lane SR 557 bridge over I-4 using Florida-I 84 Beams, a new SR 557 wildlife culvert crossing and emergency stopping areas on both I-4 ramps. Additionally, this project included the first wildlife crossing under I-4 in Polk County using Florida-I 36 Beams to accommodate the Hilochee Wildlife Management Area. The project also included drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems and lighting. The design-build team's innovative alternative technical concepts include a shift of the SR 557 bridge that expedited the project schedule and saved $1 million in project costs.
09/22 - Ongoing	**I-275 at I-4 Interchange Improvements Design-Build, The Lane Construction Corporation for FDOT District Seven, Hillsborough County, FL** **Drainage Engineer** responsible for drainage post design support for this interchange improvements project, which includes the design and construction of six new bridges, eight bridge widenings/modifications, four existing bridge coatings, and two existing bridge railing retrofits; widening the existing roadway from 2-lanes to 3-lanes in specific segments; improving existing drainage facilities, and providing complex temporary traffic control plans throughout each phase of the project to minimize disruption for all users. The design-build team's innovative alternative technical concept includes an innovative new dual-lane flyover bridge to accommodate the I-275 southbound traffic onto I-4 eastbound without needing a complex widening. This eliminates over 100 detours by performing off-line construction and provides FDOT with the opportunity to add a new I-4 eastbound auxiliary lane to the Selmon Expressway exit just east of the downtown interchange. Other project design elements include permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, and geotechnical.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.				
Name	**Don Brown, PE**		Years of Relevant Experience with this Employer	27
Title	Drainage Division Leader		Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization		BS/1997/Civil Engineering		
Active Registration Number/State/Expiration Date		PE#59272/FL/2-28-2025		
Year Registered	2003	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Hydraulics/Drainage Design/Environmental Services		

For these contracts, Don will develop drainage systems that manage stormwater while considering environmental impacts. He will analyze topography and precipitation to design systems that collect and control water flow efficiently. By minimizing environmental disruption and enhancing infrastructure resilience, he will ensure sustainable transportation networks. Don is responsible for the management and development of stormwater management systems and permitting for transportation projects. His areas of expertise include drainage design oversight, permitting of stormwater management systems (primary and secondary), floodplain modeling, bridge hydraulics analysis, pond siting analysis, and quality assurance/quality control. He has acquired a strong knowledge base in environmental regulatory permitting at the federal, state, and local levels.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Senior Drainage Engineer and Drainage Engineer of Record** responsible for design and permitting of stormwater management systems (primary and secondary), floodplain modeling and compensating storage design for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Deputy Project Manager and Drainage Engineer of Record** for the design of nine miles of new limited access all-electronic tolling facility to extend the Suncoast Parkway. The 9-mile section included 10 bridges and two diamond interchanges and toll facilities. This work also involved managing a re-evaluation for the entire 27-mile corridor and environmental permitting for the entire project. Provided drainage design and permitting services for nine miles of new 4-lane expressway (expandable to 8-lanes) from US 98 north to Grover Cleveland Boulevard.
01/13 - 03/13	**Suncoast Parkway Emergency Flood Repairs (MP 54-55), Florida's Turnpike Enterprise, Hernando County, FL** **Lead Drainage Engineer** for preparation of a drainage report documenting analysis and stormwater modeling to evaluate long term solutions for roadway flooding. The parkway experienced flooding of the shoulders in 2004 and complete closure of all lanes in 2012. Responsibilities also included preparing construction plans to expand ponds to eliminate flooding at the northern end of the existing Suncoast Parkway. The construction plans included work to expand an existing pond just south of US 98, stockpiling of dirt and environmental work for gopher tortoises and permitting.

Don Brown resume continued

06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Drainage Quality Reviewer** responsible for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
07/18 - 12/21	**5th Street over Yacht Club Cut Bridge Replacement, City of New Smyrna Beach, Volusia County, FL** **Senior Drainage Engineer and Drainage Engineer of Record** responsible for the design and permitting of stormwater management systems (primary and secondary) for this bridge replacement project. The facility is a 2-lane roadway providing access from the mainland to an sland community and marina. The bridge typical section consists of two 9-foot lanes, with 2.5-foot shoulders and a 5-foot sidewalk with traffic railings. The bridge superstructure is comprised of a 3-span Florida Slab Beam (FSB) superstructure using stainless steel reinforcing and consisting of 54-foot spans. The roadway and bridge will be reconstructed on the existing alignment. A temporary ACROW bridge will provide access during the bridge replacement. Scour and tidal influences will play a critical role in design of the structure. The project included two public meetings; one in person and one virtual. A Type I Categorical Exclusion was approved for the project. Mitigation planning included establishing an off-site preservation area and relocating oysters within the project footprint. US Coast Guard and National Marine Fisheries Services coordination and environmental permitting with the St. Johns River Water Management District (SJRWMD) and USACE was completed. This project includes PD&E study, public meeting coordination, Coast Guard coordination, mitigation and environmental permitting, geotechnical investigations, survey, right-of-way mapping, utility coordination, roadway, drainage, coastal hydraulics, structures, lighting and signing and pavement marking. This is a LAP project between the City of New Smyrna Beach and District Five. This project is currently in construction.
04/18 - 02/20	**SR 528/SR 436 Interchange Improvements and SR 528 Widening from SR 436 to Goldenrod Road (Contract#528-143), Central Florida Expressway Authority, Orange County, FL** **Senior Drainage Engineer** responsible for drainage design oversight and quality control for the reconstruction of the SR 528/SR 436 interchange and widening of SR 528 from 4-lanes to 6-lanes with an auxiliary lane eastbound to Goldenrod Road and westbound to Conway Road. He was also responsible for the management of production staff. This project includes construction of seven new bridges using a mix of steel box girders and concrete Florida-U Beams as well as the replacement of one box culvert. This project also involved extensive coordination with the Greater Orlando Aviation Authority and the Federal Aviation Administration as this interchange serves as the north entrance and exit to the Orlando International Airport. Other project design elements included complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems and geotechnical analysis.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Steve Wallace, PE**			Years of Relevant Experience with this Employer	8
Title	Roadway Senior Project Manager			Years of Relevant Experience with Other(s) Employers	20
Degree(s)/Years/Specialization			BS/1997/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#59537/FL/02-28-2025		
Year Registered	2003	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design/Toll Facilities			

For these contracts, Steve will focus on designing roadways that incorporate toll facilities efficiently. He will analyze traffic flow, tolling technology, and user experience to create designs that optimize traffic management and revenue collection. By considering factors like accessibility and safety, he will ensure the integration of tolling infrastructure within road networks, enhancing transportation efficiency and user satisfaction. Steve is currently responsible for project management and design services for transportation projects. He has worked with all eight Florida Department of Transportation Districts. In addition to the Department, Steve has worked with several municipal and private clients, giving him extensive depth in roadway design and construction. His background includes roadway design, drainage design, construction, utilities, PD&E, and specifications.

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).
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Roadway Engineer** for the design of approximately nine miles of roadway and the interchanges with US 98 and Cardinal Road. The overall project is a new limited access all-electronic tolling facility to extend the Suncoast Parkway. Responsibilities included design, project coordination, administrative duties and quality control. This section included 10 bridges, two diamond interchanges and toll facilities. The complete design included plans for: roadway, drainage, bridge, signing and pavement markings, signals, lighting, intelligent transportation systems, right-of-way mapping and environmental permitting. This work also involved managing a re-evaluation for the entire 27-mile corridor and environmental permitting for the entire project. Specific responsibilities include: response and development of typical section package, pavement design, pavement selection, cost estimating and specification review.
01/19 - 12/22	**SR 31 PD&E Study, FDOT District One, Lee County, FL** **Lead Roadway Engineer** for the preliminary engineering report and the Engineer of Record for the preliminary engineering report document. The SR 31 PD&E project studies alternative alignments to convert the existing 2-lane, undivided highway into a 6-lane divided urban roadway system. The project also features a major bridge replacement of the Wilson Pigott Bridge spanning the Caloosahatchee River. The project is oriented north-south and begins at SR 80, ending at the intersection with SR 78. The project will evaluate alternative alignments, major utility coordination (including FGT), pond siting, environmental permitting, benefit/cost analysis and recommendation for alignment.
02/14 - 06/15	**SR 528 (Beachline) Widening from I-4 to Florida's Turnpike (MP 0-4.3), Florida's Turnpike Enterprise, Orange County, FL** **Roadway Engineer** in support of widening 4.3 miles of SR 528 from a 4-lane to 8-lane limited access toll facility with two inside express toll lanes separated by a 4-foot buffer with delineators in each direction. Plans include roadway, drainage, bridge widenings with Florida-I Beams (three sites), replacement bridges (one site), new ramp bridges (two sites), toll gantry, signing and pavement markings, maintenance of traffic, lighting, signals, intelligent transportation systems, environmental permitting and surveying. Project tasks included development of design variations/exceptions for shoulder width and lane width, coordination with Florida's Turnpike Enterprise and comment resolution.

Steve Wallace resume continued

07/21 - Ongoing	**I-175/SR 594 Concrete Rehabilitation, FDOT District Seven, Pinellas County, FL** **Project Manager** for this Concrete Rehabilitation Project on I-175 from E. 16th Street South to 4th Street South in the City of St. Petersburg, Florida. I-175 (SR 594) is an Limited Access Interstate Highway. This roadway is an SIS corridor and varies from 4-lanes to 6-lanes. The concrete rehabilitation improvements will include rigid pavement rehabilitation for concrete pavement slabs of the existing mainline and ramps with milling and resurfacing of the asphalt portions of the mainline roadway, shoulders and ramp lanes. Services being provided include pavement design, slab maintenance scheduling, milling and resurfacing, drainage, signing and pavement markings, miscellaneous structures, lighting, design survey, Terrestrial Mobile LiDAR and public involvement.
06/18 - 05/21	**SR 50 Widening, FDOT Districts Five and Seven, Hernando and Sumter Counties, FL** Steve was responsible design support, QC support, FDOT coordination, public involvement and project management assistance for widening eight miles of SR 50 from 2-lanes to 4-lanes from east of US 301 to east of CR 757. The project extends through the Withlacoochee State Forest and involves extensive environmental coordination with US Fish and Wildlife Service, Southwest Florida Water Management District, US Forestry Service, Acquisition and Restoration Council, two FDOT Districts and local agencies. New bridges are being designed at the existing CSX railroad crossing and Little Withlacoochee River. Project includes roadway, drainage, bridges, signing and pavement marking, maintenance of traffic, environmental permitting, right-of-way mapping and public involvement.
07/09 - 08/13	**I-275 Widening, FDOT District Seven, Hillsborough County, FL** **Roadway Engineer** for this project that was one of several in a component set and multi-phase plan to widen I-275 through downtown Tampa. The project started at the Howard Frankland Bridge and stopped at the Hillsborough River. The project specifically provided for the widening of I-275 and the addition of several on/off ramps, the relocation for exits and provisions for an High-occupancy vehicle lane or High Speed Rail corridor. The project also connects to another project improving traffic to and from the Tampa International Airport. He was in charge of writing and phasing all Maintenance of Traffic plans. His responsibilities included planning of phases, location of temporary pavement, general notes, phase notes, typical section development, specifications, quantities and cost estimation. Steve is advanced Maintenance of Traffic certified and developed all plans and specification according to FDOT criteria for limited-access facilities.
08/18 - 12/21	**SR 45/US 41/Broad Street, FDOT District Seven, Hernando County, FL** **Engineer of Record and Project Manager** responsible for the concrete pavement design, intersection layout design, maintenance of traffic coordination and support services during construction. The US 41 project in Brooksville, Florida is a resurfacing and reconstruction project. In addition to scheduled pavement resurfacing the project also included the replacement of asphalt pavement with Rigid Concrete construction at the intersection of Wiscon Road. Professional services included Rigid Pavement/Concrete design, intersection design, constructability, maintenance of traffic, FDOT coordination and support during construction.
10/18 - 12/30	**Goodland Drive Reconstruction, GradyMinor for Collier County, FL** **Engineer of Record** responsible for roadway design, Full Depth Reclamation design, permitting coordination, FDOT coordination and services during construction. Goodland Road is a landlocked road that provides ingress/egress to the town of Goodland, Florida. The road is subject to extreme tidal flooding and often creates safety concerns for the passing of vehicles and any potential emergency services. The project goal was to raise the road an average of 15-inches to improve safety and upgrade existing features to current standards. The reconstruction of the road also includes rebuilding the 8-foot multi-use path. Professional services include roadway reconstruction, pavement design, Full Depth Reclamation design, signing and pavement marking, environmental permitting, maintenance of traffic, drainage design, surveying, utility relocation, decorative brick design, FDOT coordination and services during construction.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Bruno Arriola, PE**			Years of Relevant Experience with this Employer	10
Title	Roadway Engineer			Years of Relevant Experience with Other(s) Employers	3
Degree(s)/Years/Specialization			BS/2009/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#88984/FL/02-28-2025		
Year Registered	2020	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway & Hydraulics			

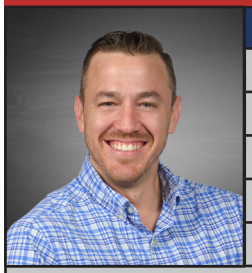
For these contracts, Bruno will focus on the integrated design of roadway and hydraulic infrastructure to ensure efficient water management and safe transportation. Bruno has served as deputy project manager and project manager for municipal clients and is currently responsible for providing plans for production support, as well as assisting with research and roadway analysis necessary for design and report generation. He is proficient with MicroStation, AutoCAD Civil 3D, OpenRoads Designer, and MS Project.

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).
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Roadway Design Engineer** responsible for roadway quantities and engineer's estimate in support of retaining wall design in support of the design of approximately nine miles of roadway and the interchanges with US 98 and Cardinal Road. The overall project was a new limited access highway to extend the Suncoast Parkway. Responsibilities included design, project coordination, administrative duties and quality control. This section included 10 bridges, two diamond interchanges and toll facilities. The complete design included plans for roadway, drainage, bridge, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. This work also involved managing a reevaluation for the entire 27-mile corridor and environmental permitting for the entire project.
12/12 - 06/13	**Hanley Road Study and Design, Hillsborough County, FL** **Roadway Engineer** for this high priority safety project to improve pedestrian, bicyclist, motorist and overall safety on Hanley Road, from Hillsborough Avenue to Waters Avenue. This project is approximately two miles in length. This corridor is classified as an Urban Collector. The existing features along this corridor include sidewalks, 19 transit bus stops, three schools, the Town and Country Greenway multi-use trail and two midblock pedestrian crossings. This was the first Hillsborough County project to implement sharrows and was awarded the APWA West Coast Branch Project of the Year for 2015.
01/15 - 01/20	**Lakeshore Road Sidewalk Study, Hillsborough County, FL** **Roadway Engineer** for this project that involved the evaluation and analysis for placing sidewalk on either the west side or east side of the corridor. Three alternatives were evaluated based on safety, cost, feasibility, drainage/permitting, environmental impacts, right-of-way impacts and utility impacts. A feasibility report was prepared to summarize the evaluation and make recommendations on the location of the sidewalk.
05/21 - 08/21	**Fort Island Trail, Citrus County, FL** **Roadway Engineer** responsible for roadway design review, cost analysis and presentation to the Citrus County Board. The limits of the proposed improvements and analysis extend from the West end of CR 44 (location of local boat ramp and corresponding parking area) to approximately one mile east along CR 44 in Crystal River, Citrus County. The Fort Island Trail Project was a task assignment to prepare an alternative cost analysis for the Board of County Commissioners. The project included typical section development, roadway design criteria, cost estimates and a PowerPoint presentation with graphics for different alternatives.

Bruno Arriola resume continued

05/22 - Ongoing	**Riviere Road Project Development Study, Pinellas County, FL** **Roadway Engineer** for the development of a Project Development Study (PDS). The purpose of the study is to provide build alternatives for transportation improvements such as pedestrian access, bicycle accommodations, safety improvements and drainage improvements along Riviere Road corridor from CR 752 (Tampa Road) to CR 776 (Nebraska Avenue/CR 584A). Findings and alternatives will be summarized on a report and provided to the County for consideration in the future design and construction of this project based on conditions including, but not limited to: right-of-way constraints, existing utilities, geotechnical considerations, floodplain impacts, long range planning conformity and environmental impacts.
06/21 - Ongoing	**PSTA Clearwater Multimodal Transit Center (MTC),CDM Smith for Pinellas County, FL** **Project Manager and Lead Roadway Engineer** for DRMP (sub-consultant to CDM Smith) for the development of a new multimodal facility in Downtown Clearwater that will replace the existing Clearwater Park Street Terminal that has long been overcrowded and needs significant repairs. The proposed Clearwater MTC project site is located in the block bounded by Court Street, Myrtle Avenue, South East Avenue and Franklin Street in Downtown Clearwater. The Clearwater MTC will provide space for a total of approximately sixteen bus bays with passenger platforms and accommodations for electric buses and electric charging infrastructure, space allocated for future potential light rail visions in the region, passenger waiting areas and public plaza space, bicycle and multimodal amenities (including drop-off areas for taxis and ride hailing services) and up to eight parking spaces for PSTA staff or emergency vehicles. LEED certifiable roofing and building principles are also anticipated, including but not limited to solar panels and/or green roofs and other sustainability elements. Tasks to be performed by DRMP include site-civil design, drainage and grading, drainage analysis, resiliency and sustainability research and support and utilities design.
08/20 - 01/24	**Main Street Sidewalk Improvements, City of Dunedin, Pinellas County, FL** **Project Manager and Roadway Engineer** for the coordination and design of sidewalk improvements along Main Street in Downtown Dunedin. This project includes the replacement of aging brick pavers and the widening of the existing sidewalk footprint within the project limits to provide more room for pedestrian traffic and outside dining for local restaurants, as well as providing accessibility (ADA) compliance by amending substandard longitudinal and cross slopes while providing positive drainage. This project also required close coordination with local business owners, the City of Dunedin and utility owners. Other disciplines involved in this project also included architectural landscaping, lighting and survey to ensure that design and aesthetics followed the overall downtown Dunedin look and feel.
04/21 - 12/23	**City of Treasure Island Connectivity Master Plan, City of Treasure Island, Pinellas County, FL** **Roadway Engineer** for the development of a Connectivity Master Plan that aims to improve way finding, safety and accessibility to local attractions through bicycle paths, pedestrian paths and waterways throughout the City of Treasure Island in Pinellas County. The selected sites and their corresponding information (conceptual design, cost estimates) under this Master Plan will serve for future incorporation into the City's Capital Improvement Plan (CIP) budget.
10/18 - 12/30	**Goodland Drive Rehabilitation Project, FDOT District One, Collier County, FL** **Roadway Engineer** for one mile of roadway improvements including raising of the roadway to reduce chronic flooding in a tidal estuary. His responsibilities include plans preparation, quantities and cost estimates. The pavement evaluation includes the use of full depth reclamation as an alternative. The project also included public meetings and agency permitting.
06/19 - 08/21	**Himes Avenue at Busch Boulevard and Waters Avenue Intersections Study, Johnson, Mirmiran & Thompson for Hillsborough County, FL** **Roadway Engineer** responsible for assisting in the preparation of a Preliminary Engineering Report/PDE for two major intersections of Himes Avenue in Hillsborough County. The two intersections on Himes Avenue include Busch Boulevard and Waters Avenue. The project included traffic counts, traffic analysis for proposed turn lane lengths, intersection safety, drainage impacts, utility impacts, right-of-way analysis, signal design and an alternatives recommendation. Major challenges include avoiding impacts to CSX railroad equipment and TECO poles, maximizing use of right-of-way and a contamination site at Waters Avenue.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Stephen Donegan, PE**			Years of Relevant Experience with this Employer	5
Title	Roadway Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS/2013/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#0060428/CO/10-31-2025		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway & Design			

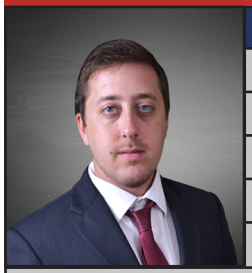
For these contracts, Stephen will focus on the comprehensive planning and design of roadway infrastructure to facilitate safe and efficient travel. Stephen is experienced in roadway design, pavement design, typical section packages, horizontal and vertical geometry, superelevation layout, guardrail calculations, maintenance of traffic plans, design variation and exceptions, roundabout design, limited access interchange design, and intersection design.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Roadway Engineer** responsible for plans production of roadway design for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only.
02/14 - 06/15	**SR 528 (Beachline) Widening from I-4 to Florida's Turnpike (MP 0-4.3), Florida's Turnpike Enterprise, Orange County, FL** **Roadway Engineer** responsible for plans production and preparation of design profiles and alignments for the $92.5 million project widening of 4.3 miles of SR 528 from a 4-lane to 8-lane limited access toll facility. Structural improvements included the widening of six bridges with Florida-I Beams, replacement of one bridge and the addition of two ramp bridges, cantilever and span structures, bridge mounted sign structures, mast arms, box culvert extension, noise walls and intelligent transportation system structures. Plans included design of toll gantry, roadway, drainage, signing and pavement markings, maintenance of traffic, structures, lighting, signals, intelligent transportation systems, environmental permitting and surveying.
12/02 - 07/06	**SR 528 (Beachline) Widening from I-4 to McCoy Road (MP 0-8.4), Florida's Turnpike Enterprise, Orange County, FL** **Roadway Engineer** for the structural improvements along this toll facility. This project involved the widening of an 8.4-mile segment of SR 528 from a 4-lane to a 6-lane section. Structural improvements included bridge widenings, bridge replacements and new bridges over roadways, waterways and CSX railways for a total of 14 bridge sites. All bridges utilized AASHTO concrete beams and deep foundation substructures.

Stephen Donegan resume continued

03/20 - Ongoing	**Reams Road Final Design, Orange County, FL** **Roadway Engineer** responsible design of a wildlife crossing and miscellaneous design plans production for this 3.26-mile reconstruction project from south of Ficquette Road to Taborfield Road. The project includes the design to reconstruct a 2-lane rural roadway to a 4-lane urban divided roadway. The project consists of widening, milling and resurfacing, stormwater treatment facilities, permitting, maintenance of traffic, utility coordination, signing and pavement marking, signalization, lighting, geotechnical services, contamination review, survey and development of right-of-way maps. The project also includes public involvement and coordination with Walt Disney World and Reedy Creek Improvement District for roadway improvements on Floridian Place and Center Drive and placement of stormwater treatment ponds. This project is currently in design.
08/07 - 11/18	**St. Johns Heritage Parkway Southern Project, Brevard County, FL** **Roadway Engineer** that supported plans production of a 2-lane divided suburban roadway that can be expanded to a future 4-lane/6-lane section. The original project was split into two sections, with the southern section from the Melbourne City limits to US 192, currently constructed. This project included 3.1 miles of new 2-lane roadway improvements and 0.3 miles of side street widening improvement along US 192. This project involved stormwater design, environmental permitting, intersection design, roadway design, bridge design, utility coordination, right-of-way mapping and pedestrian features. The drainage design provided for the future 6-lane widening of the Parkway in the design of the stormwater conveyance systems and the five retention/detention treatment facilities. A single span, 2-lane, 102-foot long bridge was designed for farm access and a concrete box culvert at Canal C-84 was also structurally designed. A new traffic signal was designed at the intersection of the St. Johns Heritage Parkway and US 192. The project involved intensive coordination with outside agencies including: FHWA, FDOT District Five, the City of Palm Bay, SJRWMD, USACE, FWC, USFWS, FDEP and the Melbourne-Tillman Water Control District. Also served as the Project Manager for the Post Design activities for this project.
08/07 - 11/18	**St. Johns Heritage Parkway Northern Project, Brevard County Public Works, Brevard County, FL** **Roadway Engineer** supporting plans production of this 4-lane divided suburban roadway that can be expanded to a future 6-lane section. The original project was split into 2 sections, with the Northern section, from US 192 to where it ties into FDOT's SJHP project, being scheduled later for construction. This project included one mile of new 4-lane roadway improvements and 0.3 miles of side-street turn lane widening improvements along US 192. This project involved stormwater design, environmental permitting, intersection design, roadway design, utility coordination, right-of-way mapping and pedestrian features. The drainage design provides for the future 6-lane widening of the Parkway in the design of the stormwater conveyance systems and the three retention/detention treatment facilities. The project also included the design of a 59.4-acre joint use floodplain compensation pond. Future traffic signal modifications were also designed for the turn lane additions at the intersection of St. Johns Heritage Parkway and US 192. The project involved intensive coordination with outside agencies including; FHWA, FDOT District Five, SJRWMD, USACE, FFWCC, USFWS, FDEP and the Melbourne-Tillman Water Control District.
05/07 - 12/12	**SR 589 (Veterans Expressway) Widening (MP 2.7-5.4), AECOM for Florida's Turnpike Enterprise, Hillsborough County, FL** **Roadway Engineer** supporting roadway design and plans production which involved widening a 2.5-mile stretch of limited access all electronic toll facility with express lanes from a 4-lane to an 8-lane section from Memorial Highway to north of Barry Road. Structural engineering components included Bridge Development Report to determine if the existing structures were able to be widened, structural design and plans production for the widening of two bridge sites (a 2-span continuous steel plate girder bridge and a 3-span AASHTO beam bridge using the Florida-I Beam). The substructure components of the bridge are founded on 18-inch PPC piles at the end bents and the piers. The project also included complex maintenance of traffic plans, FAA coordination, the analysis of existing overhead sign span trusses, an existing monotube analysis, proposed cantilever signs, proposed span signs, bridge mounted signs, box culvert extensions and numerous MSE and sheet pile wall designs.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Steven D'Uva, PE**			Years of Relevant Experience with this Employer	10
Title	Roadway Engineer			Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization			BS/2010/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#85365/FL/2-28-2025		
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway & Hydraulics			

For these contracts, Steven will focus on the integrated planning and design of roadway and hydraulic infrastructure to ensure the safe and efficient movement of vehicles and water. Steven will coordinate the development of roadway layouts, geometrics, and drainage systems to accommodate varying terrain and weather conditions. Steve's responsibilities include plans production and design calculations for roadway design projects, including limited access and resurfacing projects for Florida's Turnpike Enterprise, Central Florida Expressway Authority, Orange and Brevard counties, and FDOT Districts One, Four, Five, and Seven. He is proficient in MicroStation, OpenRoads, GEOPAK, and AutoCAD.

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).
06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Roadway Engineer** responsible for the plans production of roadway design for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Roadway Engineer** for the design of approximately nine miles of roadway and the interchanges along US 98 and Cardinal Road. The overall project was a new limited access all-electronic toll facility to extend the Suncoast Parkway. Responsibilities included design, project coordination and quality control. This section included ten bridges, two diamond interchanges and toll facilities. The complete design included plans for roadway, drainage, bridge, intelligent transportation systems, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. This work also involved managing a re-evaluation for the entire 27-mile corridor and environmental permitting for the entire project.

Steven D'Uva resume continued

11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **Engineer of Record** responsible for horizontal and vertical geometry for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics and geotechnical services.
02/14 - 06/15	**SR 528 (Beachline) Widening from I-4 to Florida's Turnpike (MP 0-4.3), Florida's Turnpike Enterprise, Orange County, FL** **Roadway Engineer** responsible for plans production and preparation of design profiles and alignments for widening 4.3 miles of SR 528 from a 4-lane to 8-lane limited access toll facility with two inside express toll lanes separated by a 4-foot buffer with delineators in each direction. Plans included roadway, drainage, bridge widenings with Florida-I Beams (three sites), replacement bridges (one site), new ramp bridges (two sites), toll gantry, signing and pavement markings, maintenance of traffic, lighting, signals, intelligent transportation systems, environmental permitting and surveying.
04/15 - 03/16	**SR 528 (Beachline) Widening from Florida's Turnpike to McCoy Road (MP 4.3-8.4), Florida's Turnpike Enterprise, Orange County, FL** **Roadway Engineer** for the widening into the median of four miles from 6-lanes to 8-lanes by adding one express lane in each direction separated by a 2-foot buffer with delineators. Plans included roadway, drainage, bridge widenings (Florida's Turnpike, US 441 and Landstreet Road), modifications to the existing toll gantry/cash toll plaza, signing and pavement markings, maintenance of traffic, lighting, intelligent transportation systems, environmental permitting and surveying.
08/07 - 11/18	**St. Johns Heritage Parkway Southern Project, Brevard County Public Works, Brevard County, FL** **Roadway Engineer** that was responsible for the design of a 2-lane divided suburban roadway that can be expanded to a future 4/6-lane section. The original project was split into two sections, with the southern section from the Melbourne City limits to US 192, being schedule first for construction. This project included 3.1 miles of new 2-lane roadway improvements and 0.3 miles of side street widening improvement along US 192. This project involved stormwater design, environmental permitting, intersection design, roadway design, bridge design, utility coordination, right-of-way mapping and pedestrian features. The drainage design provided for the future 6-lane widening of the Parkway in the design of the stormwater conveyance systems and the five retention/detention treatment facilities. A single span, 2-lane, 102-foot long bridge was designed for farm access and a concrete box culvert at Canal C-84 was also structurally designed. A new traffic signal was designed at the intersection of the St. Johns Heritage Parkway and US 192. The project involved intensive coordination with outside agencies including: FHWA, FDOT District Five, The City of Palm Bay, SJRWMD, USACE, FFWCC, USFWS, FDEP and the Melbourne-Tillman Water Control District.
08/07 - 11/18	**St. Johns Heritage Parkway Northern Project, Brevard County Public Works, Brevard County, FL** **Roadway Engineer** responsible for the design of a 4-lane divided suburban roadway that can be expanded to a future 6-lane section. The original project was split into two sections, with the northern section, from US 192 to where it ties into FDOT's SJHP project, being scheduled later for construction. This project includes one mile of new 4-lane roadway improvements and 0.3 miles of side-street turn lane widening improvements along US 192. This project involved stormwater design, environmental permitting, intersection design, roadway design, utility coordination, right-of-way mapping and pedestrian features. The drainage design provides for the future 6-lane widening of the Parkway in the design of the stormwater conveyance systems and the three retention/detention treatment facilities. The project also includes the design of a 59.4-acre joint use floodplain compensation pond. Future traffic signal modifications were also designed for the turn lane additions at the intersection of St. Johns Heritage Parkway and US 192. The project involved intensive coordination with outside agencies including: FHWA, FDOT District Five, SJRWMD, USACE, FFWCC, USFWS, FDEP and the Melbourne-Tillman Water Control District.

STAFF EXPERIENCE:

Group 4 - Bridge & Structural Design Team

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Andrew Windmann, PE**			Years of Relevant Experience with this Employer	1
Title	Senior Bridge Design Engineer			Years of Relevant Experience with Other(s) Employers	14
Degree(s)/Years/Specialization			BS/2010/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#39042/LA/09-30-2024		
Year Registered	2014	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Bridge Preservation/Rehabilitation/Replacements | **Meets MPR 11**			

Andrew will oversee the planning and execution of strategies to maintain, rehabilitate, or replace bridges within the transportation network, ensuring compliance with regulatory standards and project objectives. Andrew will coordinate with engineering teams to assess bridge conditions, prioritize projects, and develop cost-effective solutions that ensure the safety and longevity of bridge infrastructure. Andrew's responsibilities will include performing bridge and structural inspections and evaluations of existing bridges and structures, providing bridge and structural analysis and design, and developing as-designed, as-built, and condition bridge ratings. He will implement preservation techniques to extend the lifespan of existing bridges while overseeing the design and construction of new bridge replacements.

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).
03/13 - 12/19 SECTION 17 PROJECT	**I-10: I-49 E. Junction to LA 328 Widening Project, Lafayette, LA (H.003003)** **Lead Bridge Design Engineer.** Andrew served as the lead bridge design engineer on this project that included the widening or full replacement of 12 bridge structures (six unique sites) along the I-10 mainline. The scope of this project included the initial assessment of each bridge to provide recommendation on widening versus replacement, while factoring in current condition, load-carrying capacity, and feasibility of construction. During Stage 3 of the project, Andrew led the structural team, ensuring the design of every component and detailing of over 300 plan sheets were performed with great quality following LADOTD's QC/QA plan. Structural components included concrete slab span bridges and decks, skewed PPC girder superstructures (AASHTO and LG girders), pile-supported bent caps, column bents supported on pile footings and drilled shafts. Andrew also provided construction-related engineering services throughout the 3.5-year construction time frame. Services included fabrication drawing review, responding to contractor RFIs and contractor proposals, as well as reviewing required contract submittals. **This project included complex urban highway design as required in MPR 11.**
03/13 - 12/19 SECTION 17 PROJECT	**I-10: LA 347 to Atchafalaya Floodway. Widening Project, St. Martin, LA (H.003014)** **Lead Bridge Design Engineer.** Andrew served as the lead bridge design engineer on this project that included the rehabilitation and widening of six bridge structures (three unique sites) along the I-10 mainline. The scope of this project included the initial assessment of each bridge to provide recommendation on widening versus replacement, while factoring in current condition, load carrying capacity, and feasibility of construction. During Stage 3 of the project, Andrew led the structural team, ensuring the design of every component and detailing of over 120 plan sheets were performed with great quality following LADOTD's QC/QA plan. Structural components included concrete decks, skewed PPC girder superstructures (AASHTO-girders), pile supported bent caps, column bents supported on pile footings, and drilled shafts. Andrew also provided construction-related engineering services throughout the 3.5-year construction time-frame. Services included fabrication drawing review, responding to contractor RFIs, and contractor proposals, as well as reviewing required contract submittals. **This project included complex urban highway design as required in MPR 11.**

Andrew Windmann resume continued

08/16 - 08/22 SECTION 17 PROJECT	**I-10: LA 328 to LA 347 Widening Project, St. Martin, LA (H.010601)** **Lead Bridge Design Engineer.** Andrew served as the lead bridge design engineer on this project that included the replacement of two existing mainline bridges over an abandoned railroad and local road with at-grade I-10 roadway and a singular new bridge allowing the local road to overpass the interstate. The scope of this project included the design and detailing of every component while committing to great quality. Initial work on this project included the structure layout (type, size, and location) of the new overpass structure to ensure adequate horizontal and vertical clearance were provided. Structural components included concrete deck, skewed LG-girder superstructures pile-supported bent caps, column bents supported on pile footings, and columns supported on drilled shafts. Andrew also provided construction-related engineering services throughout the three-year construction time-frame. Services included fabrication drawing review, responding to contractor Requests for Information and contract proposals, as well as reviewing required contract submittals.
2012 - 2016	**I-12: Northshore/Airport Rd. – US 11, St. Tammany, LA (H.009185) 2012-2016** **Designer.** Andrew served as a designer on this project that included the widening of parallel Interstate bridges over a local road and abandoned railroad line. The existing structures were comprised of AASHTO Type III PPC girder spans supported on reinforced concrete column bents and founded on pile-supported footings. The new, widened portions matched these components type using current material properties and design requirements. Sequence of construction was a major consideration in the design to facilitate the continued allowance of 2 lanes of traffic at all times. Andrew also provided construction-related engineering services throughout construction which included responding to contractor RFIs and contractor proposals, as well as reviewing required contractor submittals (i.e. working/fabrication drawings and proposals).
05/10 - 10/23	**LADOTD Bridge Design Section** **Engineer Intern to Assistant Bridge Design Administrator** Prior to joining Waggoner (formerly Sigma), Andrew worked in the Bridge Design section at LADOTD for 13.5 years. Andrew gained a breadth and depth of organizational, procedural, and state-specific knowledge of LADOTD's design requirements, including internal policies, preferences, and intimate knowledge of the current standard plans. Part of his time working in the Bridge section, Andrew served as a manager in the Bridge Manual, Specifications, and Standards sub-unit, where he oversaw the development of the slab-span standard plans, LG-girder standard plans, among others. Immediately prior to joining Waggoner, Andrew served as the state-wide Bridge Preservation program manager whose responsibility it was to understand the overall health of the over 7000-bridge inventory as well as program bridge replacement, rehabilitation, and repair projects over a rolling eight-year program to spend an annual budget of $240 million. He has a unique understanding of the Department's need for practical design and getting the most efficient bridge replacements completed to get the most use of the insufficient funds received for bridge preservation across the state. While working for LADOTD, Andrew served as the Department's Bridge Design task manager on several high-profile and critical projects where he was responsible for ensuring the design consultant was providing safe, complete, and constructable structural plans and supporting calculations. Having involvement with these projects exposed him to a wide range of structure types, site considerations/constraints, project hurdles from multiple perspectives (outside stakeholder interests, financial implications, and design/construction concerns), and overall understanding of the magnitude of effort needed from the entire project team to successfully manage/deliver these large projects. Some of these projects are shown below: • **H.004100 – LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge, LA** • **H.013284 – MRB South GBR: LA 1 to LA 30 Connector (PEL), East Baton Rouge and West Baton Rouge, LA** • **H.011137 – I-12: LA 1077 to LA 21, St. Tammany, LA** • **H.013866 – I-12: LA 21 to US 190, St. Tammany, LA** • **H.011152 – I-12: US 190 to LA 59, St. Tammany, LA** • **H.005967 – Nelson Rd. Extension and Bridge, Calcasieu, LA** • **H.005121 – LA 1/LA 415 Connector Stage 0/1, West Baton Rouge, LA**

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Joshua Gonya, PE**			Years of Relevant Experience with this Employer	1
Title	Senior Bridge Design Engineer			Years of Relevant Experience with Other(s) Employers	15
Degree(s)/Years/Specialization			BS/2008/Civil Engineering & Structures		
Active Registration Number/State/Expiration Date			PE#40859/LA/09-30-2024 | PE#11700606/IN/07-31-2024		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Bridge Evaluations/Inspection/Load Rating | **Meets MPR 11**		

For these contracts, Joshua will lead the assessment and monitoring of bridge structures, focusing on bridge evaluations, inspections, and load ratings. He will coordinate inspection teams to evaluate bridge conditions, conduct load ratings, and ensure compliance with safety standards and regulatory requirements. By implementing rigorous evaluation protocols, Joshua will identify maintenance needs and prioritize repair or replacement projects to ensure the integrity and safety of the transportation network's bridge infrastructure. Joshua's responsibilities include performing bridge and structural inspections and evaluations of existing bridges and structures, providing bridge and structural analysis and design, and developing as-designed, as-built, and condition bridge ratings.

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).
09/13 - 08/17	**Load Rating and Posting of On-System Bridges, LADOTD, Statewide, LA** **Lead Load Rating Engineer.** Joshua was the lead load rating engineer for this project. He was responsible for developing LRFR load rating procedures using AASHTOware BrR for superstructures, and LEAP RC Pier for substructures while working closing with LADOTD personnel. All structures were rated per AASHTO MBE utilizing LADOTD guidelines. Procedures were coordinated with LADOTD to assist in the further refinement of LADOTD BDEM Volume 5 Chapter 6 on load ratings. This project covered a wide variety of bridge superstructure types including: timber, reinforced concrete girders and slabs, prestressed concrete girders, steel trusses, steel plate girders, and steel rolled beams as well as various substructure types.
05/14 - 05/15	**Essen Lane over Wards Creek Bridge Widening, LADOTD, Baton Rouge, LA** **Bridge Design Engineer.** Joshua was responsible for initial bridge evaluations and widening of the existing Essen Lane bridge over Wards creek. This project involved utility relocations, extending and matching existing substructures, extending, and matching existing slab span bridge elements. The bridge was evaluated in all temporary structural layouts with temporary traffic conditions. **This project included complex urban highway design as required in MPR 11.**
05/16 - 12/16	**US 82 over Mississippi River In-Depth Bridge Inspection and Load Rating, MDOT, Greenville, MS** **Field Team Leader and Load Rater.** Joshua served as a field team leader and load rater for the in-depth inspection, fracture critical, and element level inspection of the US 82 over the Mississippi river bridge. This project consisted of collecting field data utilizing National Bridge Elements, fracture critical elements, and in-depth hands-on SPRAT access inspectors of 112 stay cables. The findings were used to develop an overall bridge report and load rating.
05/18 - 05/20	**Worthsville Road over Tracy Ditch Bridge Replacement - Greenwood, Greenwood, IN** **Project Manager and Lead Designer.** Joshua was the project manager and lead designer. He completed the design of a 72'-6" single-span, Hybrid Bulb-Tee Beam bridge to replace the existing three-sided culvert over Tracy Ditch. Bridge Hydraulic design was completed to size the bridge and provide Q100 roadway serviceability. The bridge was designed to accommodate phased construction so that one lane of traffic could be maintained in each direction during construction. The end bents and bridge piling were spaced and designed to span an existing sanitary force main that could not be relocated. The bridge cross section includes four travel lanes, striped median, two raised sidewalks, and bridge railing.

Joshua Gonya resume continued

05/19 - 08/20	**SR 15 over Eagle Creek Bridge Replacement, Kosciusko County, INDOT, Kosciusko County, IN** **Project Manager and Lead Designer.** Joshua was the project manager and lead designer. He completed the design of a custom three-span slab superstructure supported by integral end bents and interior open pile bents found on steel shell piles. Hydraulic design and site visits concluded that drift and debris are a major factor for Eagle creek and the open pile bents were used in order to minimize the amount of drift present at the structure. The bridge was designed to accommodate phased construction so that one lane of heavy truck traffic could be maintained at all times during construction. This bridge was in an urban area and required a large effort for utility coordination and local business coordination.
08/18 - 07/19	**SR 3 over Willow Creek Rehabilitation, INDOT, Allen County, IN** **Project Manager.** Joshua was the project manager and was responsible for the inspection, assessment, and rehabilitation recommendations of this project. After infield condition assessments he recommended that the project consist of fiber wrapping substructure elements, patching, overlaying the bridge deck, adding channel protection, and traffic management plans.
08/18 - 07/19	**SR 101 over Hamm Ditch Rehabilitation, INDOT, Allen County, IN** **Project Manager.** Joshua was the project manager and he was responsible for the inspection, assessment, and rehabilitation recommendations of this project. After in field condition assessments he recommended that the project consist of deck and coping replacement, patching of the super and sub structures, railing replacement, approach slab replacement, and reconstruction of the roadway to provide a smooth transition over the limits of the project.
08/17 - 09/22	**Central Office Load Rating Contract, INDOT, Statewide, IN** **Project Manager and Lead Load Rating Designer.** Joshua oversaw the rating of 300+ bridges throughout the state of Indiana. Some notable ratings include curved post-tensioned segmental, curved steel continuous girder, cold bent steel boxes, steel trusses, precast arches underfill, steel beam bridges, slab spans, and typical continuous prestressed beam bridges. Joshua also provided support in the rating of many steel bridges inaccurately not rating, specifically assisting with the issue of Lateral Torsional Buckling in the negative moment region for a steel girder bridge. These ratings included new design ratings and added deterioration ratings as well as specific investigations and overrides of the preferred rating software (AASHTOware BrR).

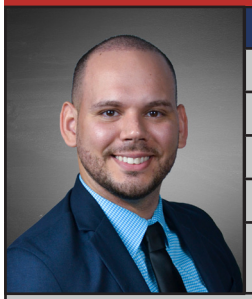
16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Joshua Olivier, PE**			Years of Relevant Experience with this Employer	6
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2017/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#46498/LA/09-30-2024		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design - Analysis and Plan Preparation			

For these contracts, Joshua will serve as a bridge analysis and plan preparation designer, conducting thorough structural analysis and developing detailed plans for bridge construction or rehabilitation. He will use advanced engineering software and methodologies to ensure the integrity and safety of bridge designs. By considering factors such as traffic loads, environmental conditions, and regulatory requirements, he will create comprehensive plans that meet project objectives while adhering to industry standards. Joshua is an engineer with a focus on bridge and structural design. He received his Bachelor of Science degree in civil engineering from Louisiana State University with a minor in structural engineering and is a member of the American Society of Civil Engineers. He has experience with transportation-related projects, including highway design, bridge design, geometric design, and design studies. Joshua is trained in AutoCAD, Civil 3D, and LEAP Bridge Concrete, which he uses for plan preparation and bridge design.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/18 - 10/18	**I-10 Widening, LA30 - LA22, Ascension Parish, LA (H.009276)** **Project Engineer.** This project involves the widening of a five mile segment of I-10, including two girder bridge structures and one slab span structure as well as the replacement of the LA 941 bridge structure. Joshua was responsible for checking the longitudinal reinforcing design of the slab span bridge as well as the reinforcement of the new LA 941 bridge. He was also responsible for a preliminary bridge quantity estimate for the LA 941 overpass. All design was performed with the AASHTO LRFD guidelines and LADOTD's Bridge Design and Evaluation Manual.
01/28 - Ongoing	**I-220/I-20 Interchange Improvements and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Project Engineer.** The project consists of constructing a new four-lane rural arterial extending from the existing I-220 terminus north of I-20 southward to a terminus within Barksdale Air Force Base. This includes an elevated section which will cross the Kansas City Southern Railway (KCS RR). Joshua was responsible for checking the cross sections and the drainage design of the project area.
01/18 – 05/20 SECTION 17 PROJECT	**I-10 Corridor Improvements (LA 415 to Essen Lane) Environmental Assessment, West and East Baton Rouge Parish, LA (H.004100)** **Project Engineer.** Joshua assisted in the development of the proposed vertical profiles for the Perkins Drive through Acadian Throughway section of the corridor. He was responsible for the identification of critical points of clearance along this region and the corresponding impacts to the design Profile Grade Line. He was also responsible for developing construction sequencing for the removal of the straddle bent over the Kansas City Rail Road overpass.
06/19 - Ongoing	**Belle Chasse Bridge and Tunnel Replacement, Plaquemines/Jefferson Parish, LA (H.004791)** **Project Engineer.** This project consists of constructing a new bridge crossing the Intracoastal Waterway to replace the existing tunnel and vertical lift bridge. Joshua created the existing and design drainage maps, checked calculations for open ditch and subsurface drainage systems, and calculated roadway stormwater spread impacts. He also reviewed and recommended shop drawings for approval for proposed drainage structures such as inlets, catch basins, and manholes during construction.
09/15 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** **Project Engineer.** This new interchange will be constructed on future I-49 at Ambassador Caffery Parkway interchange in Lafayette, LA. Joshua was responsible for checking the final drainage design for the six major cross drains proposed in the project. Joshua was also responsible for checking column quantities for the bridge plans.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Leo Rodriguez, PE**			Years of Relevant Experience with this Employer	4
Title	Area Structures Group Leader			Years of Relevant Experience with Other(s) Employers	12
Degree(s)/Years/Specialization			BS/2008/Civil Engineering | MS/2012/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#0044201/LA/9-30-2024 | PE#78493/FL/2-28-2025		
Year Registered	LA - 2015 FL - 2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design/Toll Facilities/Moveable Bridge Rehabilitation			

Leo has experience with the replacement, widening and rehabilitation of fixed and movable bridges, design of new tolling facilities and building structures, and design of miscellaneous structures including sheet pile walls in coastal environments. He is responsible for planning, developing, quality control and delivery of studies, designs, plans, specifications and estimates for design build, conventional and complex transportation projects. Additionally, he has provided inspections and construction support services. For these contracts, Leo will focus on designing bridges that integrate toll facilities and accommodate moveable components. He will employ advanced engineering techniques to ensure structural integrity, traffic management efficiency, and tolling system integration. Additionally, he will oversee the rehabilitation of moveable bridges, coordinating with multidisciplinary teams to enhance functionality while adhering to regulatory standards and project specifications. Through meticulous planning and innovative designs, Leo will contribute to the development of safe and efficient transportation infrastructure.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Structures Engineer** for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
01/19 - 12/22	**SR 31 PD&E Study, FDOT District One, Lee County, FL** **Structures Engineer** for this PD&E study to consider the widening of SR 31 and replacement of the Wilson Pigott Bridge over the Caloosahatchee River from SR 80 to SR 78 in Lee County. Alternatives are being evaluated to determine the best option to meet the purpose of the project while avoiding and minimizing impacts to the Florida Gas Transmission line, Sweetwater Marina and natural resources. Responsible for overseeing the preparation of the Natural Resources Evaluation report and Essential Fish Habitat Assessment in accordance with FDOT/FHWA standards to ensure NEPA approval and that the project moves forward successfully through design and permitting.

Leo Rodriguez resume continued

06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Structures Engineer** for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
09/22 - Ongoing	**I-275 at I-4 Interchange Improvements Design-Build, The Lane Construction Corporation for FDOT District Seven, Hillsborough County, FL** **Structures Engineer** for this interchange improvements project, which includes the design and construction of six new bridges, eight bridge widenings/modifications, four existing bridge coatings, and two existing bridge railing retrofits; widening the existing roadway from 2-lanes to 3-lanes in specific segments; improving existing drainage facilities, and providing complex temporary traffic control plans throughout each phase of the project to minimize disruption for all users. The design-build team's innovative alternative technical concept includes an innovative new dual-lane flyover bridge to accommodate the I-275 southbound traffic onto I-4 eastbound without needing a complex widening. This eliminates over 100 detours by performing off-line construction and provides FDOT with the opportunity to add a new I-4 eastbound auxiliary lane to the Selmon Expressway exit just east of the downtown interchange. Other project design elements include permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, and geotechnical.
06/18 - 05/21	**SR 50 Widening, FDOT Districts Five and Seven, Hernando and Sumter Counties, FL** **Structures Engineer** for this project that involves widening eight miles of SR 50 from 2-lanes to 4-lanes from east of US 301 to east of CR 757. The project extends through the Withlacoochee State Forest and involves extensive environmental coordination with US Fish and Wildlife Service, Southwest Florida Water Management District, US Forestry Service, Acquisition and Restoration Council, two FDOT Districts and local agencies. The river crossing is composed of five spans of AASHTO Type II Beams founded on driven concrete plies to match the configuration of the existing river crossing which will remain in place. The CSX bridges eliminate an existing at-grade rail crossing and will span the full railroad right-of-way with single spans of Florida-I 63 Beams on driven concrete piles with retaining walls at the bridge ends. This project required coordination with CSX and a local mining operation. This project also includes drainage, signing and pavement marking, maintenance of traffic, environmental permitting, right-of-way mapping and public involvement.
06/16 - 12/21	**SR 91 (Florida's Turnpike Mainline) Widening from Minneola Interchange to Obrien Road (MP 279.2-285.8), Stantec, Inc. for Florida's Turnpike Enterprise, Lake County, FL** **Structures Engineer** for the widening of SR 91 from a 4-lane to 8-lane limited access facility. DRMP tasks included public meeting and local agency coordination, design of roadway, structural and Intelligent Transportation Systems (ITS) along with survey and right-of-way mapping. This is the first Florida's Turnpike Enterprise project to hold a Virtual Public Meeting which included a live presentation along with the development of a dedicated project website with exhibits for the project. Extensive coordination with local agencies included presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. Roadway design was completed for three ramps at the US 27 South Interchange with the mainline. Structural design was completed for the Exit 285 ramp bridge over the mainline. The bridge crosses the Turnpike with two spans of Florida-I 45 beams founded on 24-inch pipe piles. Extensive use of temporary walls and phased bridge construction is used to facilitate traffic control. ITS design addressed all impacts to the existing ITS fiber and CCTV/MVDS/AVI/DMS devices within the project limits. Survey for off pavement areas and right-of-way mapping was completed for the entire project limits. This project is currently in construction.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Alex Urchuk, PE**			Years of Relevant Experience with this Employer	1
Title	Structures Chief Engineer			Years of Relevant Experience with Other(s) Employers	37
Degree(s)/Years/Specialization			BS/1987/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#24236/LA/09-30-2024 | PE#51849/FL/02-28-2025		
Year Registered	LA - 2018 FL - 1997	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design - QA/QC			

Alex's responsibilities include providing quality control and quality assurance, project management, providing technical support for both design and pursuit efforts in the traditional design-bid-build and alternative delivery projects. His is experienced in the design, construction, maintenance and inspection of concrete, steel and timber bridges, along with miscellaneous sign and signal structures. His background includes conceptual plan analysis, feasibility studies, constructibility reviews, permitting, value engineering, problem-solving and quality control/quality assurance. He has worked on transportation projects for state and local agencies along with state and national parks across the country. For these contracts, Alex will ensure quality and accuracy of bridge designs though rigorous quality assurance and quality control measures. He will review design plans, calculations, and specifications to verify compliance with engineering standards and regulatory requirements. By conducting thorough inspections and audits, Alex will identify potential issues and implement corrective actions to uphold the integrity and safety of bridge infrastructure.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Chief Engineer** responsible for post-design technical support for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **Chief Engineer** responsible for constructability review of project retaining walls for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics and geotechnical services.

Alex Urchuk resume continued

08/20 - Ongoing	**SR 408/Tampa Avenue Interchange (Contract#408-315), TLP Engineering for Central Florida Expressway Authority, Orange County, FL** **Chief Engineer** responsible for quality control of two overhead toll gantry structures for the SR 408/Tampa Avenue interchange modification and widening of eastbound SR 408 from John Young Parkway to Orange Blossom Trail to 4-lanes. DRMP was responsible for the design of a new westbound ramp bridge over Rio Grande Avenue using Florida-U Beams, the widening of eastbound SR 408 over Rio Grande Avenue using Florida-I Beams, and the associated walls. The intelligent transportation system (ITS) design and plans consisted of a new gigabit fiber network with supporting ITS devices. All Electronic Toll ramp toll site design was completed along SR 408 for two interchange ramps (westbound off-ramp to Tampa Avenue and eastbound on-ramp from Tampa Avenue. Surveying services included design survey, right-of-way mapping and subsurface utility engineering. The design survey was performed using a combination of Mobile LiDAR, GPS, and conventional survey methods.
12/21 - Ongoing SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from CR 486 to CR 495 (MP 70.3 - 75.5), WBQ Design & Engineering, Inc. for Florida's Turnpike Enterprise, Citrus County, FL** **Chief Engineer** responsible for quality assurance of Typical Section Package and Bridge Development Reports for four bridge sites along this new 4-lane limited access all electronic toll facility. Two sites consist of parallel northbound and southbound mainline bridges over CR 486 and North Reynolds Avenue, and two sites consist of 2-span overpass structures over SR 589 with aesthetic piers. All bridges are comprised of Florida-I Beams founded on 24-inch diameter steel pipe piles. All sites include the design of MSE retaining walls. Plans included the design of roadway, drainage, signing and pavement markings, structures, lighting, signals, intelligent transportation systems, environmental permitting and surveying.
06/11 - Ongoing	**I-95 (SR 9) Widening, URS Corporation for FDOT District Two, St. Johns County, FL** **Chief Engineer** responsible for quality control of Concept Plan Package for 2 bridge widenings and 1 replacement structure for this project that involves the widening of two bridge sites with twin bridges and a new overpass bridge along I-95. The existing structures to be widened include flat slab bridges and AASHTO girder bridges. The proposed bridge will consist of Florida-I Beams. In addition to the bridges, there are thirteen box culvert extensions, noise walls, MSE wall extensions, bridge mounted signs, high mast lighting, cantilever signs and span overhead signs. The project is now preparing concept plans for a Design-Build package.
02/23 - Ongoing	**SR 20 over Econfina Bridge Replacement Project, FDOT District Three, Bay County, FL** **Chief Engineer and Engineer of Record** responsible for two bridge replacements to replace two structures, Bridge (No. 460037) on SR 20 over Econfina Creek and Bridge Culvert Relief Structure (No. 460034) in Bay County, Florida. The bridges are structurally deficient because they have been overtopped during heavy rainfall events. The reconstruction will involve raising the elevation of the roadway approaches to prevent future overtopping during similar events. The road includes two 12-foot travel lanes with 12-foot lawn shoulders, five feet of which is paved. The existing bridge has two 12-foot travel lanes, 10-foot shoulders, and a concrete handrail barrier. The new bridge will maintain the same capacity (2 lanes) with appropriate shoulders and a wildlife crossing will be accommodated at the Econfina Creek Bridge. The project will consider the use of Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS) technology for a single span superstructure. Services include signing and pavement design, drainage, survey and mapping, photogrammetry, geotechnical and 3D modeling.
03/20 - Ongoing	**SR 8 over SR 10 (US 90A) Nine Mile Road (Bridge#480061) FDOT District Three, Escambia County, FL** **Chief Engineer** responsible for quality control and constructability reviews for the replacement of the twin bridges at SR 8 (I-10) over SR 10 (Nine Mile Road). The bridges were programmed for replacement due to structural deficiency and insufficient vertical clearance. The recommended replacement bridges consist of two-span at 170'-6" each with an overall bridge length of 341'-0" and configured to accommodate the interim SR 10 suburban typical section and the future diversion diamond interchange. The bridge construction will proceed with a three-phase approach, with the middle portion being removed and replaced. Westbound traffic will be placed on the newly constructed middle portion while the westbound bridge is removed and replaced. The last phase is a mirror of the second phase. The phased construction is facilitated by temporary critical walls strategically placed to avoid utilities. The design is currently ongoing and has required extensive coordination with two Design-Build projects on an ongoing PD&E project.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Mike McNeese**			Years of Relevant Experience with this Employer	1
Title	NBIS Leader			Years of Relevant Experience with Other(s) Employers	28
Degree(s)/Years/Specialization			N/A		
Active Registration Number/State/Expiration Date			N/A		
Year Registered	N/A	Discipline	CE&I/OV		
Contract Role(s)/Brief Description of Responsibilities		Bridge Inspection/Bridge Maintenance/Structures Management			

Mike is experienced in bridge maintenance, bridge inspection and structures management. He is experienced in performing services as a Bridge Worker, Bridge Inspector and Bridge Special Inspection Supervisor. He has a wide range of Bridge Maintenance experience working on structures across all NCDOT Divisions. For the next two years it will be solely contract bridge inspections for the state of North Carolina. Managing monthly inspections, scheduling, checking assignments, and processing paperwork each month. For these contracts, Mike will oversee the regular inspection and maintenance of bridge conditions, identify necessary repairs, and implement maintenance strategies. Additionally, he will manage structural data and prioritize projects to effectively allocate resources and address critical needs, ensuring the continued reliability and performance of the transportation network.

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).
10/07 - Ongoing	**NCDOT Structures Management-Raleigh** **Bridge Special Inspection Supervisor** in the Special Inspections Department. Mike was responsible for supervision, directing, scheduling and reviewing the work of three two-man Special Bridge Inspection Teams statewide. This included safety inspections on draw bridge components and machinery and structural inspections of all movable bridges in the state. This also included trusses, hanger pins, and straps. Safety inspections along with ultrasonic testing of fracture critical bridge elements. Impact damage from vehicular or boat traffic, safety inspections of high mast lights, overhead signs and deck evaluations.
01/03 - 10/07	**NCDOT Bridge Maintenance-Raleigh** **Bridge Maintenance Inspector II Team Lead.** Mike was responsible for in-depth safety inspection of machinery draw bridges, truss bridges, high mast light standards, overhead signs, deck evaluations, Ultrasonics Level I and II. He provided written documentation of structures along with sketches, detailed drawings, photos, and measurements to determine appraisal grades to structures and problem areas. He incorporated these findings into the WIGINS (State computer program) system. He coordinated inspections involving special equipment. He would also contact division bridge maintenance personnel for traffic control, troubleshoot activities and plan and schedule inspections all over the state of North Carolina.
08/01 - 01/03	**NCDOT Bridge Inspection-Raleigh:** **Bridge Inspector I.** Mike's duties included assisting team leader in the in-depth safety inspection of bridges, culverts, pipes, sign supports, and overhead walkways. Responsible for evaluation and reporting structure conditions with documentation, condition, grades, sketches, and photos. He was also responsible for determining damaged or problem areas and taking appropriate actions.
04/96 - 08/01	**NCDOT Bridge Maintenance-Siler City** **Bridge Worker.** Mike was responsible for annual inspections of bridge structures and maintenance performed. He was also responsible for locating pipes and structures, documentation, locate, structures, photos, and evaluations. Duties included Operation of crane truck with man basket; county bridge equipment operator including excavator, crane truck, backhoe, and loaders. Other duties included lay out bridges and calculate grade using transit and levels, concrete finishing and in-depth structure determinations and repairs.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Derek Stonebraker, PE**			Years of Relevant Experience with this Employer	14
Title	Utah Transportation Operations Director			Years of Relevant Experience with Other(s) Employers	3
Degree(s)/Years/Specialization			MS/2008/Structural Engineering | BS/2007/Architectural Engineering		
Active Registration Number/State/Expiration Date			PE#8041451/UT/3-31-2025 | PE#023633/NV/6-30-2026		
Year Registered	2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design - Accelerated Bridge Construction Specialist			

Derek is the Program Management Lead for Horrocks, specializing in preliminary design, procurement, pre-construction design, and construction management for projects using Design-Bid-Build, DB, and CMGC methods. With 17 years of experience as a structures engineer, he is skilled in the design, modification, rehabilitation, repair, and construction of transportation structures. Derek's expertise includes working with prestressed or post-tensioned precast concrete elements, steel girders, complex connection and weld detailing, substructure analysis, and accelerated bridge construction techniques. He is proficient with various structural design codes including AASHTO LRFD, AASHTO Seismic Guide Specifications, and AISC. For these contracts, Derek will focus on designing and implementing rapid construction techniques to minimize traffic disruption and project timelines. He will utilize innovative materials and methods to expedite bridge construction while ensuring structural integrity and compliance with engineering standards. By coordinating with multidisciplinary teams, Derek will deliver efficient and effective bridge solutions that enhance infrastructure resilience and reduce impact on the public.

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).
06/19 - Ongoing	**I-80 and I-215 Renewed - Alternative Delivery, Salt Lake County, UT** **Deputy Project Manager/Structures Lead.** The project includes three bridge replacements and other structure rehabilitations; modifications/reconfiguration to existing IC ramps; maintaining trail system access; and ROW, utility, ITS, and hydraulic design. Horrocks completed the categorical exclusion, PI through all phases, and worked with UDOT to develop the RLOI, RFQ, and RFP to procure a DB contractor. Derek is the Structures Lead and Deputy Project Manager. The structural role includes design and construction oversight of two bridge slides (1300 East & 1700 East), bridge widening (2300 East), phased 2000 East structure, two temporary bridges, and a number of construction-related repairs/fixes. Derek lead the development of the RFP, its goals, and best value selection criteria. He guided the project team navigating the administration and execution of the contract.
11/18 - Ongoing	**Porter Rockwell Bridge - Alternative Delivery, Salt Lake County, UT** **Project Manager.** This Design-Build (DB) project has constructed a bridge across the Jordan River, UPRR rail, UTA rail, and canals. The bridge connects the roadway segments of Porter Rockwell Boulevard on either side of the Jordan River in Bluffdale, Utah. As the Design-Build Program Manager, the Horrocks team provided project management assistance, quality oversight, design review support, construction field support, materials testing and inspection, baseline schedule and monthly update reviews and analysis, and project controls documentation support among other tasks. Derek is the Consultant Project Manager for the project. He led the teams efforts in concept design, RFP development, Design-Builder selection, design oversight, and contract administration. He also supported working through construction-related challenges in the field.
05/11 - 05/12	**West Mesquite Interchange Design-Build, Mesquite, NV** **Structures Lead.** The project included the reconstruction of the diamond interchange to a roundabout style interchange, improving the on- and off- ramps; reconstruction of I-15 bridges; widening Falcon Ridge Parkway to increase access and safety and improve traffic flow; and providing a new local roadway connection from the interchange to Leavitt Lane. Derek provided structural engineering for Nevada's first Accelerated Bridge Construction (ABC) project. He helped develop and design ABC strategies including temporary soil nail walls, precast partial-depth panels, and transverse bridge slides for the two bridge replacements.

Derek Stonebraker resume continued

04/16 - 04/17	**Bangerter Highway Improvements Design-Build Program Management, Salt Lake County, UT** **Principal.** The Bangerter Highway Interchange Improvements project showcases how our project partners benefit from our diverse planning, design team, and experience. This project in Salt Lake County increases the efficiency of access to Bangerter Highway by separating the grades at existing signaled intersections, while minimizing the impact of the new interchange footprints on the community by offering the best interchange design solution. As the Project Manager, Horrocks performed engineering surveys, extensive environmental documentation, major utilities realignments, developed design documents, engaged in extensive public outreach efforts, and worked with local property owners to acquire the necessary ROW to successfully develop these new interchanges. Horrocks also provided the design and landscape aesthetics for the improvements. Derek led the concept design of four major new interchanges and had a significant role in preparing and reviewing DB procurement documents and templates.
08/17 - 12/18	**Garnet Interchange Design-Build, North Las Vegas, NV** **Structures Lead.** The Garnet Interchange 16-month fast-track project called for replacing the existing I-15 bridge structures, built in 1963, while building a new modified diverging diamond interchange. Other improvements consist of a 5-mile-long US-93 widening from two to four divided lanes from the Garnet Interchange to just north of Apex Power Parkway, with added capacity for future expansion. Meanwhile, a partial interchange was created at US-93 and Grand Valley Parkway, better servicing the 2,000-acre Apex Industrial Park in North Las Vegas. A 2-mile-long, two-lane frontage road was also added, parallel to US-93, that connects North Las Vegas Boulevard, Apex Great Basin Way and Grand Valley Parkway, with a future extension to Apex Power Parkway. Derek led the structures design team for a new bridge on I-15 over US-93 using full-depth precast concrete deck panels, a new Diverging Diamond Interchange (DDI), and reconstruction of ramps. He worked in close collaboration with NDOT and the contractor throughout the project.
11/15 - 08/17	**USA Parkway Design-Build, Reno, NV** **Structures Lead.** Horrocks was the lead designer for the USA Parkway Design-Build project built in conjunction with the development of the Tesla battery Gigafactory near Reno, Nevada. The roadway provides a new 19-mile transportation link between I-80 and US-50 at Silver Springs, the longest new alignment developed by NDOT in several decades. The project had a significant number of cuts and embankments, requiring careful consideration of roadside safety, including barrier/guardrail, cable rail, rock fall catchment and roadside ditch geometry. In addition, the project included 80 culvert crossings requiring significant hydraulic design and hydrological analysis, including energy dissipation and embankment protection. This project was designed on a fast track 7-month schedule. Other features include rockfall protection areas, channel armoring to protect from erosion, wildlife crossings, rock staining, artistic rock formations, and metal sculptures. This project provides a high-quality, aesthetically pleasing, durable, and maintainable roadway that accommodates increased truck traffic, improves mobility and safety for the public, and supports regional economic development. Derek led the structures design team and collaborated with the project's hydraulic design and hydrologic analysis experts. His efforts were critical to the fast-track, seven-month design completion including the delivery of hydraulic structures, wild horse crossing structures, and 30-foot-tall sculptures.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Richard Hansen, PE**	Years of Relevant Experience with this Employer	6
Title	Structures Group Manager	Years of Relevant Experience with Other(s) Employers	18
Degree(s)/Years/Specialization	MS/2002/Civil & Environmental Engineering | BS/2001/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#6100772-2202/UT/3-31-2025 | PE#12134/ID/11-30-2024 | PE#17965/NV/6-30-2025 | PE#81638/CA/9-30-2025 | PE#62551/AZ/9-30-2025 | PE#0057746/CO/10-31-2025 | PE#22000561/WA/11-12-2024		
Year Registered	2006	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Complex Bridge Design - Accelerated Bridge Construction Specialist		

Richard has 22 years of experience in bridge and transportation structure design. He excels in innovative foundation design, addressing poor soil, seismic conditions, and utility conflicts. He has also tackled challenging Maintenance of Traffic (MOT) requirements with inventive phasing and Accelerated Bridge Construction (ABC) solutions, optimizing concrete and steel superstructures to meet clearance and span constraints. Richard has worked closely with UDOT and contractors, contributing to Utah's national recognition for innovative bridge design and construction. He has led multiple design teams, ensuring aggressive schedules are met and quality deliverables produced, while minimizing traffic impacts and addressing construction access and clearance limitations. For these contracts, Richard will leverage advanced construction techniques and innovative materials to expedite bridge projects. He will aim to minimize traffic disruptions and shorten project timelines while maintaining high standards of safety and structural integrity. By collaborating with various engineering teams, Richard will ensure the efficient delivery of durable bridge solutions that meet all regulatory and quality requirements.

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).
08/18 - 12/19 SECTION 17 PROJECT	**US-89; Farmington to I-84 Progressive Design-Build, Davis County, UT** **Structures Design Manager.** The US-89 project has improved safety and mobility on US-89 and at connections with local cross streets by widening US-89 to three lanes in each direction; adding interchanges – bridges over US-89 with on/off-ramps – at 200 North/400 North, Oak Hills Drive, Gordon Avenue and Antelope Drive; and adding bridges over US-89 at Nicholls Road and Crestwood Road. The project has also improved connections between US-89 and Main Street, SR-193 and Interstate 84. Some sections of new frontage road have been constructed to improve access to existing frontage roads and local streets. The frontage road system will also function as a signed bicycle route. Richard was the Structures Design Manager for this PDB project and managed the design of seven bridges over US-89, two superstructure replacements over the Weber River, three trail box culverts, sign structures, misc. drainage structures, MSE walls, soil nail walls, ground anchor walls, and cast-in-place cantilever retaining walls. He developed the structures submittal schedule for the project., led the structures/geotechnical task force meetings, and oversaw the development of the preparation of the concepts and estimated quantities for all the structures. Richard provide post-design services (working drawing review, NDCs, FDCs, as-built drawings, RFI responses, etc.).
01/20 - 07/22 SECTION 17 PROJECT	**Reno Spaghetti Bowl Xpress (SBX) Design-Build, Reno, NV** **Structures Engineer.** This design-build project included the reconstruction of I-580 from I-80 to Villanova Street. Work involved the widening and reconstruction of I-580 southbound lanes and bridges. In addition, northbound lanes were reconditioned through full-pavement reconstruction methods. The Horrocks/Ames team provided NDOT with an accelerated design and construction schedule and project phasing that enhanced public safety. Due to increased lane capacity, the public benefits from reduced traffic backups and congestion. Richard lead the design of the 186-ft single-span I-580 SB bridge over Mill Street and the sign structures. He also performed the independent calculations for the I-580 over Truckee River bridge.

Richard Hansen resume continued

11/18 - 02/24	**Porter Rockwell Bridge - Alternative Delivery, Salt Lake County, UT** **Design Manager and Structures Lead.** This Design-Build (DB) project has constructed a bridge across the Jordan River, UPRR rail, UTA rail, and canals. The bridge connects the roadway segments of Porter Rockwell Boulevard on either side of the Jordan River in Bluffdale, Utah. As the Design-Build Program Manager, the Horrocks team provided project management assistance, quality oversight, design review support, construction field support, materials testing and inspection, baseline schedule and monthly update reviews and analysis, and project controls documentation support among other tasks. Richard oversaw coordination for preliminary design for inclusion with DB request for proposal. He developed preliminary layout and design requirements for the new bridge over the Jordan River, UPRR, and UTA tracks and provided reviews of design and constructions submittals.
08/20 - 08/23	**US-40; Over Provo River Deck Replacements, Wasatch County, UT** **Project Engineer.** The structural design for the deck replacements of the three-span curved steel girder bridges included increasing each deck width by two feet which will improve traffic control on US-40 to allow three lanes across the structures with two-foot minimum shoulders. Additional rehabilitation design includes replacement of abutment bearings, concrete sealing, and injection grouting of cracks in abutments. Design included a type selection report to determine the preferred deck replacement option, preliminary and 100% reviews, specifications, engineer's estimate, and final advertising package. Richard led the structural design for replacement of two decks on two three-span curved steel girder bridges over the Provo River. This project included increasing each deck width by two feet which will improve traffic control for future projects on US-40 by allowing three lanes across the structures with two-foot minimum shoulders. The deck replacements followed the UDOT SDDM and AASHTO LRFD Bridge Design Specifications. Richard designed the details for the rehab of the bridge bearings, and replacement of a strip seal expansion joint. He responded to contractor RFIs, coordinated responses to RFIs with the UDOT Structure Oversight Engineer, and reviewed construction submittals.
02/22 - 06/23	**I-15; 5600 South Progressive Design-Build, Weber County, UT** **Deputy Design Manager and Structures Manager.** Horrocks was selected by UDOT to begin work on the I-15, 5600 South Progressive Design-Build (PDB) project located on I-15 and SR-97 within Roy and Riverdale City. This is an interchange reconstruction and SR-97 (5600 South) widening project to reduce congestion and improve safety from I-15 west to SR-108. The major items of work include a new interchange with multiple structures, road widening (including widening an existing structure over railroad), intersection improvements, trail systems, utilities, drainage, ROW, and Hill Air Force Base coordination. Horrocks is the lead designer teamed with Granite Construction and WW Clyde, who formed the JV Sand Ridge Constructors, to win this alternative delivery project. Richard served in two capacities, Deputy Design Manager and Structures Design Manager, during the first year of this PDB project. He developed the overall project and structures submittal schedule for the project, developed the initial bridge concepts for three highway bridges and a pedestrian bridge, and oversaw the type selection report and Situation and Layout (S&L) sheet production to obtain Structures Division acceptance during the first phase of the project. As part of this initial phase, Richard worked with the project team to develop preliminary details for continuous flight auger piles that will support the pedestrian structure--the first time UDOT used this foundation system.
07/19 - 01/23	**I-80 and I-215 Renewed - Alternative Delivery, Salt Lake County, UT** **Structures Design Review.** The project included three bridge replacements and other structure rehabilitations; modifications/ reconfiguration to existing IC ramps; maintaining trail system access; and ROW, utility, ITS, and hydraulic design. Horrocks completed the categorical exclusion, PI through all phases, and worked with UDOT to develop the RLOI, RFQ, and RFP to procure a DB contractor. Richard's responsibilities included reviewing bridge designs for UDOT and oversight reviews for Accelerated Bridge Construction submittals for compliance with contract documents.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Spencer Stephenson, PE**			Years of Relevant Experience with this Employer	18
Title	Deputy Director, Transportation Business Line			Years of Relevant Experience with Other(s) Employers	18
Degree(s)/Years/Specialization			BS/2008/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#8650307-2202/UT/3-31-2025		
Year Registered	2013	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design - Railroad Bridges/Alternative Delivery			

Spencer has 18 years of structural design experience with all project types including preconstruction engineering, environmental and feasibility studies, program management, and oversight/review. He is familiar with design-build, design-bid-build, and CM/GC delivery methods. His experience including structure type selection, single-and multi-span highway and railroad bridge design, precast/prestressed concrete elements, steel girder and component design, and finite element modeling, he is also a certified bridge inspector and team leader. Spencer has experience with environmental and feasibility studies, program management and oversight/review, and is familiar with alternative project delivery methods. For these contracts, Spencer will focus on designing and delivering railroad bridge projects using alternative delivery methods. He will develop innovative design solutions that ensure structural integrity and compliance with safety standards. Spencer will enhance project outcomes and ensure timely, cost-effective construction of railboard bridges.

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 - Ongoing	**I-15; Shepard Lane Interchange, Farmington, UT** **Structures Manager.** Spencer was the Project Structures Manager and ensured all elements were designed in accordance with the SDDM and AASHTO bridge design standards. Bridge types selected were all steel girder superstructures. Spencer led the structures team through a complex type selection process for the pedestrian bridges, including the development of several unique details related to connecting a trail to a network of existing retaining walls and bridges.
11/21 - Ongoing	**I-15; 1800 North Interchange Design, Clinton & Sunset, UT** **Structures Manager.** Spencer is the Structures Manager for the project, leading a team from Horrocks, DEA, and JUB. Steel girder bridges were selected at the interchange and railroad crossing due to span lengths. Spencer led the effort to develop all UPRR submittals and to coordinate approval through UTA. He has been flexible as the design scope has changed multiple times with additional funds being added to the project - first adding the railroad grade separation structure and most recently adding a pedestrian bridge to the project.
08/18 - 08/24 SECTION 17 PROJECT	**US-89; Farmington to I-84 Progressive Design-Build, Farmington, UT** **Structures Manager.** Spencer is the Structures Manager for the project, leading a team from Horrocks and Michael Baker International to develop the design of six new bridges over US-89, two superstructure replacements for the US-89 bridges over the Weber River, soil nail walls, MSE walls, cast-in-place walls, custom post-and-panel walls, ground anchor walls, and two pedestrian trail box structures. The superstructure replacements included increasing the width of the roadway to accommodate an additional lane across each bridge. The new superstructures used steel girders to replace the existing prestressed girders to allow the roadway width to increase without adding additional load to the superstructure. Other work included rehabilitation plans and details for the substructure elements. The existing abutment pedestals have extensive deterioration and cracking. The repair details include removing any delaminated concrete and then encasing the pedestals in concrete. Other repairs include reconstructing bent cap overhangs, backwall repair, wingwall repair, and application of penetrating concrete sealer.

Spencer Stephenson resume continued

06/09 - 11/11	**Mountain View Corridor Segment 1-3 CMGC, Salt Lake County, UT** **Structures Manager.** The Mountain View Corridor is a planned freeway facility along the west side of the Salt Lake Valley beginning in the northern part of Utah County and continuing to I-80 west of the Salt Lake International Airport. To meet the proposed funding schedule, the project is being constructed in multiple phases. This project initiated Phase 1 and included new roadway from the Porter Rockwell Blvd/Redwood Road intersection up to the intersection with 5400 South. Phase 1 of the project was delivered using CMGC to help develop innovative solutions that maximize the amount of new roadway built. Phase 1 was designed to accommodate the future Phase 2, which will include interchanges at major cross streets, and Phase 3, which will add mainline capacity. Spencer served as the structures manager and ensured the project was delivered on time and within budget. He also directed communication with staff and project managers, and provided technical support to the team to meet project deadlines and goals.
05/11 - 06/12	**West Mesquite Interchange Design-Build, Mesquite, NV** **Structures Manager.** The project included the reconstruction of the diamond interchange to a roundabout style interchange, improving the on- and off- ramps; reconstruction of I-15 bridges; widening Falcon Ridge Parkway to increase access and safety and improve traffic flow; and providing a new local roadway connection from the interchange to Leavitt Lane. Spencer served as the structures manager and ensured the project was delivered on time and within budget. He also directed communication with staff and project managers, and provided technical support to the team to meet project deadlines and goals.
08/07 - 04/11	**FrontRunner South Commuter Rail, Salt Lake and Utah Counties, UT** **Structures Manager.** The $514M FrontRunner South line travels 44 miles along the Union Pacific corridor, from the Provo Intermodal Center through Utah County to the Salt Lake Central Station in downtown Salt Lake City. FrontRunner South was a construction manager/general contractor (CMGC), project and design advanced just ahead of construction. UTA finalized details on track alignments, station locations, and structure lay-outs during the course of construction. FrontRunner South features eight stations with the possibility of adding two future stations. The project consisted of over 60 rail structures. Of these 60 structures, Horrocks was responsible for the four structures in the Lehi segment. The Lehi segment consisted of one precast box culvert over Dry Creek, one simple span precast/prestressed box girder bridge over the Lehi Irrigation Waste Ditch, and two 556 foot, six span, steel girder bridges over the new 2100 North Frontage Roads. The box culvert required helical pier foundations to mitigate differential settlement between the new and existing culverts. The bridges at 2100 North required a complex solution, the original bridge layout for 2100 North required four – two span bridges to pass the UPRR and UTA tracks over new frontage roads; however, the design did not allow for future expansion of 2100 North without the addition of a third bridge (shoofly) in the future. To eliminate the requirement for a future third bridge, the layout of the four – two span bridges was changed to two – 6 span bridges that span the new frontage roads and future Mountain View Corridor roadways. The resulting 6 span bridges use simple span steel girders founded on pile supported abutments and pier walls. The two bridges are nearly identical to provide a symmetric look to the area and reduce construction and design costs. Spencer served as the structures manager and ensured the project was delivered on time and within budget. He also directed communication with staff and project managers, and provided technical support to the team to meet project deadlines and goals.
03/16 - 01/18	**I-15; Brigham Road to Dixie Drive, St. George UT** **Project Engineer.** The I-15, Brigham Road to Dixie Drive project widened I-15 to add auxiliary lanes in each direction between Brigham Road (Exit 4) and Dixie Drive (Exit 5), and to accommodate an additional future general purpose lane in each direction. The auxiliary lanes allow motorists to enter the freeway at one interchange and get off at the next without having to merge with through traffic or change lanes, and allows for additional weaving distance for traffic exiting the freeway. In order to accommodate the widening, the existing bridge structures over the Virgin River were replaced with new concrete girder bridges founded on over-sized drilled shafts. Total bridge length is 416 ft. Mechanically Stabilized Earth (MSE) retaining walls were included to support the trail that runs adjacent to I-15, south of the river. Prefabricated modular gravity walls were installed to support the reconstructed southbound off ramp and eliminate right-of-way (ROW) impacts. Multiple sign structures were installed as part of the project including the cantilever, butterfly, single, and double-mast sign bridges. As the project engineer, Spencer worked closely with the design team to develop engineering plans, drawings, and specifications.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**David Simmons, PE**			Years of Relevant Experience with this Employer	10
Title	Structures Engineer			Years of Relevant Experience with Other(s) Employers	6
Degree(s)/Years/Specialization			MS/2010/Civil Engineering | BS/2008/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#8226945-2202/UT/3-31-2025		
Year Registered	2012	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Inspections/Load Ratings/AD Procurement			

David is a team leader with 16 years of experience in bridge inspections, design, and load rating, utilizing codes such as MBE, IMBE, BIRM, and MBEI, along with the FHWA Recording and Coding Guide. He specializes in Element Level inspection procedures for steel, prestressed/reinforced concrete, and timber structures. With a background in bridge asset management from his early career at UDOT, David used bridge inventory data to develop lifecycle plans and statewide bridge management programs. Proficient in Pontis and AASHTOWare BrM, he collaborated with bridge database managers and inspectors to ensure consistent and accurate data collection, and trained inspectors to accurately identify and report structure conditions. For these contracts, David will conduct thorough inspections to access bridge conditions, perform load ratings to determine capacity, and oversee the procurement process for alternative delivery methods. He will ensure compliance with safety standards and regulatory requirements, prioritize maintenance and repair needs, and manage procurement activities to facilitate efficient project execution and resource allocation.

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 - Ongoing	**Mountain View Corridor (MVC) 2100 N. to Porter Rockwell Design-Build Program Management, Utah County, UT** **Structures.** The Horrocks program management team that includes partners in other Consultants and UDOT Region 3 developed an RFP that included, among other things, requirements for a wildlife crossing. Criteria, including placement along the new MVC alignment, opening size vs. length, for the wildlife crossing were developed in coordination with Utah Department of Wildlife Resources and based in the latest research regarding wildlife crossing geometrics that encourage successful usage.
09/18 - 12/25	**West Davis Highway Design-Build Program Management, Davis County, UT** **Structures Segment Lead.** David was a Segment Structures Lead on this project, overseeing all concept development for eight structures, including three multi-span, curved steel structures at the system-to-system interchange. Additionally, he provided structures support for the Request for Proposal (RFP) and concept documents and completed reviews for the calculations, plans, and specifications.
05/18 - 06/21	**Bangerter Highway Three Interchanges Design-Build Program Management, Salt Lake County, UT** **RFP Technical Editor/Structures Engineer.** David was a technical editor of the RFP that went out to DB teams. Additionally, he served as a technical reviewer of structure deliverables focusing on the structures section and providing review of other sections as well.
10/19 - 10/21	**I-15; Parapet Replacements Near Beaver, UT** **Structures Lead.** The Horrocks-led team developed a preservation memo, structures design, and roadway design for parapet and substructure repair on eight structures on I-15 in Beaver, Utah. Existing bridge information, including a scope and estimate report, was reviewed and updated based on a site visit. Criteria to determine if parapet replacement or rehabilitation was appropriate were developed with UDOT. Column repairs were also needed. Similar to the parapets, criteria was developed with UDOT to determine appropriate types of preservation. As Structures Lead, David worked closely with the construction management staff and met on-site multiple times to inspect the damage, review contractor-proposed repair methods, and inspect the completed repair.

David Simmons resume continued

08/17 - 04/18	**NDOT Garnet Interchange Design-Build, North Las Vegas, NV** **Project Engineer.** David provided quality control of design and plan sheet deliverables related to structural elements on the US-93 and Grand Valley Parkway bridges. He also provided quality control of design and plan sheet deliverables for box culverts and sign structures. As part of the quality control process he ensured adherence to applicable and current AASHTO, project specific, and NDOT standards.
05/22 - Ongoing	**River Road Bridge Replacement, Duchesne, UT** **Project Manager.** As Project Manager, David is coordinating closely with UDOT R3, Duchesne County, and subconsultants. He produced the project design schedule that was based in the UDOT Project Delivery Network. The project was underfunded so David worked closely with project leadership and successfully prepared and presented additional funding request to the Joint Highway Committee. The project design was completed on schedule. David oversaw the creation of the specifications, prosecution and progress, and bidding contract time.
09/16 - 09/18	**I-15; Lehi Main - SR-92 Tech Corridor Design-Build Program Management, Lehi, UT** **Structural Engineer.** David served as a Structures Engineer in the development of preliminary bridge concepts. He was also a technical reviewer; ensuring structure deliverables met the contract. Tech Corridor project widened I-15 to six lanes in each direction between SR-92 and Lehi Main Street in Lehi, Utah (4.4-miles) and included 15 bridge replacements, a new Triumph Boulevard bridge over I-15, and a new flyover ramp at 2100 North.
04/16 - 11/16	**SH-55,;Gold Fork Bridge Design, Valley County, ID** **Structural Engineer.** David performed structural design of superstructure and substructure elements. He also assisted in construction support on this Design-Build project for the Idaho Transportation Department (ITD). The project replaced the existing two-span bridge with a 153-foot single-span concrete girder bridge over the environmentally sensitive Gold Fork River. Improvements completed with this project included wider shoulders and a design speed increase for the approaching roadway. Beyond fulfilling the design manager role for the project, services provided by Horrocks included: bridge design, roadway design, drainage and hydraulic design, traffic control design, SWPPP design and Special Provision development.
11/15 - 07/16	**USA Parkway Design-Build, Reno, NV** **Structures Engineer.** David was responsible for design and sheet production for multiple box culverts. He also provided quality control of design and plan sheet deliverables for box culverts not within his design responsibility. In all, the Horrocks structures team designed and detailed two cast-in-place concrete wildlife crossing structures. Four-sided box culvert construction was utilized with a soil covering over the bottom, concrete slab. Criteria that included opening size, length, slope, and soil type/depth were coordinated among disciplines and agencies during design.
08/13 - 10/15	**Salt Lake City International Airport Terminal Redevelopment Program, Salt Lake City, UT** **Structures Engineer.** Horrocks was part of the landside civil engineering team for this $2B redevelopment project and was responsible for schematic design of all water, sewer, and gas system designs, survey services, SUE services, roadway, drainage, pavement marking, and structures design. David was on the bridge design team, he performed design tasks related to the departures bridge which was a 19 span pre-stressed concrete girder bridge that was divided into three frame units. He was specifically responsible for Unit 3, which was a five-span, horizontally curved structure with chorded pre-stressed concrete girders. David also performed construction support, responding to materials submittals, RFIs, etc.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Midhat Hassan, PE**			Years of Relevant Experience with this Employer	<1
Title	Senior Bridge Engineer			Years of Relevant Experience with Other(s) Employers	28
Degree(s)/Years/Specialization			MS/2005/Civil Engineering | BS/1996/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#48185/AZ/9-30-2026 | PE#22864/NM/12-31-2024 | PE#030517/NV/6-30-2025 PE#145016/TX/3-31-2025 | PE#12724311-2202/UT/3-25-2025		
Year Registered	2008	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Technical			

Midhat has 28 years of experience in both design and construction fields. His experience involves complex projects from concept development, planning, studies through post design and complete construction. Midhat proactively manages project budgets, schedules, and technical and quality requirements in support of the project's objectives. Midhat is well-versed in high level technical tasks while managing and reviewing design related specifications, calculations, reports, and plans. He also has various experience with alternative delivery methods, including design-bid-build, design-build, and construction manager at risk. Exceptional understanding and wide experience with different types of bridges, retaining walls, and their analysis, design, detailing, and construction approaches. For these contracts, Midhat will focus on the technical aspects of bridge design, including structural analysis, material selection, and detailed engineering calculations. He will ensure that bridge designs meet all regulatory requirements and industry standards while optimizing for safety, durability, and functionality. Through meticulous planning and technical expertise, they contribute to the successful development and execution of bridge projects.

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).
04/24 - Ongoing	**I-80 West Reno - Bridge Replacements, Reno, NV** **Senior Bridge Engineer.** The project includes the replacement of seven existing structures that were identified as priority bridge replacements based on age and condition ratings. Initially, Horrocks was tasked with developing the contract framework to facilitate the successful implementation of a Design-Build project to replace the vital infrastructure and maintain safety, operations, and mobility on I-80 as well as develop preliminary design and phasing to reduce impacts to the traveling public during construction. However, as the project progressed, the contract was changed to a Design-Bid-Build project with Horrocks as the prime consultant.
04/24 - Ongoing	**I-80 Verdi Bridge Replacements Environmental Assessment, Reno, NV** **Senior Bridge Engineer.** Interstate 80 (I-80) is a major east-west freeway traversing through northern Nevada and is the major transportation connection between Sacramento, the Bay Area, and the Truckee Meadows. As part of Nevada Department of Transportation's (NDOT) bridge maintenance program, 8 mainline I-80 bridges in the west Reno and Verdi area have been identified as priority candidates for replacement. These bridges include I-773 E/W, G-772 E/W, G-765 E/W and B-764 E/W and will be referred to herein as the Verdi Bridges. The bridges cross the third street on-ramp, Truckee River, UPRR, and Truckee Meadows Water Authority (TMWA) facilities.
10/19 - 03/20	*** 4th Street Bridge Replacement over I-40, Flagstaff, AZ** **Structural Engineer.** This project consisted of two single span bridges over both directions of the I40. The bridges were constructed in two segments, the short segment (27.333 feet) was built in place to be used as an emergency route during the removal of the existing bridge and the larger portion (66.33 feet) was built on temporary abutments and then slid into its final place using jacks on both ends. The superstructure consisted of AASHTO type VI girders supported on stub abutments founded on spread footing. Midhat's role was to design the sliding elements, jacking blocks, sliding bars, and sliding and final bearings.

Midhat Hassan resume continued

09/10 - 05/11	*** Avondale Boulevard/ADOT Canal Bridge, AZ** **Bridge Design Engineer.** Midhat was responsible for final design of the NB and SB widening of an existing three-span concrete slab bridge over a major drainage channel. Constraints included a 20-inch diameter high-pressure gas line and numerous other utilities.
06/15 - 02/17	*** ADOT Bridge Inspection On-Call Contracts, AZ** **Structural Engineer.** The scope of this contract included routine inspection for several bridges in different locations within Arizona. Bridges varied between steel and pre-cast pre-stressed girders to cast in place girders. Midhat was responsible for performing field inspection according to FHWA and ADOT guides, preparing the inspection reports, and rating the bridge elements according to NBI and ADOT manuals.
06/11 - 02/12	*** Dubacher Canyon Hydraulic Structures, AZ** **Engineer of Record/Structural Engineer.** This project included the final design of a wastewater tank, a single-span box culvert, and a stilling basin. The box culvert spanned 50 feet over the roadway. Midhat was responsible for structural design, developing the construction drawings, and post-design support.
12/08 - 07/09	*** I-10 Freeway Median Widening, Verrado Way to Sarival Avenue, AZ** **Bridge Design Engineer.** Midhat was responsible for final design of the EB and WB widening of two single-span bridges. Both structures were widened with three cells of cast-in-place/post-tensioned box girders spanning 126 feet.
04/08 - 12/08	*** I-10 Freeway Westside Widening, Sarival Avenue to Dysart Road, AZ** **Bridge Design Engineer.** Midhat was responsible for final design of the EB and WB widening of a 20-span bridge over Agua Fria River. The AASHTO Type IV superstructure was flared at one end to accommodate entrance and exit ramps. The piers were supported on circular columns and drilled shafts.
01/11 - 07/11	*** I-10 Improvements, Ina Road to Ruthrauff Road DCR, Tucson, AZ. Bridge Design Engineer.** Midhat was responsible for preliminary design and cost estimating for three new bridges carrying Ina Road over I-10 and the adjacent Union Pacific Railroad.
11/13 - 08/14	*** NMDOT, I25 over Sandia Railroad Spur Bridge Replacement Design, NM** **Structural Engineer.** These 132 foot two-span bridges were built side by side to carry I25 over Sandia RR. Both bridges are 63 feet wide with two equal spans supported on multicolumn pier founded on combined spread footing. Both bridges utilized 36 pre-stressed pre cast girders to support the superstructure. Midhat was responsible for the design of the center pier, he also, performed seismic check to make sure the pier has sufficient strength to stand in an extreme event (EQ).
06/23 - 04/24	*** ADOT, I40 over Ranch Santa Fe, Kingman, AZ** **Lead Structural Engineer.** This interchange consisted of two parallel bridges, both has the same length and width (44 feet10 inches). The superstructure is a concrete deck supported on UBT42inch pre-cast pre-stressed girders. The bridge has two identical spans supported on multicolumn center bent and tall abutments. All substructure elements are founded on spread footing. Standard ADOT retaining walls are required on all four corners of each bridge to retain the backfill behind those tall abutments. Midhat's role was to supervise and mentor the design team, manage and direct the plan production, review both calculations and plans, and arrange the quality review. Midhat also attended weekly meetings to coordinate with other disciplines and provided progress report for all structures.

*** Prior Project Experience**

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Dana Ames, PE**	Years of Relevant Experience with this Employer	16
Title	Senior Structures	Years of Relevant Experience with Other(s) Employers	29
Degree(s)/Years/Specialization	MS/1992/Structural Design | BS/1988/Physics | BS/1988/Civil Engineering		
Active Registration Number/State/Expiration Date	SE#33812/AZ/6-30-2026 | PE#54846/CA/6-30-2024 | PE#0035429/CO/10/31/2025 | PE#27525/NM/12-31-2025 | CE/SE#010712/NV/12-31-2024 | PE#8072512-2203/UT/3-31-2025		
Year Registered	1993	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Bridge Technical		

Dana has 35 years of diversified experience in civil and structural engineering, specializing in the structural design of transportation-related structures. As a licensed civil and structural engineer, he has extensive experience designing bridges, retaining walls, culverts, drainage structures, and overhead signs. Dana's bridge design work includes a variety of configurations, such as simple and multi-span structures on both tangent and curved alignments, and highly skewed structures. He is proficient in designing various superstructure types, including I-girders, steel tub girders, cast-in-place post-tensioned box girders, precast I-girders, precast box beams, conventional reinforced slabs, and concrete arches. Additionally, Dana has significant experience in bridge substructure design and delivering projects using design-bid-build, design-build, and CMAR methods. For these contracts, Dana will handle the technical intricacies of bridge design, including structural assessments, material choices, and precise engineering calculations. He will ensure that all designs adhere to regulatory standards and industry best practices, prioritizing safety, durability, and functionality. Dana's technical expertise and detailed planning are crucial to the successful completion of bridge projects.

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 - 02/23 SECTION 17 PROJECT	**Reno Spaghetti Bowl Xpress (SBX), Reno, NV** **Structural Lead.** This design-build project included the reconstruction of I-580 from I-80 to Villanova Street. Work involved the widening and reconstruction of I-580 southbound lanes and bridges. In addition, northbound lanes were reconditioned through full-pavement reconstruction methods. The Horrocks/Ames team provided NDOT with an accelerated design and construction schedule and project phasing in order to enhance public safety. Due to increased lane capacity, the public now benefits from reduced traffic backups and congestion. Dana was responsible for supervising the completion of the bridges, walls, and other structures. He managed a team of structures and project engineers to determine final bridge layouts, types, substructure locations and other key elements for the bridges.
10/15 - 12/19	**Project Neon, Las Vegas, NV** **Engineer of Record/Structures Lead.** Dana was responsible for managing scope, schedule, and budget. He also served as the Lead Engineer for the MSE wall design and was responsible for review and checking for the drainage structures and the Oakey Boulevard bridges. Project Neon was the largest public works project in Nevada at the time. The project widened 3.7 miles of Interstate I-15 between Sahara Avenue and the "Spaghetti Bowl" interchange in downtown Las Vegas. NDOT selected the Design-Build method to complete the first phase of the project.
02/22 - 06/23	**I-15; 5600 South Progressive Design-Build/PDB Weber County, UT** **Engineer of Record.** Dana was the Engineer of Record (EOR) for the twin I-15 over 5600 S bridge and the CULV 1 bridge. He coordinated with other disciplines, completed preliminary design and layout of the structures, supervised preparation of the plans and calculations, and completed QC on items designed by others.

Dana Ames resume continued

06/18 - 04/23	**Summerlin Parkway CC215 Interchange, Clark County, NV** **Structures Lead.** Clark County Public Works (CCPW) selected Horrocks to provide final design of the CC215-Summerlin system-to-system interchange in west Las Vegas, NV. CCPW is implementing improvements that will provide direct and semi-direct free flowing movements between the CC-215 Western Beltway and Summerlin Parkway. Dana is responsible for supervising the completion of bridges, walls, and other structures. He is preparing the structural basis of design memo that provides basic design criteria for the bridges and walls. Dana works with other project engineers to determine final bridge layouts, types, substructure locations and other key elements for the bridges. During preliminary and final design, he reviews the plans and calculations completed by other staff to verify they meet project, NDOT, and AASHTO requirements.
08/16 - 04/24	**Jones Blvd/Blue Diamond to Windmill, Las Vegas, NV** **Structural Lead.** Dana was the initial contact with CCPW and is responsible for overall structural design and completion of the project including coordination with sub-consultants and control of the scope, schedule, and budget. Dana has led the retaining wall design effort completing horizontal and vertical layout of the walls, wall sections, and details. He has also supervised the completion of the bridge plans and calculations including completing a detailed review of the plan and calculations at each submittal stage, verifying the plans and calculations meet CCPW, NDOT and AASHTO standards. He is also responsible for utility coordination on the project.
02/22 - 03/24	**I-15 South Phase 2 Sound Walls, Las Vegas, NV** **Structural Lead.** Dana led the design of over three miles of soundwall, including coordination with other disciplines, establishing wall design criteria, supervising calculation, and plan preparation. Horrocks is augmenting NDOT's in-house design team by providing the structural design and drainage assessment for eleven new sound walls along three miles of mainline northbound and southbound I-15 and several interchange ramps and range from 14- to 18-feet tall. The new sound walls will run between the St. Rose Parkway and Blue Diamond Road Interchanges. Final design plans include new inlets and roadside ditches and details for new wall openings to mitigate runoff generated within the I-15 ROW.
08/18 - 12/19 SECTION 17 PROJECT	**US-89; Farmington to I-84 Progressive Design-Build, Farmington, UT** **Structures Engineer.** Dana led the design of several retaining walls for the project. He also supervised preparation of calculations and plans and completed QC on items designed by others. Horrocks and Michael Baker International teamed to develop the design of six new bridges over US-89, two superstructure replacements for the US-89 bridges over the Weber River, soil nail walls, MSE walls, cast-in-place walls, custom post-and-panel walls, ground anchor walls, and two pedestrian trail box structures.
10/17 - 10/18	**I-15 Tropicana Harmon Hacienda NEPA, Las Vegas, NV** **Project Manager.** The Harmon Ave bridge has a unique layout that includes integration of an I-15 ramp structure, partial length bridge widening, and field splices to existing girders. Although this was only a 30% design, it was critical that sufficient analysis be performed to ensure the layout provided would not change afterwards. Due to the complex geometry of the bridge, which included both the integration of an I-15 ramp structure and a partial length bridge widening, additional analysis was required to ensure the layout provided was feasible and cost effective. This additional analysis included accounting for field splices to existing girders, pier caps running parallel to the edge of deck and complex thermal movements. Dana oversaw the design and review of the 30% plans. He was responsible for the personnel, budget, and schedule of the projects.
10/17 - 10/18	**CC-215/Grand Montecito Parkway Bridge, Las Vegas, NV** **Project Manager.** Dana was responsible for overall management of the project. Additionally, he oversaw the design of all structural elements required to complete the project, including the bridge and wingwalls. Dana was the primary contact with CCPW and responsible for coordination and communication with CCPW, NDOT, utility companies, subconsultants, and other project stakeholders.
10/17 - 12/20	**I-15/215 System to System Interchange Phase 4, Las Vegas, NV** **Engineer of Record.** Dana was responsible for control of scope, schedule, and budget. He led coordination efforts with other project disciplines. For the final design phase, Dana served as the Engineer of Record for the SW ramp over Tropical Parkway bridge.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Ryan Page, PE**			Years of Relevant Experience with this Employer	2
Title	Associate Bridge Engineer			Years of Relevant Experience with Other(s) Employers	16
Degree(s)/Years/Specialization			MS/2006/Civil Engineering | BS/2004/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#79632/FL/2-28-2025 | PE#0050378/CO/10-31-2025 | PE#13486210-2202/UT/3-31-2025 | PE#19375/NM/12-31-2025		
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Complex Bridge Ratings			

Ryan is a licensed Professional Engineer with 18 years of experience focused on transportation and infrastructure projects. He has designed and analyzed a wide range of bridge structure types, drainage structures, culverts, and retaining walls. He is knowledgeable regarding accelerated bridge construction (ABC) techniques, as well as highway bridge load rating, gusset plate rating, truss bridge rating, inspection, and condition assessment. Ryan has worked on complex design-build projects including the I-35E project in Dallas and the Gateway project in Kansas City. Ryan has performed work for the state departments of transportation in Colorado (CDOT), New Mexico (NMDOT), Utah (UDOT), Florida (FDOT), Kansas (KDOT), and Texas (TxDOT); as well as with the Canadian Pacific Railway (CP), Burlington Northern Santa Fe Railway Company (BNSF), and Montana Rail Link (MRL). Ryan is an advanced user of both bridge-specific and general structural analysis and computer-aided design and drafting (CADD) programs including: LARSA 4D, MIDAS, MDX, MicroStation, AutoCAD, Mathcad, PG Super, SP Column, and BrR. In addition to design, his responsibilities have included plan and proposal development, checking others' calculations for accuracy, and leading design teams.

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 - 04/23	**I-15; Shepard Lane Interchange, Farmington, UT** **Senior Quality Control Bridge Engineer.** Ryan is responsible for checking sheets and calculations for several bridge and wall structures. He checked the design calculations and the plan sheets for the E2800 pedestrian underpass as well as the superstructure sheets for bridge 11035C. Ryan also checked the plan sheets for wall R 921 which consisted of six total walls. He was the checker for overhead sign detail sheets and he completed load rating for C108 plan sheets.
06/23 - 11/23	**I-15; 5600 South Progressive Design-Build Phase II, Weber County, UT** **Quality Control Manager.** Phase 2 will progressed the design to a final level to Release for Construction (RFC) packages. Phase 2 includes design services during construction. Ryan continuing his QC role and was the checker for calculations and plan sheets for walls and bridges.
02/22 - 06/23	**I-15; 5600 South Progressive Design-Build Phase I, Weber County, UT** **Quality Control Manager.** Phase 1 utilized the progressive design build process to progress the design to a 30% to 60% level depending on the discipline. Ryan was the checker for calculations and plan sheets for walls R 935, R 936, R 937, and R 93; substructure sheets for bridge C 1102; and for partial substructure calculations. He was the Engineer of Record (EOR) on walls R 936, R 937, and R 938.
10/21 - 11/22	**I-15 MP 10-13 Widening, Exit 11 Interchange, Washington, UT** **Senior Quality Control Bridge Engineer.** Ryan was responsible for checking sheets and calculations for several bridge and wall structures. He was checker for walls R 924, R 925, and R 926 and for some of the plan sheets for bridge F 947. Ryan also checked the load rating of structure 1F 947 and 3F 947.

Ryan Page resume continued

2018	*** Connect 4, Design-Build, Irving, TX** **Senior Bridge Engineer.** Ryan developed calculations for the superstructure and the substructure. The superstructure is prestressed concrete TxDOT "I" girders. The substructure is cast-in-place, conventionally reinforced concrete with hammerheads and multicolumn bents. He also designed the columns and the drilled shafts, and directed the CAD team on sheet production to match the calculations.
2011 - 2012	*** I-15 CORE (Corridor Expansion), Utah County, UT** **Substructure Design Engineer.** Ryan designed the substructure design for Center Street, as well the temporary foundation for Center Street Bridge, which was constructed off-site and moved into its final location using accelerated bridge construction (ABC) techniques. He also designed a temporary bridge consisting of a steel superstructure on temporary steel piles and provided structural engineering for the 920 South overpass, a single-span, prestressed concrete girder bridge supported on piles.
2022	*** I-15, Tropicana Design-Build, Las Vegas, NV** **Senior Bridge Engineer.** Ryan led the quality control team and was responsible for checking the sheets and calculations for Harmon Channel. Harmon Channel includes a completely buried box structure that transitions into an open channel. The entire structure consists of cast in place concrete with mild reinforcement. The design also included attachments for light poles and a safety railing.
2022	*** I-17 Anthem Way to Jct SR 69 Design-Build, Maricopa and Yavapai Counties, AZ** **Senior Bridge Engineer.** Ryan led the quality control team for checking the sheets and calculations for the widening of the twin structures at New River TI. The widening included stub abutments, piers on spread footings and deep drilled shaft foundations. The superstructure consisted of UBT prestressed concrete bulb "T" girders. Ryan was overall in charge of QC of every aspect of the bridge widening, including load rating and structure modification reports. He had a team working under his direct supervision for checking of each calculation. These calculations included girders, deck, bearings, columns, pier caps, abutments and foundations.
01/17 – 10/17	*** I-25 South Gap Project: Widening Between Castle Rock and Monument, CO (Environmental Assessment - EA)** **Bridge Engineer.** Ryan conducted a field investigation of each bridge and developed preliminary calculations for potential widening and replacement structure options, as well as preliminary structure selection reports. He also attended stakeholder coordination meetings.
09/15 - 10/17	*** Region 5 Bridge Preventative Maintenance (BPM) Package, Archuleta, Dolores, and La Plata Counties, CO** **Bridge Engineer.** This project involved inspecting seven bridges in Archuleta, Dolores, and La Plata Counties in Colorado, evaluating current conditions, and recommending rehabilitation options. Ranging from joint replacement to approach slab reconstruction to waterproofing and overlays, the team's recommendations resulted in actions including bridge deck repairs, installing waterproofing membrane, replacing expansion devices, and roadway resurfacing and re-striping. Ryan conducted site visits for structure inspections, developed calculations for repair actions. He also worked with CAD staff to develop plans for the structures and attended client meetings.
01/17 - 06/17	*** Region 5 Major Structure Asset Management Plan: US 550 over the Animas River Bridge, Durango, CO** **Bridge Engineer.** This project evaluated an existing bridge to determine if it was a candidate for minor Bridge Preventative Maintenance (BPM) repair, major rehabilitation, or replacement. The structure was determined to be scour critical and received a poor Load and Resistance Factor Design (LRFD) rating. Ryan conducted a site visit to inspect the bridge and he oversaw junior staff tasked with performing calculations and developing reports for the project.
2019 - 2020	*** Mountain View Corridor Initial Phase, Salt Lake County, UT** **Senior Bridge Engineer.** Ryan developed calculations for the superstructure and the substructure of the Cilma overpass. The superstructure is prestressed concrete UBT bulb "T" girers with a cast in place deck. The substructure is cast-in-place and followed the AASHTO Seismic Design Guide with UDOT specific direction.

*** Prior Project Experience**

STAFF EXPERIENCE:

Group 5 - Traffic Design Team

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Sheelagh Brin Ferlito, PE, PTOE**			Years of Relevant Experience with this Employer	8
Title	Supervisor - Eng			Years of Relevant Experience with Other(s) Employers	27
Degree(s)/Years/Specialization			BS/1988/Civil Engineer		
Active Registration Number/State/Expiration Date			PE#25383/LA/09-30-25		
Year Registered	1993	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Data Collection and Signals | **Meets MPR 5**		

Brin will oversee the gathering and analysis of traffic data and the design and implementation of traffic signal systems. She will ensure accurate data collection to inform decision-making and optimize signal operations for safety and efficiency. By coordinating with multidisciplinary teams, Brin will enhance traffic flow and manage signal infrastructure to meet regulatory standards and project goals.

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	**H.007160 - EBR Computerized Traffic Signal, Phase VB (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 SECTION 17 PROJECT	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (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 Street and at Engineers Road. 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. **This project included complex urban highway design as required in MPR 5.**
09/20-12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (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 multi-lane roundabouts along LA 30 at I-10 Interchange ramps and at 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.

Sheelagh Brin Ferlito resume continued

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	**Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission (Rockville, MD)** 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.
04/14–12/14	**H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA)** **Project Manager.** 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.
07/12-03/14	**EBR 03-TS-CI-0026 CE&I/OV for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA)** **Project Resident Engineer.** Brin was the Project Resident Engineer on behalf of EBR for performing CE&I/OV 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 well as all items on the EBR project closeout checklist.
07/08-09/09	**SPN 013-05-0043 CE&I/OV for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA)** **Project Resident Engineer.** Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I/OV 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.
09/13 – 04/14	**S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA)** 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.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC			
Name	**Laurence Lucius Lambert II, PE, PTOE, PTP**	Years of Relevant Experience with this Employer	8
Title	Supervisor - Eng	Years of Relevant Experience with Other(s) Employers	18
Degree(s)/Years/Specialization	BS/1997/Civil Engineer | MS/2006/Civil Engineer (Transportation focus) | MBA/2010		
Active Registration Number/State/Expiration Date	PE#29901/LA/3-31-2026		
Year Registered	2002	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Discipline Lead - Transportation Management Plans | **Meets MPR 5**		

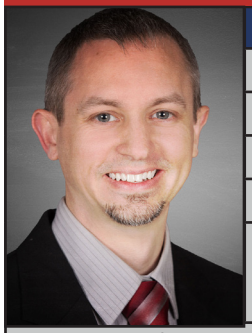
Laurence will oversee the development and implementation of comprehensive transportation management plans. He will coordinate with various stakeholders to ensure smooth traffic flow, minimize disruptions during construction, and enhance overall transportation safety and efficiency. By integrating traffic analysis and strategic planning, Laurence will ensure that all projects meet regulatory requirements and achieve project objectives.

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-Ongoing	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided peer review for the traffic studies for Ben Hur Road and Lee Drive.
06/23-Ongoing	**H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support** Laurence is a member of the team to develop new policies and legislation related to C/AV.
04/18–12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA)** **Quality Control.** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18–12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish, LA)** **Quality Control.** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20–09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** **Project Manager.** Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
01/23–02/24	**H.011504 Alexandria ITS Phase 2** **Project Manager.** Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
10/21–03/22	**H.013256.5 I-10 ITS Scott to Lake Charles** **Lead Traffic Engineer.** Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.

Laurence Lambert resume continued

09/18–02/19	**H.013261.1 I-110 ITS Deployment Systems Engineering Analysis** **Project Manager.** 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.
09/16-04/17 SECTION 17 PROJECT	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** **Lead Traffic Engineer.** Laurence was the lead traffic engineer for a DOTD traffic study for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative. **This project included complex urban highway design as required in MPR 5.**
07/16-01/17	**FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users (Norfolk, VA)** At the request of the FHWA division office for Virginia, Laurence was asked to peer review a set of design plans for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
04/04-09/06	**Stage 0 I-10 at Pecue Lane Interchange Justification Study (Baton Rouge, LA)** **Lead Traffic Engineer.** Laurence was the lead traffic engineer for a Stage 0 traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC TransCAD model growth rates. Using HCS, Laurence analyzed signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS. **This project included complex urban highway design as required in MPR 5.**
03/10- 1/11	**S.P.#700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA)** **Project Manager.** This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the Stage 0, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs). **This project included complex urban highway design as required in MPR 5.**

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Andrew Eagle, PE, PTOE**			Years of Relevant Experience with this Employer	10
Title	Senior Traffic Analysis & Modeling Project Manager			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#036792/NC/12-31-2024 | PE#28909/SC/6-30-2024 | PE#35983/GA/12-31-2024		
Year Registered	NC - 2010 SC - 2011 GA - 2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic Planning and Modeling			

For these contracts, Andrew will develop and use models to analyze and predict traffic patterns and volumes. He will design strategies to improve traffic flow, reduce congestion, and enhance safety. By integrating data analysis and predictive modeling, he will provide insights and recommendations that will inform transportation planning and decision-making, ensuring efficient and effective traffic management. Andrew's experience includes various traffic engineering, planning, and design tasks in the areas of comprehensive transportation planning, traffic forecasting, traffic modeling, and traffic impact studies. In addition to traffic impact studies, he has experience in capacity analysis, traffic simulation, roundabout analysis, interchange analysis, signal warrant analysis, and signal timing.

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).
05/22 - Ongoing	**NCDOT U-5821, NCDOT, Gaston County, NC** **Project Manager.** Andrew provided a traffic analysis report to support the widening of New Hope Road to 3-lanes in Gaston County, NC.
06/18 - Ongoing	**NCDOT U-6031 (Charlotte Avenue Widening), NCDOT, Union County, NC** **Project Manager.** Andrew provided a traffic analysis report to support the widening of Charlotte Avenue in Monroe, NC.
04/18 - 02/19	**Springhaven Development, City of Gastonia, Gaston County, NC** **Project Manager.** Andrew provided a traffic impact study for a 119 single family detached home development in Gastonia, NC. The study included documenting 85th percentile speeds on study roadways, inclusion of trips from approved developments, preliminary review of driveway sight distances, and signal warrant analysis.
05/17 - 06/18	**Presley Subdivision, City of Gastonia, Gaston County, NC** **Project Manager.** Andrew prepared a traffic impact study for a mixed-use site that includes 719 single family detached homes in Gastonia, NC. The study involved inclusion of trips from an approved development, preliminary review of driveway sight distances, and signal warrant analysis.
11/18 - 02/19	**Northern Regional Recreation Center, Town of Cornelius, Mecklenburg County, NC** **Project Manager.** Andrew prepared a traffic impact study for a 100,000 square foot recreation center in Cornelius, NC. The proposed site driveway was analyzed as a full-access unsignalized intersection, a single-lane roundabout, and a left-over intersection.
01/18 - Ongoing	**NCDOT U-5773, NCDOT, Cabarrus County, NC** **Project Manager.** Andrew provided transportation engineering services to support the widening of NC 3 in Concord, NC.
03/15 - 02/16	**Concord Airport Business Park Phase 2, Concord Airport Business Park, Concord County, NC** **Project Manager.** Andrew prepared a traffic impact study for a commercial development located along the east side of Derita Road, north of Aviation Boulevard in Concord, NC. The site is expected to consist of a 108,000 square foot industrial warehouse and a 28,350 square foot shopping center.

Andrew Eagle resume continued

10/16 - 8/17	**Liberty Prep Christian Academy, Liberty Prep Christian Academy, Iredell County, NC** **Project Manager.** Andrew prepared a traffic impact study for the proposed Liberty Prep Christian Academy to be located along the east side of Midway Lake Road south of Faith Road in Mooresville, NC. The school is expected to have an enrollment of 460 students.
03/21 - 06/21	**Steele Creek Road Hospital, NCDOT and CDOT, Mecklenburg County, NC** **Project Manager.** Andrew prepared a traffic impact study for a mixed use development located east of Steele Creek Road, and south of I-485 in Charlotte, NC. The development includes 525 dwelling units, 340,000 square feet of hospital, 1,255,200 square feet of offices, 76,000 square feet of retail/restaurants, and a gas station with 12 fueling positions. The study included analysis of 12 intersections, along with an NCDOT project, a CDOT project, and three adjacent developments.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Grady Vaughan, PE, PTOE, PTP**			Years of Relevant Experience with this Employer	1
Title	Traffic Analysis and Modeling Lead			Years of Relevant Experience with Other(s) Employers	9
Degree(s)/Years/Specialization			BS/2014/Civil & Environmental Engineering		
Active Registration Number/State/Expiration Date			PE#040206017/VA/05-31-2025 | PE#051085/NC/12-31-2024 | PE#38742/SC/06-30-2026		
Year Registered	VA - 2019 NC - 2020 SC - 2021	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic Impact Studies, Feasibility Studies			

For these contracts, Grady will assess the potential effects of proposed developments on the transportation network. He will analyze traffic patterns, forecast future conditions, and evaluate the feasibility of various project alternatives. By providing data-driven insights and recommendations, Grady will help ensure that projects are viable, efficient, and minimize adverse impacts on traffic flow and safety. Grady has been a part of multidisciplinary teams assisting private and public developers in addressing transportation issues and concerns. his experience specifically includes traffic impact studies, site planning and feasibility studies, crosswalk studies, signal warrant studies, speed studies, parking analyses, and master plan design.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/17 - 08/19	**Dash In At Gateway Village, VDOT, Loudoun County, VA** **Senior Associate.** Grady completed a traffic impact study for the proposed 6,300 SF carry-out-only style restaurant and convenience store with a 17 vehicle pump gas station. Our team provided in-depth analysis of the site access including justification for the proposed site access to both DTCI and VDOT staff during review of the project.
04/14 - 06/22	**Dominion Square East and West, VDOT, Fairfax County VA** **Senior Associate.** The Dominion Square East and West properties are approved Transit-Oriented Developments (TOD) that will include a mix of approximately 4,250,000 square feet of office, residential, retail, and hotel uses immediately south of the Silver Line's Spring Hill Metrorail station. Grady was a key player in assessing the transportation impacts of this development, including impacts on pedestrian, vehicular, bicycle and transit systems. He conducted a comprehensive study of a number of on- and off-site intersections, including both existing and future grid streets. As part of a larger multidisciplinary team, Grady also collaborated on other aspects of the project including coordinating with adjacent properties to determine feasible improvements and grid connections based on project buildouts and securing several critical waivers and exceptions from the Virginia Department of Transportation.
05/17 - 10/19	**North and West Spring Hill Station, VDOT, Fairfax County, VA** **Senior Associate.** The North and West Spring Hill Station properties are approved Transit-Oriented Developments (TOD) that will include a mix of approximately eight new buildings, four new parks, and a sports deck for entertainment atop a building. Grady was a key player in assessing the transportation impacts of the proposed 2.75M SF of development, including impacts on pedestrian, vehicular, bicycle and transit systems. As part of a larger multidisciplinary team, Grady also collaborated on other aspects of the project including coordinating with adjacent properties to determine feasible improvements and grid connections based on project buildouts and securing several critical waivers and exceptions from the Virginia Department of Transportation.

Grady Vaughan resume continued

05/16 - 11/18	**The Arden Roundabout Justification, VDOT, Fairfax County, VA** **Senior Associate.** Grady led a team to analyzed and justify four proposed roundabouts for the Arden development located on the north side of Route 7, east of Towlston Road. The roundabout would serve a 102 single family home neighborhood. In addition, a Crosswalk Study was completed for the installation of high visibility crosswalks on each leg of the proposed roundabouts. The study was approved in two phases by VDOT in November 2018.
06/17 - 04/19	**Art Place at Fort Totten, DDOT, Washington, DC** **Senior Associate.** Grady provided an updated analysis for a First Stage amendment and Second Stage PUD application for Lot B of the site. Lot B was amended to be redeveloped with a mixed-use program including multi-family residential units (market rate dwelling units and artist housing units with workspace), family entertainment uses, and retail uses (including a ground level grocery store). The Project represents a significant investment in cultural, artistic and educational programming in an area of the city that is relatively under served by such programming and resources. W+A completed a Comprehensive Transportation Review (CTR) in accordance District Department of Transportation (DDOT) requirements for the PUD application. W+A completed a capacity analysis of the surrounding street network in addition to providing transportation planning services for the future grid of street serving the site. The report included an assessment of the availability and quality of the surround multimodal facilities, a loading management plan (LMP), a transportation management plan (TMP), swept-area diagrams for the loading facilities. Further, W+A analyzed the motorcoach and parking demand of the unique mix of uses and proposed functional solutions to the curbside management and underground parking facilities proposed with the site. The Zoning Commission approved the project in April 2019.
01/16 - 12/18	**West Alexandria Properties, West Alexandria Properties, Inc, Alexandria, VA** **Senior Associate.** The West Alexandria Coordinated Development District (CDD) includes approximately 2,900,000 square feet of office, residential, retail, and civic uses across two (2) small area plans along S. Van Dorn Street corridor. The properties are located approximately 1/2 mile north of the Van Dorn Metrorail station. Grady was a key player in assessing the transportation impacts of this development, including impacts on pedestrian, vehicular, bicycle and transit systems and providing solutions which appropriately shared infrastructure between all travel modes. The envisioned grid of streets analyzed under future conditions included a mix of private and public streets with varying classifications and a future multimodal bridge connection from the site to the Van Dorn Metrorail station focused on reducing vehicle trips in the area. Grady conducted comprehensive capacity and VISSIM analysis for a number of on- and off-site intersections including the incorporation of future BRT routes on S. Van Dorn Street and Duke Street.
06/18 - 10/20	**Watson Street Residential, KGD Architecture, Fairfax County, VA** **Senior Associate.** Watson Street Residential proposed to rezone a site with an approximately 320,000 SF multifamily residential building comprised of 250-units and ground floor retail/civic uses. Grady led the effort to complete the transportation analysis of the development, including a waiver of adjacent intersection level of service in exchange for enhanced TOD site features. Grady also led the design and location of a multimodal off-site grid street including negotiations with staff and other project stakeholders.
07/15 - 04/20	**Inova Loudoun Hospital, Loudoun Hospital, Loudoun County, VA** **Senior Associate.** Grady led a team in analyzing the growth of the nearly 50 acre medical facility. A traffic impact study was completed including an assessment of the capacity impacts of the expansion of the medical facilities on the surrounding roadway network. Our team provided recommendations on access schemes, traffic control at each driveway including lane use and traffic signal control, parking structures, on-site circulation, and emergency vehicle routing. The analysis included an evaluation of the growth throughout Loudoun County and nearby capacity improvements including Route 50 interchange projects.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Lisa Moon, PE**			Years of Relevant Experience with this Employer	9
Title	Traffic Group Leader			Years of Relevant Experience with Other(s) Employers	23
Degree(s)/Years/Specialization			BS/1991/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#022516/NC/12-31-2024 | PE#0402046356/VA/06-30-2025 | PE#42236/GA/12-31-2024		
Year Registered	NC - 1997 VA - 2009 GA - 2017	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic/TMP			

For these contracts, Lisa will focus on traffic management planning (TMP) to ensure efficient and safe traffic flow during construction activities. She will develop and implement strategies to minimize disruptions, manage detours, and enhance safety for both workers and the public. By coordinating with project teams and stakeholders, Lisa will ensure that the TMPs meet regulatory requirements and project objectives. Lisa has managed projects for numerous state Departments of Transportation and municipalities for 31 years. Throughout her career, Lisa has obtained experience in all aspects of traffic engineering and has been involved in the design of over 1,200 traffic signals, intelligent transportation system (ITS) design for seven citywide signal systems upgrades, arterial closed-loop traffic signal systems, traffic control, signing and pavement markings, and highway-rail grade crossing signals. She has also prepared several studies, including traffic impact analysis reports, traffic analyses for safety recommendations, traffic mitigation studies, and highway-rail crossway safety studies.

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).
04/16 - 10/18	**W-5601 NC 75 and River Road, WSP | Parsons Brinckerhoff, Inc. for NCDOT, Union County, NC** **Traffic Project Manager and Engineer of Record** responsible for quality control and completion of the traffic control plan package for this intersection. DRMP prepared transportation management plans for the construction of a roundabout with an adjacent left-over to improve the operations and safety of the intersection of NC 75 with Rocky River Road. The plans included management strategies to reduce the impact of the project on the surrounding areas and to contain project costs and the associated traffic control plans that show the implementation of those strategies for this project. Road closures with concurrent intermediate contract times were used to limit roadway user costs. Detour routes were defined and signed to limit cost, but allow direction for re-routed traffic.
05/16 - Ongoing	**R-5711 Flower House Road PDEA, NCDOT Division 12, Iredell County, NC** **Traffic Task Manager** responsible for quality control of the traffic engineering task for the construction PS&E package. DRMP is currently preparing the construction package for this project. The project is for the realignment of Flower House Loop. The realignment of US 21 intersection with Houston Road (SR 2375) and Flower House Road (SR 1312), to form a single signalized intersection along US 21 in Iredell County. The traffic engineering tasks include the work zone traffic control, signing, pavement marking, a new traffic signal design and an extension of the existing signal communications network. Work zone traffic control plans include phased construction with detour routes, a temporary access for a business and locations with significant amounts of wedging.

Lisa Moon resume continued

04/14 - 12/19	**N. Sharon Amity Sidewalk Project, City of Charlotte, Mecklenburg County, NC** **Traffic Task Manager** responsible for completion of the traffic control plans for this project. DRMP began this project in the planning phase to assist the City of Charlotte with improved pedestrian mobility and vehicle traffic management along the roadway corridor. DRMP is responsible for planning, design and construction support for this project that fills a critical gap in sidewalk (1710-LF/0.32 mi) along a high-volume thoroughfare (Tangle Drive to Delane Avenue) flanked by established single family residential homes on either side. Our team is providing the design and full details (slopes, elevations, offsets, etc.) for eight proposed ADA compliant curb ramps following PROWAG. We were heavily involved with both survey and utility coordination with the City of Charlotte and subconsultants. Our team utilized corridor modeling software to design curb ramp and sidewalks and prepare accurate cross section details. DRMP was responsible for planning, public engagement, alternatives analysis, preliminary and final plans, construction contract documents, bidding support and construction support.
08/16 - 12/21	**Kilborne Drive Streetscape Project, City of Charlotte, Mecklenburg County, NC** **Traffic Task Manager** responsible for quality control of the traffic control, signing and pavement marking PS&E package. The Kilborne Drive Streetscape project was selected as one of the projects to move forward under the Central/Albemarle/Shamrock CNIP. Project limits are from Havenwood Road to Eastway Drive. With additional improvements to create a more complete street, Kilborne Drive will provide a critical connection between Central Avenue and Eastway Drive, allowing better access to Kilborne Park and future access to the planned Briar Creek Greenway, where it will cross Eastway Drive. The project goals are to maintain, stabilize and revitalize the neighborhood through comprehensive infrastructure improvements; to strengthen the neighborhood and surrounding community; and to better serve bicyclists, pedestrians, motorists and adjacent neighborhoods and businesses. DRMP was involved in the planning and design for this project. Design services included roadway, traffic control, signing and pavement marking, drainage and erosion control.
01/14 - 02/18	**W-5520 US 74 Superstreet Conversion, NCDOT Division 10, Union County, NC** **Traffic Engineer** for this project, funded through NCDOT's Spot Safety Program, that will convert all full movement, signalized intersections along US 74 between Indian Trail Fairview Road and Wesley Chapel Stouts/Sardis Church Road to a superstreet configuration. The intersections to be converted include US 74 at Indian Trail Fairview Road, US 74 at Unionville Indian Trail Road, US 74 at Faith Church Road and US 74 at Sardis Church/Wesley Chapel Stouts Road. The project scope includes work zone traffic control, signing and pavement marking, hydraulics, erosion control, location surveys, traffic signal design, utility coordination and design and subsurface utility engineering.
11/17 - Ongoing	**Project Hercules, Burton Engineering, Cabarrus County, NC** **Project Manager** responsible for traffic engineering design that included coordination, preparation of plans, specifications and engineers estimate. DRMP prepared construction design plans and estimate of quantities for work zone traffic control, signal, signing and pavement markings for the Hercules project in Kannapolis. The project included improvements along NC 73, Kannapolis Parkway and Macedonia Church Road. Signal design included two signal revisions and one new signal, along with signal communications design for the signals along NC 73.
10/13 - 04/15	**NCDOT TMS 13, U-3338B, Kerr Avenue Widening Transportation Management Plans, NCDOT, City of Wilmington, New Hanover County, NC** **Project Manager, Lead Engineer and Engineer of Record** for preparation of transportation management plans. Atkins prepared the Transportation Management Plans, along with quantities and Project Special Provisions, for a significant arterial in Wilmington, North Carolina. The widening project included incorporation of quadrant lefts for the main intersection of US 17 Business, a major arterial, at Kerr Avenue. The project was 1.64-miles long in an urban area and included temporary signal designs, construction staging to maintain drainage while transferring from the existing closed drainage system to the proposed closed drainage system, installation of large drainage pipes, significant areas of wedging that will need to be done under traffic and the maintenance of pedestrian features during the life of the project.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Carlos Martinez, PE**			Years of Relevant Experience with this Employer	31
Title	Traffic Chief Engineer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/1992/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#51429/FL/02-28-2025 | PE#35309/NC/12-31-2024		
Year Registered	FL - 1997 NC - 2009	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Traffic Design - Alternative Delivery, Major Projects		

For these contracts, Carlos will develop and implement traffic designs for large-scale projects using alternative delivery methods. He will focus on optimizing traffic flow, safety, and efficiency while coordinating with multidisciplinary teams to ensure compliance with regulatory standards and successful project execution. By leveraging innovative design approaches and collaborative strategies, Carlos will contribute to the timely and cost-effective completion of major transportation projects. Carlos is responsible for the preparation of traffic engineering design plans and developing various types of traffic engineering studies, along with project management tasks and quality assurance/quality control reviews. His experience in traffic engineering design includes signing and pavement marking, signalization, lighting, and intelligent transportation systems for a variety of projects, from minor intersection improvements to major roadway construction and limited access facilities.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Engineer of Record** for signing and pavement marking design for the design of a limited access toll road starting from Orange Boulevard to the east of Rinehart Road. This $263.3 million project includes a new system-to-system interchange that connects I-4, SR 417, and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams, and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling, and surcharge areas to consolidate deep muck.
06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Engineer of Record** responsible for the signing and pavement markings for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.

Carlos Martinez resume continued

11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **Engineer of Record** for signing and pavement marking design for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics and geotechnical services.
05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), The Lane Construction Corporation for Central Florida Expressway Authority, Osceola County, FL** **Engineer of Record** for signing and pavement marking and signalization design for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics and geotechnical services.
04/18 - 02/20	**SR 528/SR 436 Interchange Improvements and SR 528 Widening from SR 436 to Goldenrod Road (Contract#528-143), Central Florida Expressway Authority, Orange County, FL** **Engineer of Record** for the signing and pavement marking design for the reconstruction of the SR 528/SR 436 interchange and widening of SR 528 from 4-lanes to 6-lanes with an auxiliary lane eastbound to Goldenrod Road and westbound to Conway Road. This project includes construction of seven new bridges using a mix of steel box girders and concrete Florida-U Beams as well as the replacement of one box culvert. This project also involved extensive coordination with the Greater Orlando Aviation Authority and the Federal Aviation Administration as this interchange serves as the north entrance and exit to the Orlando International Airport. Other project design elements included complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems and geotechnical analysis.
04/15 - 03/16	**SR 528 (Beachline) Widening from Florida's Turnpike to McCoy Road (MP 4.3-8.4), Florida's Turnpike Enterprise, Orange County, FL** **Signing and Pavement Marking Engineer of Record** for this $32 million project for the widening into the median of 4.2 miles from six-lanes to eight-lanes. Plans included roadway, drainage, bridge widenings (Florida's Turnpike, US 441 and Landstreet Road) as well as modifications to the existing toll gantry/cash toll plaza, signing and pavement markings, maintenance of traffic, lighting, intelligent transportation systems, environmental permitting and surveying.
01/13 - 03/13	**Suncoast Parkway Emergency Flood Repair, Florida's Turnpike Enterprise, Hernando County FL** **Engineer of Record** responsible for signing and pavement marking design in support of preparation of construction plans to expand ponds and analysis to develop a long term solution for eliminating flooding at the northern end of the existing Suncoast Parkway. The parkway experienced flooding of the shoulders in 2004 and complete closure of all lanes in 2012. The construction plans included work to raise the profile 10-feet, expand an existing pond just south of US 98, stockpiling of dirt and environmental work for gopher tortoises and permitting. The limits of the project extended from the existing landfill bridges to US 98 a distance of one mile. The project also included preparation of a drainage report and stormwater modeling to evaluate long term solutions, roadway, maintenance of traffic, signing and markings, lighting and intelligent transportation system plans. Plans were produced and signed and sealed in a three month time frame.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Nick Devito, PE**			Years of Relevant Experience with this Employer	18
Title	Area Traffic Group Leader			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2005/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#78448/FL/02-28-2025 | GA#041853/GA/12-31-2024		
Year Registered	FL - 2015 GA - 2017	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic Design - Tolling/ITS Implementation			

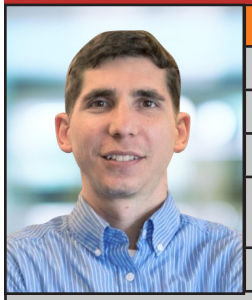
For these contracts, Nick will focus on integrating tolling systems and intelligent transportation systems (ITS) into roadway designs. He will develop strategies to optimize traffic flow, enhance safety, and improve revenue collection through advanced technologies. By coordinating with multidisciplinary teams and ensuring compliance with regulatory standards, Nick will facilitate the effective implementation of tolling and ITS solutions, contributing to efficient and modernized transportation infrastructure. Nick's experience in traffic engineering design includes signing and pavement marking, signalization, lighting, intelligent transportation systems (ITS), electrical design, traffic studies, and signal re-timing. He is currently responsible for engineering analysis, design, and project management. He has provided traffic design services for projects ranging from continuing service contracts as well as minor intersection improvements to major roadway construction and limited access facilities.

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).
11/20 - Ongoing	**SR 516 (Lake Orange Expressway) from Orange/Lake County Line to SR 429 (Segment 3) (Contract#516-238), Central Florida Expressway Authority, Orange County, FL** **ITS Engineer of Record** for this new systems interchange connecting SR 429 to SR 516, a new 4-lane limited access toll facility that extends to US 27. This interchange includes five new bridges, with two using concrete Florida-U Beams and three using steel box girders and four bridge widenings, where three are using Florida-I Beams and one is using steel I-girders. This project also includes two miles of roadway improvements along SR 429, which includes widening, adding ramps and milling and resurfacing of the remaining existing roadway, a new dual teardrop roundabout at the interchange with Valencia Parkway, permitting with FDEP and SFWMD, coordination with Orange County, Lake County, and local landowners, drainage, intelligent transportation systems, lighting, signing and pavement markings, tolling, aesthetics, and geotechnical services.
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **ITS Engineer of Record** responsible for traffic design and ITS plans production from south of US 98 to south of West Grover Cleveland Boulevard for a new approximately nine miles of roadway and the interchanges with US 98 and Cardinal Road. The overall project is a new limited access all-electronic tolling facility to extend the Suncoast Parkway. The complete design included plans for roadway, drainage, bridge, intelligent transportation systems, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. Overall, ITS Concept of Operations, design and plans included new gigabit Ethernet communications with supporting field installations of dynamic message signs (mainline and arterial), CCTV Camera sites, vehicle detection systems, travel time systems (RFID and bluetooth) and highway advisory radio systems. Work included designing electrical services with automatic transfer switches and permanent generator backup for all field devices. Wiring and fiber splicing diagrams, equipment details and specifications were developed as part of this project.

Nick Devito resume continued

06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **ITS Engineer of Record** responsible for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), The Lane Construction Corporation for Central Florida Expressway Authority, Osceola County, FL** **ITS Engineer of Record** for this $94.4 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.
07/15 - 01/18	**System wide Wrong-Way Detection (Contract#599-526C), Central Florida Expressway Authority, Orange County, FL** **Project Manager and Engineer of Record** for an innovative system-wide wrong-way detection ITS project. The project consisted of the deployment of a Wrong-Way Detection System at 15 off-ramp locations and 10 mainline locations on the CFX roadway network. The project included product research, vendor coordination, development of specialized details for the installation, wiring, grounding and networking of the rapid flashing beacons and associated local hubs.
08/20 - Ongoing	**SR 408/Tampa Avenue Interchange (Contract#408-315), TLP Engineering for Central Florida Expressway Authority, Orange County, FL** **ITS, Tolls and Electrical Engineer of Record** for the SR 408/Tampa Avenue interchange modification from a half-diamond to a full diamond, with roundabouts at ramp terminals and widening of eastbound SR 408 from John Young Parkway to Orange Blossom Trail to 4-lanes. DRMP was responsible for the design of a new westbound ramp bridge over Rio Grande Avenue using Florida-U beams, the widening of eastbound SR 408 over Rio Grande Avenue using Florida-I beams and the associated walls. The ITS design and plans consisted of a new gigabit fiber network with supporting ITS devices, including Wrong-Way Driving Detection, CCTV, DCS, and TMS and tolling communications. It also included maintenance of communication plans to maintain end to end connectivity and device uptime during construction. All Electronic Toll ramp toll site design was completed along SR 408 for two interchange ramps (westbound off-ramp to Tampa Avenue and eastbound on-ramp from Tampa Avenue. Surveying services included design survey, right-of-way mapping and subsurface utility engineering. The design survey was performed using a combination of Mobile LiDAR, GPS and conventional survey methods.

16. STAFF EXPERIENCE:



Firm Employed By: Horrocks					
Name	**Aaron Littman, PE, PTOE**			Years of Relevant Experience with this Employer	4
Title	Senior Transportation Traffic Engineer			Years of Relevant Experience with Other(s) Employers	21
Degree(s)/Years/Specialization			BS/1999/Civil and Environmental Engineering		
Active Registration Number/State/Expiration Date			PE#72693/AZ/3-31-2027 | PE#028327/NV/12-31-2025 | PE#68714/OH/12-31-2025 | PE#12066282-2202/UT/3-31-2025 | PTOE#7101/TPCB/11-17-2026		
Year Registered	2003	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic Design - Alternative Delivery, ITS, Vissim Modeling			

For these contracts, Aaron will focus on integrating intelligent transportation systems (ITS) and utilizing Vissim modeling within alternative delivery methods such as design-build. He will develop strategies to optimize traffic flow, enhance safety, and improve project efficiency through advanced technologies and simulation modeling. By collaborating with multidisciplinary teams and ensuring compliance with regulatory standards, Aaron will facilitate the successful implementation of innovative traffic design solutions, contributing to the modernization of transportation infrastructure. Aaron brings more than 25 years of experience in traffic engineering and ITS to the Horrocks team, having managed and designed projects across the country. His project experience consists of various corridor and intersection safety studies, the design of centralized traffic signal systems, innovative intersection and interchange concept development, rail crossing studies and design, parking and traffic impact studies, GIS integration and development, traffic modeling, and the development of ITS strategies. Aaron's extensive experience in traffic engineering and safety analysis makes him a valuable asset to any project team he is a member of. He believes that consistent and regular communication, while working as an extension of the client's project team, is key to the success of every project.

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	**The Point Redevelopment, Draper, UT** **Senior Traffic Engineer.** Aaron is responsible for review of the traffic signals and completing the Vissim modeling for the project. This is a redevelopment of the former Utah State Correctional Facility 600-acre site into a pedestrian friendly, mixed-use community development.
04/24 - Ongoing	**SR-201 at 3200 W MOT Study, Salt Lake County, UT** **Senior Traffic Engineer.** Aaron is the traffic engineer and is completing the Vissim modeling and report for the project.
02/22 - 06/23	**I-15; 5600 South Progressive Design-Build, Weber County, UT** **Senior Traffic Engineer.** Aaron is responsible for microsimulation modeling of various alternatives (using Vissim) and preparation of the final Interchange Access Change Request (IACR). This project is located on I-15 and SR-97 within Roy and Riverdale City. This is an interchange reconstruction and SR-97 (5600 South) widening project to reduce congestion and improve safety from I-15 west to SR-108. The major items of work include a new interchange with multiple structures, road widening (including widening an existing structure over railroad), intersection improvements, trail systems, utilities, drainage, ROW, and Hill Air Force Base coordination.
06/18 - 04/24	**Summerlin Parkway CC215 Interchange. Las Vegas, NV** **Lead Traffic Engineer.** Aaron is responsible for the signing, as well as advising and reviewing the ITS design for the project. Horrocks is providing the final design for this project which addresses undesirable traffic weaving and will provide direct and semi-direct free flowing movements between CC-215 Western Beltway and Summerlin Parkway. This is accomplished by constructing braided ramps and eliminating all existing signalization, with the exception of the NB/WB movement which will be signalized in a High-T intersection configuration. Work includes the design of roadways, structures, retaining walls, drainage, utilities, SUE, traffic analysis, signing, and striping.

Aaron Littman resume continued

11/21 - 02/24	**SR 147 - Lake Mead Boulevard, North Las Vegas, NV** **Senior Traffic Engineer.** Aaron is responsible for design and preparation of plans for traffic signals, rapid rectangular flashing beacon (RRFB) pedestrian crossings, and signage. This project, which includes sign and striping replacement, lighting, traffic signals, Americans with Disabilities Act (ADA), and safety improvements, is located on Lake Mead Boulevard from Pecos Road to 2.36 miles east of the urban limit in Clark County, NV
06/21 - 12/22	**I-15 Davis County; 600 North to Farmington, Farmington, UT** **Senior Traffic Engineer.** Aaron is responsible for microsimulation modeling of various alternatives (using Vissim). This project will repair aging infrastructure, redesign interchanges to accommodate traffic, and provide facilities for active transportation users.
02/22 - 07/23	**Boulder City Pkwy Complete Streets Phase 2, Boulder, NV** **Senior Traffic Engineer.** Aaron is responsible for coordinating the development of travel demand volumes, traffic and alternative analysis using Synchro and HCS, predictive crash analysis, and preparation of a traffic and safety report. Horrocks was selected to prepare concept plans, landscape renderings, and engineering design plans for Boulder City Parkway from the Nevada Way and Buchanan Boulevard intersection to the eastern city limits.
12/21 - 03/22	**City of Delaware (Ohio) Signal Services, Delaware, OH** **Project Manager.** Aaron was responsible for project management, design review, and traffic signal timing development. Horrocks was selected by the City of Delaware to provide review services for traffic and intelligent transportation system (ITS) plans on critical projects and develop optimized traffic signal timing plans. Our firm's work will include traffic tasks on the City's "Point" project that involves widening the Norfolk Southern Railroad bridge over US 36 and SR 37, which will relieve congestion and increase safety for users.
02/19 - 06/21	**Nevada State Drive, Henderson, NV** **Senior Traffic Engineer.** Aaron was responsible for roundabout design review and he was involved in the interchange traffic modeling and analysis. Horrocks is currently designing Nevada State Drive between I-515 and Paradise Hills Drive. As part of the preliminary design, the use of roundabouts at the intersections of Conestoga Way, Compassion Street, and Paradise Hills Drive were evaluated as potential design options. Survey and traffic information was used to analyze the potential roundabout layouts and determine the ultimate alignment of Nevada State Drive in order to define the final rights-of-way.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Reece Rodrigue, PE, PTOE, RSP1**			Years of Relevant Experience with this Employer	4
Title	Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS/2013/Civil Engineer		
Active Registration Number/State/Expiration Date			PE#42074/LA/3-31-2026		
Year Registered	2017	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic Design - Autonomous Vehicle Policies, SEAs			

For these contracts, Reece will focus on developing policies and conducting assessments to address the integration of autonomous vehicles into transportation systems. He will analyze the potential impacts of autonomous vehicle deployment on traffic flow, safety, and the environment. By collaborating with stakeholders and leveraging data-driven insights, Reece will inform the development of policies and strategies to ensure safe and efficient autonomous vehicle operations while minimizing adverse effects on the transportation network and the environment.

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	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** **Project Engineer.** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
06/23-Ongoing	**H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support** Reece is a member of the team to develop new policies and legislation related to C/AV.
06/23-Ongoing	**H.011507.1 Monroe Phase 3 SEA** Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.
07/21-Ongoing	**H.007160 - EBR Computerized Traffic Signal, Phase VB, 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.
01/23–02/24	**H.011504 Alexandria ITS Phase 2** **Project Engineer.** Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.
04/20-Ongoing SECTION 17 PROJECT	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Belle Chasse, LA** Reece is 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. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan that was also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.

Reece Rodrigue resume continued

01/21–05/21	**H.013256 - I-10 ITS Scott to Lake Charles, 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.
09/20–12/21	**H.011909.5-4 Roundabout: US 171 at Boone St., Vernon Parish, LA** **Design Engineer.** 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	**H.010960.5 LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA** **Design Engineer.** Reece is a design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the 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.
11/21–12/21	**Emergency Street Light and Traffic Sign Assessment, New Orleans, LA** In response to the damage caused by Hurricane Ida, Reece inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area.
02/20–09/21	**College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA** **Task Leader.** Reece was the task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts
07/19–12/19	**Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA** Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16-12/16	**H.005733.5 US 190 Superstreet Task Order, St. Tammany Parish, LA** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16–11/17	**Ochsner Main Campus Traffic Signals, Jefferson Parish, LA** Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Kristen Farrington, PE, PTOE, RSP1**			Years of Relevant Experience with this Employer	2
Title	Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS/2013/Civil Engineer		
Active Registration Number/State/Expiration Date			PE#42074/LA/3-31-2025		
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic Design - Safety and Planning Studies			

For these contracts, Kristen will conduct comprehensive studies to assess traffic safety, and aid transportation planning. She will analyze traffic patterns, identify potential hazards, and recommend safety improvements such as signage, signalization, and roadway modifications. By integrating data analysis, and strategic planning, Kristen will enhance traffic safety and optimize transportation infrastructure to meet the needs of communities while ensuring regulatory compliance and adherence to best practices in the industry.

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	**CP#16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** **Project Engineer.** Kristen a project engineer for a traffic design study and traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
08/21–04/22	**H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study (Baton Rouge, LA)** **Project Engineer.** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting vehicular speed and volume data at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area.
02/20–09/21	**MOVEBR College Drive Enhancement Project (Baton Rouge, LA)** Kristen assisted with the data collection task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian/bicycle counts, and weaving counts.
6/19-2/21	**H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street (St. Landry Parish, LA)** **Project Manager.** Kristen served as project manager for a Stage 0 study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.

Kristen Farrington resume continued

6/19-2/21	**H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road (Evangeline Parish, LA)** **Project Manager.** Kristen served as project manager for a Stage 0 study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
04/19–6/21	**H.013817.1 LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA)** **Project Engineer.** Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the Stage 0 report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met.
03/19–11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA)** **Task Leader.** Kristen was the task leader for the preparation of a Stage 0 study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18-3/21	**H.013322 LA 3040 Feasibility/Safety Study Stage 0 (Houma, LA)** **Project Engineer.** Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18–04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish, LA)** **Project Engineer.** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.

STAFF EXPERIENCE:

Group 6 - Geotechnical & Pavement Design Team

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman & Associates, Inc.					
Name	**Megan Bourgeois, PE**			Years of Relevant Experience with this Employer	18
Title	Project Engineer/Assistant Branch Manager			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#36725/LA/03-31-2026		
Year Registered	2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Materials Sampling and Testing | **Meets MPR 9**		

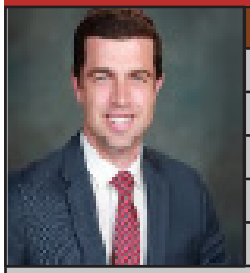
For these contracts, Megan will oversee the sampling and testing of materials used in transportation projects. She will establish protocols for collecting samples, conduct quality control assessments, and ensure compliance with specifications and standards. By coordinating with project teams and laboratory personnel, Megan will ensure that materials meet quality requirements and contribute to the successful completion of infrastructure projects. Megan brings over 14 years of expertise in geotechnical engineering, with a focus on shallow foundation design, embankment settlement analysis, and foundation analysis including piles and drilled shafts. She is well-versed in LRFD design, slope stability analysis, pipeline and pump station recommendations, geotechnical instrumentation, and construction phase testing. Megan has managed numerous geotechnical investigations and design evaluations, overseeing laboratory testing programs and serving as Ardaman's program manager for LADOTD projects in Louisiana. Additionally, she serves as the director of the geotechnical engineering laboratory in Baton Rouge, supervising staff, ensuring testing protocols are followed, maintaining laboratory certifications, and providing training materials.

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).
10/09 - Ongoing SECTION 17 PROJECT	**SP#H.004646.5 | I-20 Mississippi River Bridge Review: Vicksburg, MS** **Project Manager.** Megan manages this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating the movement of the I-20 Bridge in Vicksburg, Mississippi. She managed a highly technical team including academia, outside experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction for the determination of mineralogy, x-ray scanning of unextruded samples to identify existing shearing planes, stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation for this project including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. In addition, Megan performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures, and developed technically feasible solutions. She co-authored the geotechnical analysis and design report. Currently, she is managing a phase of the project that included upgrading the entire instrumentation communication system and will be monitoring this system continuously.
10/18- 06/21	**SP#H.000263 | Chef Menteur Pass Bridge & Approach: Orleans Parish, LA** **Project Manager.** Megan managed and oversaw all aspects of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep of high flow water. Megan also managed laboratory testing program to provide geotechnical characterization data for use in design of deep foundations and embankments, oversaw the field resistivity testing program, and developed the data report.
03/19-07/20 SECTION 17 PROJECT	**SP#H.004100.5-2 | I-10 Widening (LA 415 TO Howard Street): East Baton Rouge Parish, LA** **Project Manager.** Megan managed all aspects of the geotechnical investigation in support of the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, electrical resistivity imaging along the entire alignment, laboratory testing and the preparation of a geotechnical data report.

Megan Bourgeois resume continued

04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 | Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA** **Project Engineer.** Megan leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
07/21-Ongoing SECTION 17 PROJECT	**SP#H.004100.5 | I-10: LA 415 to Essen Lane ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA** **Project Engineer.** Megan leads technical reviews pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.
07/21-01/22	**SP#H.003931 | I-10 Calcasieu River Bridge: Calcasieu Parish, LA** **Project Manager.** Megan managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. Megan also managed and oversaw the laboratory testing program, processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.
12/12- Ongoing	**SP#H.009266 | I-10 WIDENING LA 73 to LA 30: Ascension Parish, LA** **Project Manager.** Megan manages all aspects of the project that include field investigations consisting of 13 deep soil borings and 26 shallow soil borings, laboratory testing, and engineering design in support of the widening of the East and Westbound lanes and elevated structures along I-10 between LA 73 and LA 30 spanning approximately 5 miles. Megan performed analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, and pavement section recommendations; all completed according to DOTD standards.
09/20-Ongoing	**SP#H.013897 | College Dr Flyover Ramp I-10/ I-12: East Baton Rouge Parish, LA** **Project Engineer/Laboratory Director.** Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Megan assisted in review and acceptance of geotechnical services as well served as quality control and review of all acceptance verification sampling and testing during construction.
02/20-Ongoing	**SP#H004791 | Design Support Services La 23, Belle Chasse Bridge & Tunnel: Plaquemine Parish, LA** **Project Engineer/Laboratory Director.** Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Megan assisted in review and acceptance of geotechnical services as well served as quality control and review of all acceptance verification sampling and testing during construction.

16. STAFF EXPERIENCE:



Firm Employed By: Ardaman & Associates, Inc.					
Name	**Robert Jewell, PE**			Years of Relevant Experience with this Employer	17
Title	Project Engineer/Branch Manager			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2009/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#38579/LA/09-30-2024 | Traffic Control Supervisor/LA/09-25-2024		
Year Registered	2013	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Foundation Design/Geotechnical Analysis | **Meets MPR 9**		

For these contracts, Robert will supervise the planning and execution of foundation designs and geotechnical analyses for transportation projects. He will oversee site investigations, soil testing, and analysis of subsurface conditions to inform foundation design decisions. Robert manages the Baton Rouge office and serves as project manager for a variety of geotechnical engineering projects. His expertise includes analyses of pile and drilled shaft foundations, shallow foundations, and slope stability. He has coordinated numerous geotechnical field investigations, including borings and CPT soundings, and prepares design recommendation reports for LADOTD projects. Robert also has extensive experience in construction phase testing and oversight, including dynamic and static testing, pile integrity testing, settlement monitoring, and geotechnical instrumentation.

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).
10/18- 06/21	**SP#H.000263| Chef Menteur Pass Bridge & Approach, Orleans Parish, LA** **Project Engineer.** Robert helped manage and oversee all aspects of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep of high flow water. Robert also helped develop the soil boring logs and preparation of the data report.
10/18-01/19	**SP#H.003370 | I-220/I-20 Interchange Improvement And Barksdale Air Force Base Access Road, Bossier Parish, LA** **Project Manager.** Robert prepared the preliminary design and planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Robert oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring.
03/19-07/20 SECTION 17 PROJECT	**SP#H.004100.5-2 | I-10 Widening (La 415 To Howard St), East Baton Rouge Parish, LA** **Project Engineer.** Robert co-managed all aspects of the geotechnical investigation in support of the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on westbound lanes along I-10 between LA 415 and Howard Street spanning approximately one mile. The geotechnical investigation will include 58 deep borings and 11 cone penetrometer (CPT) soundings, field resistivity testing, and associated laboratory testing and the preparation of a geotechnical data report.
07/21-Ongoing SECTION 17 PROJECT	**SP#H.004100.5 | I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR), Baton Rouge Parish, LA** **Project Manager.** Robert leads all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.
09/20-Ongoing	**SP#H.013897 | College Dr Flyover Ramp I-10/I-12, Baton Rouge Parish, LA** **Project Engineer.** Robert helped oversee review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's.

Robert Jewell resume continued

02/20-Ongoing	**SP#H004791 | Design Support Services LA 23, Belle Chasse Bridge & Tunnel, Plaquemine Parish, LA** **Project Engineer.** Robert helped oversee review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's.
04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / Rural Bridge Initiative Phase II,West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA** **Project Manager.** Robert leads all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
07/21-01/22	**SP#H.003931 | I-10 Calcasieu River Bridge, Calcasieu Parish, LA** **Project Engineer.** Robert lead technical review of all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. Robert also assisted with review of the laboratory testing program, processing and analyzing of the ECPT and ER data. He also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.
07/15-Ongoing SECTION 17 PROJECT	**SP#H.004273.5 | I-49 Connector (Lafayette Regional Airport To I-10/I-49/Us 167 Interchange), Lafayette Parish, LA** **Project Manager.** Robert manages the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings. The design was for the construction of five miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. He will be the co-principal for developing the Geotechnical Investigation and Design Report to be developed for this project. In addition, he will also oversee and coordinate the Phase 2 field and laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and CPT soundings.
04/14-05/23	**SP#H.004435 | I-12 TO Bush Segment 2, LA 3241 (LA 36-LA435), St. Tammany Parish, LA** **Project Manager.** Robert oversaw and coordinated the geotechnical investigation which included drilling 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2. Assisted in developing the geotechnical analyses and design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Robert oversaw the construction phase which included dynamic testing and settlement monitoring.
10/14-12/16	**SP#H.010601.5 | I-10 Widening (E. Junction I-49 TO LA 328), St. Martin Parish, LA** **Project Engineer.** Robert oversaw and coordinated the geotechnical investigation which included 44 deep borings and 25 cone penetrometer (CPT) soundings, associated laboratory testing, and preparation of a geotechnical data report for the widening of the nine existing structures along I-10 between I-49 to LA 328 spanning approximately seven miles.
07/09-08/11	**SP#700-29-0112 | LA-1- Phase 1, Lafourche Parish, LA** **Assistant Project Engineer.** Robert served in the field as on-site geotechnical engineer during construction for this project in southeast Louisiana. He conducted dynamic monitoring using the Pile Driving Analyzer, performed CAPWAP analyses, reviewed drive logs, and supervised field technicians.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman & Associates, Inc.					
Name	**Ross McGillivray, PE**			Years of Relevant Experience with this Employer	27
Title	Senior Consultant			Years of Relevant Experience with Other(s) Employers	29
Degree(s)/Years/Specialization			BCE/1966/Civil Engineering | MS/1968/Civil Engineering (Soil Mechanics)		
Active Registration Number/State/Expiration Date			PE#17920/FL/02-28-2025		
Year Registered	1998	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Engineering Expert			

For these contracts, Ross will specialize in analyzing soil and rock mechanics to inform the design and construction of transportation infrastructure. He will conduct site investigations, soil testing, and geotechnical analyses to assess subsurface conditions and identify potential risks. Ross, a principal engineer based in Ardaman's Tampa office, offers technical expertise and consultation on a wide range of projects, including building and bridge foundations, geotechnical and materials engineering for port facilities, pavement systems, earth structures, surface mining, groundwater hydrology, and sinkhole evaluation and remediation. With a background that includes managing operations of the soil mechanics laboratory at MIT and conducting research on soil behavior and industrial waste products, Ross has extensive experience in soil mechanics and geotechnical engineering. He has worked on projects across various locations focusing on soil stability, anchor capacity evaluation, and laboratory development. With decades of experience in the industry, Ross brings a wealth of knowledge to his role at Ardaman, contributing to projects involving mining, building foundations, and bridge foundations.

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).
09/01 – 11/01	**I-10/12 Sound Walls, Wall 6-Design Lateral Load Test On Drilled Shafts/Sound Wall Shaft Cls Evaluation, Baton Rouge, LA** **Principal Engineer.** Ross performed a re-design for the drilled shafts supporting the I-10/I-12 sound wall system in Baton Rouge, LA, and performed an instrumented lateral load performance on a 48-inch diameter drilled shaft. The results of the load test compared analyses performed with Standard Penetration Test Boring Data to analyses performed with Cone Penetrometer Test (CPT) sounding data. Ross also evaluated the results of Cross-Hole Sonic Log (CSL) tests on installed drilled shafts and developed repair procedures when drilled shafts were shown to have CSL detected flaws. The repair procedures were accepted by LADOTD for the project.
7/15 –Ongoing SECTION 17 PROJECT	**SP#H.004273.5 | I-49 Connector (Lafayette Regional Airport To I-10/I-49/Us 167 Interchange), Lafayette Parish, LA** **Senior Consultant.** Ross helped review all of the geotechnical design including deep foundations, lateral load analyses, earth retaining structures in support of the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. Ross will help with review and preparation of the Phase 1 preliminary Geotechnical Design Report.
10/18 – 01/19	**SP#H.003370 | I-220 / I-20 Interchange Improvement And Barksdale Air Force Base Access Road, Bossier Parish, LA** **Senior Consultant.** Ross helped review and perform analyses of Drilled Shaft Load Tests and Static Capacity for this Design Build project consisting of direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and an interchange and access road from I-20 in Shreveport, Louisiana.
02/20-Ongoing	**SP#H004791 | Design Support Services La 23, Belle Chasse Bridge & Tunnel, Plaquemine Parish, LA** **Senior Consultant.** Ross conducted analyses of data from dynamic monitoring of pile driving using the Pile Driving Analyzer, evaluated CAPWAP analyses, reviewed drive logs, performed independent analyses of static pile capacity, and analyses of load test data. Ross also performed independent analyses for MSE Wall Stability and performed independent analyses of pile foundations for the Toll Gantry.

Ross McGillivray resume continued

5/05 – 11/05	**I-10 Bridges Over Escambia Bay: Pensacola, FL. (AAI 05-40-1149)** **Principal Engineer/Lead Geotechnical Engineer.** The I-10 bridge over Escambia Bay was damaged by Hurricane Ivan in 2004. The two bridges were three lanes, 2.6 miles long with 103 spans for each bridge. Ross worked as the Lead Geotechnical Engineer with Ardaman's Tallahassee, Florida office for the design of foundations for the replacement bridges. The project was the first project since 1972 in Florida to use 36-inch voided Prestressed Concrete Piles. The soil conditions consisted of deep, soft silt and clay sediments over loose sand underlain by medium dense to dense sand. Driving criteria were established for two different pile hammers with maximum driving energy of 150 kip-ft.-lbs. but with ram weights of 30 and 60 kips. Wave Equation Analyses and PDA/CAPWAP showed that the lighter ram hammer was marginal for production piling installation. Both Vertical and Lateral Load tests were performed for the project, with good correlation between the Vertical Load test results and the Static Capacity and PDA/CAPWAP analyses. Lateral load performance analyses showed that the soils strengths projected from Cone Penetrometer Tests were required to model the results of the load test.
6/09-2/10	**SR 686 Overpass Bridge: St. Petersburg, FL, 2009-10 (AAI 0-55-9627)** **Principal Engineer/Lead Geotechnical Engineer.** The SR 686 Overpass Bridge is 1,500 feet in length and crosses over a solid waste landfill with a slurry wall confinement and the in-situ clay stratum as a liner system. The initial foundation design by another firm consisted of 24-inch Prestressed Concrete Piles driven inside of 36-inch diameter steel casings, with the piles to be grouted into the casings. Ardaman & Associates, Inc. was asked to evaluate the foundation options and to provide an alternative foundation design for the project. Ross was the Lead Geotechnical Engineer for the project. He proposed using non-redundant drilled shafts to reduce the number of penetrations of the underlying clay stratum confining stratum. The additional foundation explorations included rock coring and Pressure Meter Testing in the intermediate geo-material (weathered limestone) underlaying the site. The results of Unconfined Compression Tests and Split Tensile tests on rock cores were analyzed with the results of the Pressure Meter Tests to optimize the design of the drilled shafts. The final design consisted of 36, 48, and 60-inch diameter drilled shafts. Two load tests were specified using the Osterberg Cell (O-Cell), each with a two-inch Styrofoam toe to allow measurement of the fully mobilized skin friction on the shaft above and below the O-Cell. Ardaman performed pilot borings at each drilled shaft for final design, and inspected the installation of all the drilled shafts for the project.
07/21-Ongoing SECTION 17 PROJECT	**SP#H.004100.5 | I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR): Baton Rouge Parish, LA** **Senior Consultant.** Ross leads technical reviews of pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.
09/20-Ongoing	**SP#H.013897 | College Dr Flyover Ramp I-10 / I-12: Baton Rouge Parish, LA** **Senior Consultant.** Ross performed reviews of project submittals and conducted analyses of provided static, bi-directional jack load test data on a drilled shaft. Provided comments regarding the locations of settlement monitoring plates for ramp fill and performed independent analyses of a sheet pile wall for the project to check the contractor's submittal. Also performed lateral load analyses for a six feet diameter drilled shaft.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman & Associates, Inc.					
Name	**Robert Rousset, PE**			Years of Relevant Experience with this Employer	18
Title	Project Engineer/Vice President, Regional Manager			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2008/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#38637/LA/09-30-2024		
Year Registered	2014	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Geotechnical QA/QC			

For these contracts, Robert will be responsible for ensuring the quality and reliability of geotechnical data and analyses for transportation projects. He will develop and implement quality assurance and quality control procedures to verify the accuracy and integrity of soil testing, site investigations, and geotechnical analyses. By conducting thorough inspections and audits, Robert will ensure compliance with regulatory standards and project requirements, ultimately contributing to the safety and success of transportation infrastructure projects. Robert serves as the manager of Ardaman's New Orleans office and as project manager for various geotechnical engineering projects as well as contract administrator of several major contracts. He has managed projects that have included pile and drilled shaft foundations, shallow foundations, static and dynamic pile testing, and slope stability. Robert has extensive experience in construction phase testing and oversight, including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation.

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).
07/14-05/18	**SP#H.004113 | I-12 to Bush Segment 3, LA Highway 3241 (LA 435 TO LA 40/LA 41), St. Tammany Parish, LA** **Project Manager.** Robert oversaw and coordinated the geotechnical investigation which included 26 soil borings, sampling, and laboratory testing along the alignment that included one bridge, LA 435 over Talisheek Creek. He oversaw geotechnical analyses and preparation of design recommendation report which included pile supported approach slabs and pile foundations for the bridge structures and shallow foundation design for the culverts.
05/12-03/13	**SP#H.002260.5 | Goose Bayou Bridge Route LA 45, Lafitte, LA** **Assistant Project Engineer.** Robert managed geotechnical investigation for the bridge that included drilling and laboratory testing of two deep soil borings and 4 CPT soundings performed with barge-mounted drilling equipment under difficult access conditions. Assisted with providing final soil boring logs and CPT sounding logs in LADOTD format.
07/09-08/11	**SP#700-29-0112 | LA 1 – Phase 1, Lafourche Parish, LA** **Assistant Project Engineer.** Robert served in the field as onsite engineer for Phase 1A of this project in southeast Louisiana. The completed project consisted of 17 miles of elevated roadway with low-level bridges and medium-level bridges, two elevated interchanges, and two fixed high-level bridges over navigable waterways. Conducted dynamic monitoring using PDA, performing CAPWAP analyses, reviewed drive logs, and supervised field technicians.
03/11-02/12	**SP#H.003886.5 | I-49 Segment J, Caddo Parish, LA** **Assistant Project Engineer.** Robert planned the geotechnical investigation program, coordinated field activities, assigned lab testing, reviewed laboratory test results, classified soil types based on laboratory tests, and compiled soil boring logs in the LADOTD format.
08/09-12/09	**Central Thruway, East Baton Rouge Parish, LA** **Assistant Project Engineer.** Robert performed PDA testing on pre-stressed, pre-cast concrete piles for various bents.

Robert Rousset resume continued

03/19-07/20 SECTION 17 PROJECT	**SP#H.004100.5-2 | I-10 Widening (LA415 to Howard Street): East Baton Rouge Parish, LA** **Project Engineer.** Ardaman's scope of work for this project consisted of evaluating laboratory test results, including consolidation testing, and producing soil boring logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, electrical resistivity geophysical surveys, associated laboratory testing and the preparation of a geotechnical data report. Robert assisted with the fieldwork portion of this project.
2020 - Ongoing	**SP NOs. (Multiple) | Rural Bridges Replacement Initiative: Avoyelles and Webster Parishes, LA** **Project Engineer.** This project consisted of the replacement of multiple small rural bridges throughout Central and North Louisiana. He oversaw the field investigation, lab testing, and engineering analyses for the project. Engineering analyses consisted of axial pile capacities, pile drivability, settlement, and slope stability analyses.
08/16-07/19	**CS-65 | Calcasieu Ship Channel Salinity Control Measures (CS-65) Phase 1A Project: Cameron & Calcasieu Parish, LA** **Project Manager.** The project aims to limit saltwater intrusion and reduce land loss across various bayous, marshes, and lakes within the vicinity of the Calcasieu Ship Channel (CSC), located across Cameron and Calcasieu Parish. Stretching across 20 miles, the project consists of various sill structures, erosion control measures, and channelization structures. Robert served as project manager for this project where he coordinated all field investigation(s), laboratory testing, and geotechnical engineering analyses.
07/21-01/22	**SP#H.003931 | I-10 Calcasieu River Bridge: Calcasieu Parish, LA** **Project Engineer.** Robert assisted on coordination and oversight of aspects of this project pertaining to marine based field investigation. The fieldwork consisted of a series of soil borings and CPTs with challenging access requirements. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass.
09/18-10/22	**SP#H.001344 | US 190: LA 437 TO US 190 BUS (PH 1): St. Tammany Parish, LA** **Project Manager.** Robert is managed this project which included the widening of US 190 to a four-lane boulevard between US 437 and US 190. A new bridge over the Bogue Falaya River will be constructed adjacent to, and east of, the existing bridge. The existing bridge will remain and function as two lanes of southbound traffic. The new bridge will be 54-feet-wide with three 12-foot travel lanes for 2 northbound traffic with an eight-foot shoulder to the inside and a 10-foot shoulder to the outside. Robert managed the field investigation and laboratory testing.
07/16-10/21	**SP#H.011152.5 / I-12 Widening (US 190 TO LA 59): St. Tammany Parish, LA.** **Project Manager.** Robert managed this project which included the widening of Interstate 12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance including determining access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. Soil boring logs were created in LADOTD format. Engineering analyses for a retaining wall for one of the bridge abutments was conducted.
10/18-01/19	**SP#H.003370 / I-220 / I-20 Interchange Improvement And Barksdale Air Force Base Access Road: Bossier Parish, LA** **Project Engineer.** Robert assisted in planning and coordination of installation of automated settlement monitoring instrumentation. Also assisted in preliminary design and planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman & Associates, Inc.					
Name	**Jarmon King, EI**			Years of Relevant Experience with this Employer	5
Title	Assistant Project Engineer			Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization			BS/2019/Civil Engineering		
Active Registration Number/State/Expiration Date			EI#34348/LA/03-31-2026		
Year Registered	2019	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Field Investigations			

For these contracts, Jarmon will conduct comprehensive assessments of subsurface conditions to inform the design and construction of transportation infrastructure. He will oversee field investigations, including soil sampling, test pits, and geophysical surveys, to gather data on soil properties, groundwater levels, and geological formations. By analyzing this information, Jarmon will identify potential risks and provide recommendations for foundation design, slope stability, and mitigation measures, ensuring the safe and reliable performance of infrastructure projects. Jarmon serves as an assistant project engineer at Ardaman in the Baton Rouge office. Jarmon is involved with overseeing and conducting geotechnical investigations. Jarmon also prepares soil boring logs; processes and analyzes cone penetration test (CPT) sounding data; performs pile and settlement analyses; assists with writing geotechnical reports; and helps coordinate field and laboratory operations. Jarmon has experience in overseeing and performing pile driving analyzer (PDA) testing during construction projects.

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).
03/19-07/20 SECTION 17 PROJECT	**SP#H.004100.5-2 | I-10 Widening (LA415 TO HOWARD ST): East Baton Rouge Parish, LA** **Assistant Project Engineer.** Jarmon evaluated the laboratory test results and produced logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately one mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, associated laboratory testing and the preparation of a geotechnical data report.
01/15-Ongoing	**Pecue Lane / I-10 Interchange: East Baton Rouge Parish, LA** **Assistant Project Engineer.** Jarmon performed PDA testing and CAPWAP analyses for the pre-cast pre-stressed concrete (PCC) piles and steel pipe piles driven for the I-10 Interchange bridge.
10/18-06/21	**SP#H.000263 | Chef Menteur Pass Bridge & Approach: Orleans Parish, LA** **Assistant Project Engineer.** Jarmon helped produced soil boring logs and CPT soundings in LADOTD format. He also assisted with development of the data report.
10/18-01/19	**SP#H.003370 | I-220 / I-20 Interchange Improvement And Barksdale Air Force Base Access Road: Bossier Parish, LA** **Assistant Project Engineer.** Jarmon assisted the Project Manager in preparing the preliminary planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and construct an interchange and access road from Interstate 20 in Bossier City, Louisiana. Jarmon performed PDA testing and CAPWAP analyses for the field construction during the test pile program.
07/21-Ongoing SECTION 17 PROJECT	**SP#H.004100.5 | I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR): Baton Rouge Parish, LA** **Assistant Project Engineer.** Jarmon assists in engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.

Jarmon King resume continued

04/21-Ongoing	**SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 | Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA** **Assistant Project Engineer.** Jarmon assists in engineering design pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
07/21-01/22	**SP#H.003931 | I-10 Calcasieu River Bridge: Calcasieu Parish, LA** **Assistant Project Engineer.** Jarmon assisted with all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. He also assisted with the laboratory testing program, processing and analyzing of the ECPT and ER data, development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman & Associates, Inc.				
Name	**Chandler Willis**		Years of Relevant Experience with this Employer	12
Title	Laboratory Manager		Years of Relevant Experience with Other(s) Employers	4
Degree(s)/Years/Specialization		BS/2004/Marketing		
Active Registration Number/State/Expiration Date		NICET/Generalist, Laboratory #135280/11-01-2024		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Lab Manager		

For these contracts, Chandler will oversee all laboratory operations related to geotechnical testing and analysis for transportation projects. Chandler manages Ardaman's Baton Rouge laboratory, ensuring compliance with AMRL and USACE standards. He oversees testing operations, schedules assignments, trains technicians, and conducts various soil mechanics tests, including classification, grain size analysis, and strength testing. Prior to Ardaman, Chandler served as a laboratory manager elsewhere for two years.

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).
10/18-06/21	**SP#H.000263.5-1 | Chef Menteur Pass Bridge And Approach, Orleans Parish, LA** **Laboratory Manager.** Chandler supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and UU Strength Tests. Assisted in performing field resistivity testing along the alignment.
11/15-01/21	**SP#H.011309 | MacArthur Interchange Completion Phase 2, Route US 90-Z, Jefferson Parish, LA** **Laboratory Manager.** Chandler supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14-05/23	**SP#H.004435 | I-12 to Bush Segment 2, LA 3241, St. Tammany Parish, LA** **Laboratory Manager.** Chandler supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and UU Strength Tests.
04/14-05/18	**SP#H.004113 | I-12 to Bush Segment 3, LA Highway 3241 (LA 435 TO LA 40/41), St. Tammany Parish, LA** **Laboratory Manager.** Chandler supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and UU Strength Tests. Assisted in performing field resistivity testing along the alignment.
10/09-Ongoing SECTION 17 PROJECT	**SP#H.004646.5 | Mississippi River Bridge Review, Vicksburg, MS** **Laboratory Manager.** Chandler supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unconfined Compressive Test and Unit Weight, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, Organic Content, and UU Strength Tests and Consolidated-Drained Direct Shear Tests.

16. STAFF EXPERIENCE:

	Firm Employed By: Ardaman & Associates, Inc.				
	Name	**Casey Floyd**		Years of Relevant Experience with this Employer	4
	Title	Drilling Supervisor		Years of Relevant Experience with Other(s) Employers	30
	Degree(s)/Years/Specialization		N/A		
	Active Registration Number/State/Expiration Date		Traffic Control Supervisor/LA/9-6-2027 | Traffic Control Technician/LA/9-5-2027		
	Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities			Drilling Supervisor		

For these contracts, Casey will oversee the geotechnical drilling operations for transportation projects, ensuring safety, efficiency, and accurate data collection. Casey will coordinate crews, equipment, and logistics, maintaining compliance with regulations and safety standards. Casey's role is crucial in providing essential information for project planning and design. Casey has over 30 years of experience drilling in the Louisiana Gulf Coast region. This experience has included soil borings (on land and over water), CPT, monitor well installation and abandonment, and installation of geotechnical monitoring instrumentation. Casey has planned many LADOTD geotechnical investigation projects. He has arranged right of entry, utility locations, site clearing, arranging for police assistance (if needed) for traffic control/crew safety, and coordinating between engineering staff and drill crew.

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	**SP Nos. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 | Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA** **Drilling Supervisor.** Casey assisted with all aspects of this project pertaining to coordination of fieldwork including 31 deep soil borings. Some of these borings were performed through the middle of bridges and at hard access locations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
10/18- 01/20	**SP#H.000263.5-1 | Chef Menteur Pass Bridge & Approach, Orleans Parish, LA** **Drilling Supervisor.** Casey helped manage and oversee all aspects of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep of high flow water. Ardaman also developed soil boring logs and prepared a geotechnical data report.
03/19-07/20 SECTION 17 PROJECT	**SP#H.004100.5-2 | I-10 Widening (LA 415 to Howard Street), East Baton Rouge Parish, LA** **Drilling Supervisor.** Casey helped oversee the field investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, and electrical resistivity imaging along the entire alignment.
07/21-01/22	**SP#H.003931 | I-10 Calcasieu River Bridge, Calcasieu Parish, LA** **Drilling Supervisor.** Casey helped manage and oversee all aspects of an extensive field investigations program which included 37 deep soil borings and 39 CPT soundings. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass.

16. STAFF EXPERIENCE:

Firm Employed By: Adaptive Management and Engineering			
Name	**Venu Tammineni, PE**	Years of Relevant Experience with this Employer	5
Title	President/Principal	Years of Relevant Experience with Other(s) Employers	14
Degree(s)/Years/Specialization	MCE/2005/Geotechnical Engineering		
Active Registration Number/State/Expiration Date	PE#36864/LA/9-30-2024		
Year Registered	2012	Discipline	Civil Engineering/Geotechnical
Contract Role(s)/Brief Description of Responsibilities	Pavement Design		

For these contracts, Venu will develop durable and efficient pavement solutions for transportation projects. Venu will provide technical guidance for geotechnical investigations, laboratory procedures, and geotechnical engineering designs.

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).
1/20 - 12/21	**City of East Baton Rouge and Parish of East Baton Rouge, City-Parish Project#20-CP-HC-0004, Baton Rouge, LA** Venu provided pavement design recommendations for the proposed pavement expansion for the Highland Road at Siegen Lane/ Burbank Drive intersection. As a consultant to Fourrier & de Abreu Engineers, LLC (FDAE), Venu coordinated all aspects of the project including, but not limited preparation of the proposal for the project, discussion with the design team, obtaining DOTD permit, executing field exploration program, assigning laboratory tests, performing pavement analyses, and preparing the geotechnical report that has been reviewed and accepted by the design team.
3/22 - 4/22	**City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA** Venu provided pavement design recommendations for the proposed pavement improvements for various streets throughout the City of Patterson. Venu coordinated all aspects of the project including, but not limited preparation of the proposal for the project, discussion with the design team, assigning laboratory tests, laboratory testing QA/QC, performing pavement analyses, and preparing the geotechnical report.
1/18 - 2/18	**City of Youngsville, Chemin Metairie Parkway and Détente Road Roundabout, Youngsville, LA** The City of Youngsville planned to construct a roundabout at the existing intersection of Chemin-Metairie Parkway and Détente Road. The roundabout will have a larger footprint than the intersection and will require installation of additional fill to match grades. Planned and executed field exploration and provided recommendations for rigid and flexible pavements for the project. (Experience with previous employer)
6/16 - 9/16	**Causeway Boulevard - Earhart Expressway Interchange, New Orleans, LA** Coordinated the drilling activities for limited soil borings for the project. Three-inch diameter soil samples were obtained using a thin-walled tube and piston sampler. Soil stratigraphy was highly variable and layered and required close monitoring of the drilling crews to obtain quality soil samples. (Experience with previous employer)
11/14 - 2/15	**St. Landry Parish Smooth Ride Home – Phases II-A and II-B, St. Landry Parish, LA** Project included improving the condition of several roadways throughout the parish. Coordinated the field investigation and provided recommendations for the roadway improvements including soil-lime and soil-cement stabilization. (Experience with previous employer)
04/11 - 06/11	**Phase II Apron Pavement Improvements, Lafayette Regional Airport, Lafayette, LA** Project involved replacing the existing asphalt pavement apron with a new asphalt or concrete pavement apron to accommodate airplanes. Recommendations for CBR and modulus of subgrade reaction for design were provided. (Experience with previous employer)

16. STAFF EXPERIENCE:

Firm Employed By: Adaptive Management and Engineering				
Name	**Gregory Mattson, II, PE**		Years of Relevant Experience with this Employer	3
Title	Project Lead Engineer		Years of Relevant Experience with Other(s) Employers	8
Degree(s)/Years/Specialization		MS Civil & Environmental Engineering/2014/Geotechnical Engineering		
Active Registration Number/State/Expiration Date		PE#42387/LA/9-30-2024 | Traffic Control Technician/LA/9-8-2027 | Flagger/LA/10-20-2027		
Year Registered	2018	Discipline	Civil Engineering/Geotechnical	
Contract Role(s)/Brief Description of Responsibilities		Exploration and Laboratory Assistance		

For these contracts, Gregory will support geotechnical investigations by assisting with field exploration and laboratory testing. Gregory has experience providing field assistance, conducting quality assurance and quality control (QA/QC) for laboratory data, and performing engineering analyses and reporting.

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).
03/22 - 04/22	**City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA** Gregory assisted with pavement design recommendations, provided laboratory testing QA/QC, and technical review for the geotechnical report.
01/22-03/22	**1,4Group, Inc Proposed Warehouse and Plant Facility, Ascension Parish, LA** This project involved supporting pavement infrastructure for heavily loaded vehicles to access a proposed warehouse facility. Gregory was the on-site field engineer for the boring conducted as part of the field exploration. Additionally, provided QA/QC for laboratory testing and boring logs, generated project figures, assisted with rigid and flexible pavement analyses, and drafted the geotechnical report.
01/20 - 02/20	**McKim and Creed, PWS Trinity Derby Brine Pipeline, Frio County, TX** McKim and Creed is moving forward designing a brine transportation pipeline that includes trenchless crossings of roads, rivers, and railroad tracks. This phase of the project includes two HDD crossings, one at the Frio River and the other at Interstate 35 and a railroad. The field exploration program included the geotechnical drilling and sampling of two 50-foot soil borings. Gregory coordinated with the client's project manager and developed the proposal; provided laboratory data QA/QC; assisted with HDD recommendations; and assembled the GDR. (Experience with previous employer)
04/19 - 06/19	**Jack and Bore for Dredge Material Pipeline, Cameron Parish, LA** The project involved a proposed Jack and Bore location for a dredge material pipeline road crossing in Cameron, LA. Gregory provided laboratory QA/QC, conducted geotech-nical analyses, and drafted the report. (Experience with previous employer)

STAFF EXPERIENCE:

Group 7 - Environmental Services Team

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Name	**Eric Jefferson, PE, AICP, PTP**		Years of Relevant Experience with this Employer	6
Title	Discipline Manager - Planning & Development		Years of Relevant Experience with Other(s) Employers	25
Degree(s)/Years/Specialization		MS/2013/Urban and Regional Planning | BS/1993/Civil Engineering		
Active Registration Number/State/Expiration Date		PE#45590/LA/2024		
Year Registered	2000	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Environmental and Permitting | **Meets MPR 4**		

For this contract, Eric will oversee environmental assessments and permitting for transportation projects alongside subs, DMRP, and Horrocks. He will coordinate with regulatory agencies, conduct environmental studies, and ensure compliance with environmental laws. Additionally, he will develop permit applications, support NEPA compliance, and perform material sampling and testing. Eric has extensive experience in civil engineering and planning, managing public and private projects. His expertise includes feasibility analysis, design, planning studies, permitting, and construction administration. Certified by the Transportation Professional Certification Board and the American Institute of Certified Planners, Eric is recognized for his professional excellence.

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 - Ongoing	**Old Highway 80 Bridge Replacement, Meridian, Lauderdale County, MS** **Senior Planner.** Eric provided permitting services for a bridge replacement project in west Meridian along Old Highway 80. Permitting services included obtaining a 404 permit from US Army Corps of Engineers (USACE), coordinating an architectural and cultural resources assessment for the Mississippi Department of Archives and History (MDAH), and preparing a construction stormwater pollution prevention plan (SWPPP) to comply with Mississippi Department of Environmental Quality (MDEQ) permit regulations. Built in 1926, the existing US 80 Bridge over Okatibbee Creek in Lauderdale County needed to be replaced. The old bridge was taken down and replaced with a new bridge that met Mississippi Office of State Aid Road Construction bridge standards. The project included environmental studies and permitting, surveying, hydraulic and hydrological analysis, bridge and roadway design, geotechnical engineering, utility coordination, and construction phase support services. Additional right-of-way and construction easements were acquired. The bridge's age and historical importance qualified it for nomination to the National Register of Historic Places, so Waggoner collaborated with the Mississippi Department of Archives and History to install a historical marker near the new bridge.
09/13 - Ongoing	**East Mississippi Intermodal Railway, Southeast Region, MS** **Senior Planner.** Eric provided planning services for the Rail Authority of East Mississippi (RAEM). After assisting the RAEM in preparing and submitting a successful application and award of Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant funds for planning, Eric will prepare a detailed National Environmental Policy Act (NEPA) evaluation of the proposed corridor. This new 56-mile rail line will connect with existing shortlines and provide continuous rail service between the Meridian Speedway and the Gulf of Mexico.
02/18 - Ongoing	**Water Treatment Plant and Water Supply Improvements, Gautier, MS** **Senior Planner.** Eric provided permitting services for a project to construct a new water well, water main, and water treatment plant upgrades for the City of Gautier, MS. Permitting services included preparing an environmental assessment for USACE and submitting a wetlands permit to the Mississippi Department of Marine Resources.
12/22 - Ongoing	**Bear Creek Watershed Plan - Environmental Assessment, Madison County, MS** **Discipline Manager.** Eric supported the public engagement team with preparation and review of public meeting materials for this project. This Mississippi Soil and Water Conservation Commission project is for flood damage reduction and water quality management. Recurrent flooding is occurring in urban areas and the plan focuses on reducing those flood hazards. A secondary purpose and benefit of the plan is to improve water quality.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.			
Name	**Jocelyn "Joce" Pritchett, PE**	Years of Relevant Experience with this Employer	1
Title	NEPA Division Leader	Years of Relevant Experience with Other(s) Employers	32
Degree(s)/Years/Specialization	BS/1990/Civil Engineering | MS/1999/Civil Engineering | MS/1999/City and Regional Planning		
Active Registration Number/State/Expiration Date	PE#83899/FL/02-28-2025		
Year Registered	2017	Discipline	NEPA
Contract Role(s)/Brief Description of Responsibilities	Discipline Lead - NEPA Documentation/Grant Writing | **Meets MPR 4**		

For these contracts, Joce will oversee the preparation of NEPA documentation and grant applications for transportation projects. She will coordinate with interdisciplinary teams to assess environmental impacts, develop mitigation strategies, and ensure compliance with federal regulations. Additionally, she will lead efforts to secure funding through grant opportunities, collaborating with stakeholders to craft compelling proposals that align with project goals. Joce has diverse experience in various transportation projects, including highway widening, bridge construction, corridor studies, and transit projects across Mississippi, Georgia, and Florida. She possesses extensive expertise in NEPA compliance, including project scoping, alternatives analysis, and environmental documentation. Furthermore, Joce has a track record of writing and leading successful USDOT Discretionary Grant applications for the Florida DOT, assisting agencies in securing funding for priority projects.

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 - Ongoing	**SR 31 PD&E Study, FDOT District One, Lee County, FL** Joce was responsible for NEPA QA/QC and assistance with a public hearing for the PD&E study to consider the widening of SR 31 and replacement of the Wilson Pigott Bridge over the Caloosahatchee River from SR 80 to SR 78 in Lee County. Alternatives are being evaluated to determine the best option to meet the purpose of the project while avoiding and minimizing impacts to the Florida Gas Transmission line, Sweetwater Marina and natural resources. Multiple roadway alignments and bridge configurations were considered in an effort to avoid Florida Gas Transmission lines, minimize wetland impacts and to maintain access to an existing marina on the southern shoreline. Assessment is in accordance with FDOT/FHWA standards to ensure NEPA approval and that the project moves forward successfully through design and permitting.
06/05 - 03/09	**MDOT Greenville Connector Environmental Impact Statement, City of Greenville-Washington County, MS** **Project Manager and Document Manager** for an Environmental Impact Statement (EIS) of a 15 mile interstate facility connecting the City of Greenville to the new proposed I-69 in the Mississippi Delta. She wrote 80% of the EIS, completing the human environment portions, purpose and need, environmental consequences and alternatives development sections and summarizing the archaeology, noise and ecology reports. This project was filed (a ROD was never issued) but it included an extensive public involvement campaign to assist with alternatives development. Major environmental components of the project included; historical and archaeological study (a mid-19 to early 20th century homesite and grave were found), a complex noise study, traffic projections and operations analysis, ecology study and community impact assessment. An extensive GIS database was developed to aid in alternative location. Layers included; property maps, land use, demographic data, ecological data and water resources.
09/09 - 05/10	**SR 611 NEPA Environmental Assessment, Jackson County, MS** Joce managed and authored a complete environmental assessment for SR 611 in the coastal area of Hancock County, Mississippi with the US Department of Housing and Urban Development serving as the lead agency. Project was conducted through CDBG Grant funding in response to Hurricane Katrina. Environmental issues along the project corridor included floodplain management, soil suitability and surface water runoff.

Joce Pritchett resume continued

12/22 - 02/23	**SR 72 RAISE Grant Application, FDOT District One, Sarasota County, FL** **Lead Grant Writer** for the federal discretionary RAISE Grant application for safety improvements to SR 72 in Sarasota County. The application included analysis of the NOFO, QC of the benefit/cost analysis (completed by others), summarizing the traffic design, analyzing the project according to the eligibility/ election criteria and coordination with PGA's graphic design team to complete the application. Grant request was $25 million, Total construction value was $37 million. Grant was submitted in February 2023 and is currently under review at USDOT.
05/02 - 02/03	**MDOT I-10/Canal Road Interchange Environmental Assessment, Gulfport-Harrison County, MS** **Project Manager** for completion of innovative interchange concepts and NEPA document preparation for a complex Interstate interchange rehabilitation. This interchange was the first system-to-system Interchange constructed in the State of Mississippi.
01/02 - 08/03	**MDOT SR 463 Environmental Assessment and Concept Design, Madison County, MS** **Project Manager** primary document author for innovative Context Sensitive Design corridor study that resulted in a NEPA environmental assessment. Ms. Pritchett designed and led the public involvement effort that included developing and working with a Citizen's Advisory Team to develop alternatives sensitive to a historic, politically charged corridor in Madison County, Mississippi. The project included extensive agency and political coordination, management of the press and public statements, public involvement meetings, one-on-one meetings with community leaders, designing concept alternatives, historic and archaeological evaluation of the corridor right-of-way, traffic studies and writing the NEPA document.
08/08 - 12/08	**MDOT SR 43 Environmental Assessment, Kiln-Hancock County, MS** **Project Manager and Document Manager** for approximately five miles of bypass in Hancock County. Complexities of the project included developing concept alternatives for the Jourdan River Bridge and associated Oxbow lakes and wetlands, relocation assistance development in difficult post-Katrina conditions, and extensive floodplain and floodway impacts. Ms. Pritchett developed and administered the public involvement and agency coordination plans, wrote the purpose and need statement, the relocation assistance report and managed the cultural resources and ecology sub-consultants.
11/05 - 12/08	**MDOT Tupelo Railroad Relocation Feasibility Study and EIS, Lee County, MS** **Deputy Project Manager and Document Author** in a Feasibility Study and EIS to relocate the Burlington Northern Santa Fe and Kansas City Southern Railroad lines through the City of Tupelo, Mississippi. The BNSF rail currently bisects the Crosstown intersection, the City's busiest intersection and separates much of the town from the local hospital. This project was developed to study alternative relocations of the tracks. The work included preparation of a feasibility assessment of the alternatives for the railroad relocation and preparing an Environmental Impact Statement (EIS) consistent with National Environmental Policy Act (NEPA) and related EIS guidelines of the Federal Railroad Administration (FRA). Ms. Pritchett wrote the purpose and need statement, designed and lead the local public involvement and agency coordination efforts and participated in much of the FRA/BNSF and FRA/CSX coordination meetings. Her work also included authorship of the community and parks impact assessments and sociodemographic Technical Memos for the EIS. She supervised the cultural resources and ecological sub-consultants and summarized those documents for the EIS.
02/07 - 05/08	**MDOT Vicksburg Port Road Environmental Assessment, MDOT, Vicksburg-Warren County, MS** **Project Manager and Document Manager** for an environmental assessment to study a route from the Port of Vicksburg east through the Loess bluffs to connect to US 61 along the Mississippi river in the historic City of Vicksburg. The current route traversed through a low-income historic minority neighborhood, requiring extensive Environmental Justice Study and community impact assessment. The Loess bluffs are historically unstable regarding construction, so considerable effort was required to study the geotechnical aspects and design considerations of the bluff area. The project was also near the historic Vicksburg National Military Park as well as a local landfill. As well as serving as the primary document author, Ms. Pritchett developed and lead the public involvement effort which included communicating these complex design issues with the Environmental Justice neighborhood and the larger residential and business communities in the area. GIS flyover visualization techniques were used display the topography as well as the view of the new proposed bridge from the historic community below.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.				
Name	**Joyce Barkley**		Years of Relevant Experience with this Employer	>1
Title	NEPA Group Leader		Years of Relevant Experience with Other(s) Employers	28
Degree(s)/Years/Specialization		BA/1997/Biology | MS/2003/Environmental Management		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	NEPA	
Contract Role(s)/Brief Description of Responsibilities		NEPA Group Leader		

For these contracts, Joyce will lead a team responsible for overseeing the National Environmental Policy Act (NEPA) compliance process for transportation projects. She will coordinate with various stakeholders to assess environmental impacts, develop mitigation measures, and ensure regulatory compliance. Joyce has been involved with all aspects of environmental reviews and documentation to secure state and federal approvals and ensure regulatory compliance throughout project development. She has been responsible for the oversight of interdisciplinary teams, the completion of complex technical studies, the management of budgets, and the execution of schedules for projects.

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 - 09/21	**LA 1 Improvements Leeville to Golden Meadow Phase 2, LADOTD, Leeville, Lafourche Parish, LA** **Natural Resource Project Manager** for threatened and endangered species studies to construct approximately 9 miles of a new two-lane, elevated highway from Leeville, LA to Golden Meadow, LA. Preliminary design for the $135 M project, involved construction of a new roadway alignment in an undisturbed, coastal marsh corridor. Consulted with agencies for protected species (West Indian manatee, sea turtles, migratory birds); performed habitat, rookery and essential fish habitat surveys; and prepared final technical reports.
06/12 - 02/13	**Interstate 49 Inner City Connector, LADOTD, Shreveport, Caddo Parish, LA** **NEPA Lead** for the environmental evaluation of the $700 Million, 3.8-mile new freeway project designed to connect existing I-49 at its current junction with Interstate 20 to future I-49 North at its proposed junction with Interstate 220. Alternatives under consideration include: (1) No action; (2) Elevated freeway on new location; (3) At-grade freeway on new location; and (4) Freeway that is partly elevated/partly at-grade. Ms. Barkley provided oversight (2012 – 2013) of consultant technical studies prepared during Stage 1 (NEPA/Environmental Study), including participating in two rounds of public hearings. The project is extremely controversial and is still in the DOTD Stage 1 Process as a 5th build alternative (constructing a I-220/LA 3132 corridor) is now being assessed for impacts to both historic structures and the Allendale community. The draft Environmental Impact Statement and Record of Decision are anticipated in 2024.
07/21 - 08/21	**I-12 to Bush EIS Record of Decision (ROD) Mitigation and Habitat Assessments, LADOTD, Bush, St. Tammany Parish, LA** **Natural Resource Lead** for the habitat assessments required as part of the comprehensive mitigation plan and Section 401 Water Quality Certification from the LA Department of Environmental Quality. DOTD/FHWA adopted the USACE New Orleans District EIS that evaluated the $250 Million I-12 to Bush new alignment project, approximately 20 miles, to connect I-12 to the City of Bush, LA. The USACE analyzed the alternatives considered as part of the Record of Decision (ROD) and set the directive for DOTD in developing the comprehensive mitigation plan.
03/21 - 01/22	**Highway 302 Bayou Barataria Bridge at Jean Lafitte, LADOTD, Jean Lafitte, Jefferson Parish, LA** **Natural Resource Project Manager** for CE-level NEPA Studies to replace the existing structurally deficient two-lane, 210-ft. long-swing Warren Polygonal truss bridge in Barataria, Louisiana and determined eligible for the National Register of Historic Places under Criterion C for engineering. Preliminary design for the $60 million project, involved construction of a new moveable, low-chord swing span on new alignment approximately 0.9 miles south of the existing bridge. Participated in evaluating bridge layouts and presented at the public meeting; performed wetland delineations and prepared permitting package; consulted with agencies for threatened and endangered species; performed habitat, rookery, and essential fish habitat surveys; and prepared final technical reports.

Joyce Barkley resume continued

02/21 - 05/21	**LA Highway 56 Boudreaux Canal Swing Bridge Replacement, LADOTD, Chauvin, Terrebonne Parish, LA** **Natural Resource Project Manager** for CE-level NEPA Studies to replace the existing two-lane, 187-ft. long swing bridge in Chauvin, Louisiana. Preliminary design for the $30M project, involved replacement with an in-kind swing span on existing alignment. Performed wetland delineations and prepared permitting package. Ms. Barkley also consulted with agencies for threatened and endangered species, performed habitat, rookery, and essential fish habitat surveys, and prepared final technical reports.
02/21 - 08/21	**Lajaunie Road/Lateral 1 Bayou St. Clair Replacement, LADOTD, Lafayette, Lafayette Parish, LA** **Natural Resource Project Manager** for CE-level NEPA Studies to replace the existing two-lane, 65-ft. long timber pile bridge in Lafayette, Louisiana. Preliminary design involved replacement with a prestressed concrete slab span on existing alignment. Performed wetland delineations and prepared permitting package; consulted with agencies for threatened and endangered species; performed habitat surveys; and prepared final technical reports.
05/21 - 12/21	**I-10 Calcasieu River Bridge, LADOTD, Lake Charles, Caddo Parish, LA** **Natural Resource Scientist** for the EIS that evaluated the replacement of the $170 Million I-10 Calcasieu River. Conducted oversight and provided technical edits on the stream and wetland determinations and threatened and endangered species assessments. This bridge was rehabilitated in 2012; however, it no longer met current design criteria. Additionally, the discovery of hazardous materials contamination with the existing and proposed right-of-way elevated the evaluation to an EIS. Assessments were conducted on the no build and three alternatives with the final EIS issued September 2023.
05/21 - 08/21	**Union Pacific Railroad Crossings, LADOTD, Bastrop, Morehouse Parish, LA** **NEPA Project Manager** for the evaluation including coordination of cultural resources, hazardous materials screening, aquatic resources review, protected species review, and preparing of the programmatic CE for the $100,000 project involving multiple railroad crossing safety upgrades, repaving, and railroad signal replacements.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Kim Bereis, AICP**			Years of Relevant Experience with this Employer	3
Title	Environmental Planning Group Leader			Years of Relevant Experience with Other(s) Employers	25
Degree(s)/Years/Specialization			BS/1994/Environmental Studies | MS/1997/Urban and Regional Planning		
Active Registration Number/State/Expiration Date			AICP#017600		
Year Registered	2002	Discipline	NEPA		
Contract Role(s)/Brief Description of Responsibilities		Project Planning Lead			

For these contracts, Kim will spearhead the planning phase of transportation projects from inception to implementation. She will oversee project scoping, scheduling, and budgeting, ensuring alignment with organizational goals and regulatory requirements. Kim has extensive experience in procedural and substantive NEPA (and SEPA) compliance, such as project scoping, purpose and need, alternatives analysis, community studies, and overall environmental documentation, including Minimum Criteria Determination Checklists (MCDCs), Categorical Exclusions (CEs), Environmental Assessments/Findings of No Significant Impact (EAs/FONSIs), and Environmental Impact Statements (EISs).

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).
12/19 - Ongoing	**Stumptown Road Extension, Town of Huntersville, Mecklenburg County, NC** Kim is leading the planning activities for the proposed extension of Stumptown Road from NC 115 (N. Old Statesville Road) to Aberfeld Road. The new alignment typical section incorporates sidewalk and bike lanes and includes a new at-grade railroad crossing over a Norfolk Southern rail line.
03/18 - Ongoing	**R-3430 – Connelly Springs Road Improvements, NCDOT PMU and Divisions 11 and 13, Burke and Caldwell Counties, NC** **Planning Project Manager** for roadway modernization improvements (two-way left-turn lane, intersection improvements, access management and bike/ped accommodations) to Malcolm Boulevard/Connelly Springs Road from US 70 in Burke County to Southwest Boulevard in Caldwell County. This 10-mile, state-funded project also includes the replacement of the Castle Bridge over the Catawba River. The project includes coordination with the USACE, Western Piedmont Council of Governments, Greater Hickory Metropolitan Planning Organization (MPO) and multiple municipalities, including the Town of Cajah's Mountain and Town of Rutherford College.
04/22 - Ongoing	**Proposed Bishopville Truck Route-Environmental Impact Statement, South Carolina Department of Transportation, Lee County, SC** The purpose of the project is to reduce truck traffic traveling through downtown and support economic development in the area. The project began in 2010, SCDOT prepared an EA that was approved in 2012 and a public hearing was held in late 2012. Due to considerable controversy and the potential for significant impacts, FHWA directed SCDOT to prepare an EIS. Kim is assisting in the DEIS and supporting documentation, including co-authoring the Community Impact Assessments (CIA), Community Characteristics Reports (CCR) and Environmental Justice Assessment technical memorandums and the qualitative indirect and cumulative effects documentation.
11/10 - 10/19	**Monroe Connector-Bypass (Expressway) Environmental Impact Statement NCDOT/NCTA, Mecklenburg and Union Counties, NC** **Senior Planner.** Kim served as Senior Planner responsible for supporting preparation of a combined document for the Monroe Bypass environmental assessment prior to its merger with the connector project in 2006 and its administration under the direction of the NCTA. Assisted in the Draft Environmental Impact Statement for the proposed 21-mile, new controlled-access toll roadway from US 74 in Mecklenburg County to US 74 between Wingate and Marshville in Union County, one of the fastest growing counties in the country. Assisted in conducting the air quality study for the Monroe Bypass portion, primary author of the Community Impact Assessment for the combined project and assisted in updating socio-economic tasks. Also co-developed the first-ever local citizen guide (Citizens Summary for the Monroe Connector/Bypass), which was featured on the FHWA's Re:NEPA website.

Kim Bereis resume continued

05/09 - 03/11	**NC 73 (Sam Furr Road) Widening Categorical Exclusion Re-evaluation, Huntersville and NCDOT, Mecklenburg County, NC** **NEPA Document Manager** for this locally-administered project, which consisted of an updated CE for the widening of an important and congested 4.2-mile stretch of NC-73 in Huntersville. A portion of this project received a federal stimulus package allocation, requiring an aggressive schedule and extensive coordination among the Town, NCDOT and FHWA in developing designs, stakeholder and public involvement and consensus of design features such as bicycle and pedestrian accommodations and an innovative quadrant roadway intersection configuration.
02/12 - 05/17	**Johnson Street/Sandy Ridge Road (JSSRR) Widening, NCDOT, Guilford County, NC** **Project Manager** for the planning, preliminary engineering and technical studies for development of NEPA compliance documentation for widening of 4.4 miles of JSSRR from I-40 to Skeet Club Road in the city of High Point. Oversaw supporting subconsultant activities, including public involvement, traffic forecasting and analyses and cultural resource investigations. The project was designed to be context-sensitive; to avoid important community, Section 4(f) and Section 6(f) resources; to improve bicycle and pedestrian mobility; and to enhance access to destinations along the corridor. The public involvement approach included a project branding contest and joint half-day work sessions with project community and technical steering committees.
06/13 - 04/17	**U-4714 - East John Street/Old Monroe Road Improvement, NCDOT, Mecklenburg and Union Counties, NC** **Project Manager** through FHWA approval of the environmental assessment and preliminary engineering for improvements to a highly-congested corridor in a high-growth area. Managed public involvement activities and oversaw traffic analyses and natural environment tasks and oversaw subconsultant cultural resource investigations. Given the corridor's importance for commuters as well as local desires for a complete street, the project incorporated consensus-building techniques and continuous collaboration and partnering among the NCDOT (PDEA, Congestion Management, Division 10 and Roadway Design) and the towns of Matthews, Stallings and Indian Trail. The project included the first-ever PDEA project symposium and project design charrette, which was a three-day event facilitated by team members under the direction of a certified charrette manager.
09/05 - 04/08	**Bridge Group 33 Categorical Exclusions, NCDOT, Statewide, NC** Assisted in the development of CE for statewide bridge replacement projects. Tasks for the on-call assignments included the preparation of technical memorandums that included hydraulics and natural resources, functional designs for six bridges, location surveys and preliminary design for four bridges. Special issues included an historic mill adjacent to an existing bridge and bridges over outstanding resource waters and trout streams.
11/05 - 03/08	**I-485 and Prosperity Church Road Interchange Categorical Exclusion, City of Charlotte/NCDOT, Mecklenburg County, NC** **Assistant Project Manager.** Kim supported planning tasks such as background research, field investigations, traffic noise analysis study and coordination with local, state and federal agencies for a CE document. Also assisted with public involvement and agency coordination through the North Carolina NEPA Section 404 Merger Process.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.				
Name	**George McLatchey, PWS, CEP**		Years of Relevant Experience with this Employer	27
Title	Environmental Division Manager		Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization		BS/1991/Microbiology | MS/1995/Soil and Water Science/Environmental Engineering Sciences		
Active Registration Number/State/Expiration Date		PWS#1259/FL/05-22-2025 | CEP#10050430/FL/12-31-2024		
Year Registered	PWS - 2000 CEP - 2010	Discipline	NEPA	
Contract Role(s)/Brief Description of Responsibilities		Environmental and Permitting Services		

For these contracts, George will manage environmental assessments and permitting processes for transportation projects. He will conduct thorough evaluations to identify potential impacts on natural resources and communities, ensuring compliance with environmental regulations. George has extensive experience in all phases of design, including project management, and has worked on numerous projects involving environmental planning, design, and permitting. His specialties include federal, state, and local environmental permitting, NEPA compliance, mitigation design, wetland delineations, listed species studies, wildlife surveys, ecological monitoring, water quality studies, alternative corridor analysis, and public involvement.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, FDOT District Five, Seminole County, FL** **Environmental Manager** responsible for the Gopher Tortoise permitting and relocation activities for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck. Permits from the Florida Fish and Wildlife Conservation Commission were obtained for Gopher Tortoise survey, excavation, and relocation.
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Environmental Manager** responsible for wildlife surveys, quality control reviews of documents and obtaining the Conservation Permit from the Florida Fish and Wildlife Conservation Commission to relocate 438 tortoises from the 917-acre project area on this new 4-lane limited access all-electronic toll facility. Included Bridge Development Reports, structural calculations and plans production for five sites along SR 589 and one pedestrian bridge site over US 98 all using Florida-I Beams. Three of the sites consist of twin overpass structures along SR 589. One site consists of a 2-span structure over SR 589 with aesthetic piers. The final site consists of twin bridges over a Wildlife Crossing. All sites include the design of MSE retaining walls. Plans included the design of roadway, drainage, signing and pavement markings, structures, lighting, signals, intelligent transportation systems, environmental permitting and surveying. The project included conducting a variety of natural resource surveys, planning and permitting services. USFWS, Florida Fish and Wildlife Conservation Commission and FNAI personnel were consulted to develop plans to minimize and avoid impacts to sensitive habitats and listed species, including the Florida Scrub Jay, red-cockaded woodpecker, Gopher Tortoise, eastern indigo snake and protected plant species.

George McLatchey resume continued

06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Environmental Manager** for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
01/19 - 12/22	**SR 31 PD&E Study, FDOT District One, Lee County, FL** **Environmental Manager** for the PD&E study to consider the widening of SR 31 and replacement of the Wilson Pigott Bridge over the Caloosahatchee River from SR 80 to SR 78 in Lee County. Alternatives are being evaluated to determine the best option to meet the purpose of the project while avoiding and minimizing impacts to the Florida Gas Transmission line, Sweetwater Marina and natural resources. Responsible for preparing the Natural Resources Evaluation report and Essential Fish Habitat Assessment in accordance with FDOT/FHWA standards to ensure NEPA approval and that the project moves forward successfully through design and permitting.
07/18 - 12/21	**5th Street over Yacht Club Cut Bridge Replacement, City of New Smyrna Beach, Volusia County, FL** **Environmental Manager** responsible for staff conducting wetland delineation, seagrass and mangrove surveys, permitting, mitigation plan development and obtaining environmental clearances for this bridge replacement project. The facility is a 2-lane roadway providing access from the mainland to an island community and marina. The project included two public meetings; one in person and one virtual. A Type I Categorical Exclusion was approved for the project. Mitigation planning included establishing an off-site preservation area and relocating oysters within the project footprint. US Coast Guard and National Marine Fisheries Services coordination and environmental permitting with the St. Johns River Water Management District (SJRWMD) and USACE was completed. This project includes PD&E study, public meeting coordination, Coast Guard coordination, mitigation and environmental permitting, geotechnical investigations, survey, right-of-way mapping, utility coordination, roadway, drainage, coastal hydraulics, structures, lighting and signing and pavement marking. This is a LAP project between the City of New Smyrna Beach and District Five.
06/16 - 12/21	**SR 91 (Florida's Turnpike Mainline) Widening from Beulah to SR 50 Interchange (MP 269-273), Florida's Turnpike Enterprise, Orange County, FL** **Environmental Manager** responsible for biologists conducting wetland assessments, threatened and endangered species surveys and environmental permitting and mitigation planning with the St. John's River Water Management District and US Army Corps of Engineers for widening of five miles of the Mainline Turnpike from Beulah Road to SR 50 in Clermont. The design widened the road from 4-lanes to 8-lanes, reconstructed three bridges, widened two bridges and redesigned the SR 50 Interchange to a diamond configuration. The project also included widening 1-mile of SR 50. Staff conducted surveys and prepared documents for Section 7 consultation with the United States Fish and Wildlife Service for proposed impacts to the federally-threatened sand skink and assisted with bat and Gopher Tortoise surveys of the project area and preparation of documents for obtaining a Florida Fish and Wildlife Conservation Commission Gopher Tortoise conservation permit.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Rachel Schmidt, PWS**			Years of Relevant Experience with this Employer	5
Title	Environmental Department Manager			Years of Relevant Experience with Other(s) Employers	5
Degree(s)/Years/Specialization			BS/2014/Environmental Science		
Active Registration Number/State/Expiration Date			PWS#3530/06-13-2027		
Year Registered	2022	Discipline	NEPA		
Contract Role(s)/Brief Description of Responsibilities			Environmental Surveys/Documentation/GIS Mapping		

For these contracts, Rachel will conduct comprehensive environmental surveys, document findings, and utilize GIS mapping tools. She will assess project sites for ecological sensitivity, cultural resources, and potential environmental impacts. By integrating data into GIS platforms, Rachel will create visual representations that inform decision-making and regulatory compliance. Rachel brings extensive experience in Florida, specializing in wetland delineations, protected species surveys, state and local permitting, and project documentation preparation. With a deep understanding of regional ecosystems and regulatory frameworks, she adopts a solution-oriented approach throughout project lifecycles. Rachel's responsibilities extend to wetland assessments, GIS mapping, habitat evaluation, vegetation monitoring, and mitigation planning.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Environmental Scientist** responsible for several environmental components of a large transportation construction project. Project duties include ongoing permitting and modifications through St. Johns River Water Management District and gopher tortoise relocations out of the proposed alignment and limits of construction through Florida Fish and Wildlife Conservation Commission for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck. Permits from the Florida Fish and Wildlife Conservation Commission were obtained for Gopher Tortoise survey, excavation, and relocation.
01/19-12/22	**SR 31 PD&E Study, FDOT District One, Lee County, FL** **Senior Environmental Scientist** responsible for the preparation of the Natural Resources Evaluation Report, agency and stakeholder coordination, technical document review, and preparation of the state, federal, and local permits for the PD&E study to consider the widening of SR 31 and replacement of the Wilson Pigott Bridge over the Caloosahatchee River from SR 80 to SR 78 in Lee County. Alternatives are being evaluated to determine the best option to meet the purpose of the project while avoiding and minimizing impacts to the Florida Gas Transmission line, Sweetwater Marina and natural resources. Multiple roadway alignments and bridge configurations were considered in an effort to avoid Florida Gas Transmission lines, minimize wetland impacts and to maintain access to an existing marina on the southern shoreline. Assessment is in accordance with FDOT/FHWA standards to ensure NEPA approval and that the project moves forward successfully through design and permitting.
10/20 - Ongoing	**SR 373 (Orange Avenue) PD&E Study, FDOT District Three, Leon County, FL** **Environmental Scientist** responsible for assisting with the GIS analysis, wetland delineation and general wildlife surveys and this information was utilized in the development of the Natural Resources Evaluation report. This feasibility study and PD&E study to consider the widening of SR 373 (Orange Avenue) from a 2-lane to a 4-lane typical section with bike lanes and sidewalks. The limits of the project are from SR 263 (Capital Circle) to SR 61 (South Monroe Street), approximately 4.35-miles.

Rachel Schmidt resume continued

06/18 - 05/21	**SR 50 Widening, FDOT Districts Five and Seven, Hernando and Sumter Counties, FL** **Senior Environmental Scientist** responsible for the environmental resource permitting, report preparation, coordination with several agencies including state, federal, and local agencies, GIS analysis, threatened and endangered species surveys to support the widening of eight miles of SR 50 from 2-lanes to 4-lanes from east of US 301 to east of CR 757. This project's regulatory agency was assumed by the FDEP in the final phases of the project and was issued the 1st Section 404 permit from FDEP. The project extends through the Withlacoochee State Forest and involves extensive environmental coordination with US Fish and Wildlife Service, Southwest Florida Water Management District, US Forestry Service, Acquisition and Restoration Council, two FDOT Districts and local agencies. New bridges were designed at the existing CSX railroad crossing and Little Withlacoochee River. Project includes roadway, drainage, bridges, signing and pavement marking, maintenance of traffic, environmental permitting, right-of-way mapping, and public involvement.
05/20-05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), Central Florida Expressway Authority, Osceola County, FL** **Environmental Scientist** responsible for preparing and obtaining three phases of environmental resource permits from regulatory agencies for this $92.6 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.
03/20 - Ongoing	**SR 8 over SR 10 at Nine Mile Road Interchange Improvements, FDOT District Three, Escambia County, FL** **Environmental Scientist** for permitting services for interchange improvements and to replace the existing structurally deficient 2-lane westbound bridge on SR 8 (I-10) over SR 10 (Nine Mile Road) in Escambia County. Rachel is responsible for the environmental resource permitting, report preparation, coordination with state and federal agencies, GIS analysis, wetland delineation and threatened and endangered species surveys. Project includes drainage, intelligent transportation systems, right-of-way, maintenance of traffic, utility coordination, environmental permitting, signing and pavement marking, and subsurface utility engineering.
12/21 - Ongoing	**SR 589 (Suncoast Parkway 2) from CR 486 to CR 495 (MP 70.3 - 75.5), Florida's Turnpike Enterprise, Citrus County, FL** **Senior Environmental Scientist** for the proposed Suncoast Parkway 2 Phase 3A from CR 486 to CR 495. Responsibilities included coordination with USFWS and FFWCC to develop and conduct species-specific surveys along the proposed alignment for the Florida Scrub-Jay, Southeastern American Kestrel, Florida Burrowing Owl and Gopher Tortoise. Approved survey methodology was utilized to identify, document and report the locations of the protected species along the corridor. Rachel consulted with USFWS and FFWCC personnel to develop habitat management plans to minimize and/or avoid impacts to these listed species. Rachel is also responsible for preparation of the pond siting report, and state and federal permitting required for the construction of the proposed new roadway for four bridge sites along this new 4-lane limited access all electronic toll facility. Two sites consist of parallel northbound and southbound mainline bridges over CR 486 and North Reynolds Avenue, and two sites consist of 2-span overpass structures over SR 589 with aesthetic piers. All bridges are comprised of Florida-I Beams founded on 24-inch diameter steel pipe piles. All sites include the design of MSE retaining walls. Plans included the design of roadway, drainage, signing and pavement markings, structures, lighting, signals, intelligent transportation systems, environmental permitting, and surveying.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Alexis Verson, AICP**	Years of Relevant Experience with this Employer	4
Title	Planning Practice Lead	Years of Relevant Experience with Other(s) Employers	9
Degree(s)/Years/Specialization	MA/2019/Strategic Communication | BS/2012/Urban Planning		
Active Registration Number/State/Expiration Date	AICP#33461		
Year Registered	2021	Discipline	Planning
Contract Role(s)/Brief Description of Responsibilities	Transportation Planner/Multimodal/Grant Writing		

For these contracts, Alexis will be responsible for developing comprehensive transportation plans that integrate various modes of transportation, such as public transit, cycling, and walking. She will analyze transportation needs, conduct feasibility studies, and identify funding opportunities through grant writing. Alexis, a senior planner with 13 years of experience in both public and private sectors, specializes in transit and multimodal transportation planning across the Rocky Mountain and Southwest regions. Her expertise spans transit planning, active transportation, long-range and corridor planning, and capital project development. Drawing from her tenure as a transportation planner in Salt Lake City and Park City, Alexis prioritizes community context, considering factors like land use, economic development, and equity in transportation solutions. She has particular experience in first/last mile connections, station area planning, transit-oriented development, and integrating multimodal designs in complex urban settings. Additionally, Alexis excels as a grant specialist, securing various local and federal grants from FTA, FHWA, WFRC, and UDOT funding sources.

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).
06/21 - 04/24	**I-15; EIS from Farmington to Salt Lake City, Davis and Salt Lake Counties, UT** **Connected Communities Manger/Senior Multimodal Planner.** Alexis is leading the Connected Communities team for the EIS and focusing on using data and community input to determine needs for walking, biking, and accessing transit in the study area. She is guiding her team to collect big data using the Street Light Data platform to understand travel behavior and trip details, conducting boots-on-the-ground walking audits and workshops, and developing multimodal recommendations to better connect people to and through multimodal recommendations to better connect people to and through the I-15 corridor. Alexis conducted five safety walking audits and workshops with multiple communities along the I-15 corridor to better understand gaps in the nonmotorized network and aid in determining solutions that will reduce the barrier that I-15 creates for disadvantaged communities needing to travel east and west. This included walk audit brochures, demographic and equity analyses, presentations on best practices, and active transportation design toolkits that convey technical information in comprehensive yet simplified visual formats.
04/23 - Ongoing	**TechLink Transit Study, Salt Lake County, UT** **Deputy Project Manager.** Alexis is the deputy project manager on this RAISE grant-funded Planning and Environmental Linkages study with UTA, Salt Lake City, and the University of Utah. This study is assessing new TRAX service between the Salt Lake City International Airport and the University of Utah/Research Park and extending a new TRAX line into the Granary District south of downtown. Alexis led the existing conditions data collection and reporting, the Purpose and Need development, and is now focused on developing measurable screening criteria to evaluate and refine alternatives. This Horrocks-led team (with support from Parsons, Hatch, and RSG) is driving the study outcomes in a condensed timeline, while also producing NEPA-related deliverables to seamlessly transition into environmental, design, and construction in anticipation of a future Olympic bid.

Alexis Verson resume continued

10/20 - 01/22	**South Utah County Transit Study Analysis, Utah County, UT** **Senior Transit/Transportation Planner.** This project focused on using the regional travel demand model to understand future travel patterns in Utah County, and model recommended transportation network solutions that were above and beyond the RTP (TransPlan50) to help accommodate growth and reduce delay. Using that information, costs were estimated for advancing the priority projects. Alexis provided transportation planning and stakeholder engagement support for this transit alternatives analysis. Alexis evaluated options to provide expanded transit service into southern Utah County from Provo to Santaquin. Horrocks, Parametrix, and Hatch LTK teamed to provide concept design development including Commuter Rail and Bus Rapid Transit, evaluate ridership, travel times, and O&M costs. Alexis provided analysis, written documentation of existing and future conditions, and development of final reports and deliverables. Alexis helped facilitate extensive coordination with UDOT, MAG, and the five municipalities in the project area. The study identified commuter rail as the Locally Preferred Alternative and the study will move into environmental review and more detailed design.
05/20 - 05/21	**I-15; Statewide Study, Statewide, UT** **Senior Transit/Transportation Planner.** Statewide study of I-15 to develop a data-driven tool identifying needs, conflicts, and competing priorities on I-15. Analysis involved detailed examination of all statewide models to pinpoint gaps in projects, provide projections of future needs, resolve conflicting future lanes data, identify frontage road gaps, and assess footprint for ultimate buildout. The study team conducted facilitated discussions of priorities with all four UDOT regions and multiple divisions at Central and UDOT leadership. Alexis was responsible for facilitating regional and statewide meetings, synthesizing information related to goals, themes, and needs for the corridor, and helping to develop a statewide tool to help manage the I-15 corridor.
04/22 - 01/24	**Snake River Crossing Study, Twin Falls, ID** **Planning Lead.** Horrocks was selected by the Idaho Department of Transportation (ITD) District 4 as the prime consultant to complete the Snake River Crossing Study near Twin Falls. The Snake River Canyon is a significant obstacle for transportation in South Central Idaho. Three existing crossing locations in Twin Falls, Jerome, and Gooding counties have been utilized for nearly a century. The primary crossing for traffic accessing Twin Falls is at the US-93 Perrine Bridge, which is expected to reach functional capacity within a decade. Access across the canyon and discussion of a new crossing has been discussed locally for over 40 years. The study will investigate capacity improvements across the Snake River and identify potential locations for a new crossing. Alexis assisted in project management tasks, stakeholder meetings, site visits, and the development of a comprehensive planning and traffic report.
06/21 - 11/22	**Highland Drive Feasibility Study, Holladay, UT** **Transportation Planning Lead.** This study focused on re-designing the Highland Drive Corridor in anticipation of a RTP-funded reconstruction project in the future to better meet the City's complete street and transit goals. Horrocks compiled existing data and conditions; reviewed past plans and city goals; developed four complete street concept-level cross sections; identified utilities, ROW easements, and preliminary costs estimates; and worked closely with the City staff, elected officials, stakeholders, and the public to select a preferred design. Horrocks facilitated multiple Council and Planning Commission discussions and developed grant application content for the city to submit for construction funds for the selected design. Alexis facilitated multiple Council and Planning Commission discussions and will now develop grant application content for the city to submit for construction funds for the selected design.

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks					
Name	**Ryan Pitts, LA, PLA**			Years of Relevant Experience with this Employer	18
Title	Environmental Project Manager			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			MLA/2006/Landscape Architecture | BS/2003/Horticulture		
Active Registration Number/State/Expiration Date			PLA#6504200-5301/UT/4-17-2024 | LA#16764/ID/4-17-2024		
Year Registered	2010	Discipline	Landscape Architecture		
Contract Role(s)/Brief Description of Responsibilities		Environmental and Permitting Services/Landscape Architecture			

For these contracts, Ryan will manage environmental assessments and permitting processes while integrating landscape architecture principles. He will conduct environmental surveys, assess landscape impacts, and ensure regulatory compliance. Additionally, he will design aesthetically pleasing and environmentally sustainable landscapes that enhance transportation infrastructure. Ryan, an environmental lead and project manager with 18 years of experience, excels in bringing people together to achieve project goals. He has a strong understanding of NEPA and UDOT's Environmental Process Manual, demonstrated through his work on projects like the Bangerter Highway Corridor Environmental Study. Ryan efficiently manages schedules and budgets, as seen in the 1600 North Orem State Environmental Study. He is known for effective communication, adapting outreach strategies during the COVID-19 pandemic for projects like the I-15 Springville to Spanish Fork Interchange Environmental Study. With over 100 projects completed, Ryan offers a wealth of experience to his clients.

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).
08/18 - 08/20 SECTION 17 PROJECT	**US-89; Farmington to I-84 Progressive Design-Build, Davis County, UT** **Environmental Project Manager.** The US-89, Farmington to I-84 project has improved the safety and mobility on the corridor and in the project area by reconstructing and widening 12 miles of US-89 and converting it from a four-lane highway to a six-lane, grade-separated expressway. Many new local road connections had to be modified or added as a result. Horrocks completed the State Environmental Study (SES) in 2018 and the Phase 1 Design in 2019. Phase 2 design was completed in 2020, and construction was completed at the end of June 2023 via Progressive Design-Build (PDB). Relevant Elements (PDB): Development and geometric layout for new local frontage road connections (Hobbs Creek Dr in Layton), ROW, survey, SUE, utility relocations/third-party coordination, and drainage design (hydrologic analysis/models, SWPPP preparation, culvert analysis, detention/retention, etc.) Relevant Elements (SES): Development of P&N, alternatives analysis, identification of environmental resource impacts with detailed analyses for land use, ROW, relocations, pedestrian/bicyclist, air quality, noise, water resources, WoUS, cultural resources, historic architecture, RLS, ILS, DOEFOE, visual conditions, Section 6(f), and PI with extensive stakeholder outreach. Ryan was responsible for the Waters of the U.S./wetlands delineation, Section 404 compliance, coordinating with the Bureau of Reclamation, the owner, design, and property owners on noise walls, and coordinating the environmental staff.
09/21 - 04/23	**1600 North Environmental Study, Orem, UT** **Environmental Project Manager.** Horrocks and Avenue Consultants were selected to complete a State Environmental Study (SES) to evaluate the 1600 North corridor in Orem, Utah. The study will identify long-term mobility solutions on 1600 North between 1350 West and State Street and includes extensive public involvement. Ryan's project management tasks include managing the team by fostering collaboration and communication between disciplines to deliver an SES. His past and current SES work provides him with a unique perspective and understanding of the SES process, working with UDOT to determine the appropriate amount of documentation.

Ryan Pitts resume continued

04/15 - 01/19	**Purgatory Road Environmental Study, Washington County, UT** **Environmental Project Manager.** Horrocks completed an Environmental Assessment (EA) to evaluate the construction of a new road on new alignment from SR-9 in the City of Hurricane to Southern Parkway in Washington City, Utah through an area known as Purgatory Flats. The scope of work included all aspects of preparing the EA, including traffic modeling, survey, preliminary design, and environmental studies. The EA was initiated by the cities, county, and the local MPO in cooperation with the Utah Department of Transportation to better understand the need for a roadway connection between these two state routes, evaluate potential impacts, and to define and preserve a roadway corridor prior to anticipated development pressure. Key elements included travel demand and traffic modeling, alternative development, roadway on new alignment, new bridge crossing the Virgin River, coordination for BLM lands designated for recreation, archaeology, and threatened and endangered species, including the preparation of a Biological Assessment. Ryan conducted field surveys for T&E plant species along the preferred alternative and discovered an undocumented dwarf bear-poppy population. He also prepared a BA and an Induced Growth Memo.
10/09 - 12/12	**I-15; Mile Post 0-16 Environmental Assessment and Noise Study, Washington County, UT** **Environmental Project Manager.** Horrocks performed preliminary design, completed a NEPA Environmental Assessment (EA), and documented all potential impacts for proposed I-15 corridor improvements between MP-0 and MP-16 in southwestern Utah. Key concerns along the corridor included traffic capacity, threatened and endangered species, archaeology, and noise. The project provided context-sensitive solutions that met project needs, enhanced the community, and were compatible with the natural and built environment. The analysis considered no-action along with all reasonable build alternatives to meet the transportation needs of the area. It also included an evaluation of mainline and interchange capacity and function, along with local circulation and cross streets over/under I-15. Horrocks provided an appropriate level of engineering design to complete the EA including widening I-15 and reconstructing four interchanges. A phasing plan was developed for the Preferred Alternative which has allowed advancement of individual projects, corresponding to transportation needs and availability of funding. Key elements included: scoping; travel demand and traffic modeling; alternative development with a phasing approach; archaeology; historic architecture; Section 4(f) analysis; threatened and endangered species surveys; preparation of a Biological Assessment; noise analysis; aquatic resource delineation; visual analyses; and public involvement. Ryan was responsible for managing the environmental components and ensuring the work meets the FHWA and NEPA PEL requirements.
10/09 - 12/12	**Bangerter Highway Improvements Design-Build Program Management, Salt Lake County, UT** **Environmental Project Manager.** The Bangerter Highway Interchange Improvements project showcases how our project partners benefit from our diverse planning, design team, and experience. This project in Salt Lake County increases the efficiency of access to Bangerter Highway by separating the grades at existing signaled intersections, while minimizing the impact of the new interchange footprints on the community by offering the best interchange design solution. As the Project Manager, Horrocks Engineers performed engineering surveys, extensive environmental documentation, major utilities realignments, developed design documents, engaged in extensive public outreach efforts, and worked with local property owners to acquire the necessary ROW to successfully develop these new interchanges. Horrocks also provided the design and landscape aesthetics for the improvements. As the project manager, Ryan performed extensive environmental documentation, developed design documents, and engaged in extensive public outreach efforts. Ryan also provided the design and landscape aesthetics for the improvements.
11/17 - 05/18	**I-84, Caldwell to Karcher Environmental Study, Canyon County, ID** **Environmental Project Manager.** Horrocks prepared traffic studies, corridor planning, and environmental clearance documents on I-84 between Caldwell and Nampa in Canyon County. The traffic studies and corridor plan recommended construction of additional general-purpose lanes, bridge reconstruction, and interchange improvements. Ryan performed preliminary field studies for biological resources. His efforts included studying the Waters of the US (WoUS), wetlands, and Threatened and Endangered (T&E) species.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.				
Name	**Josh Norman**		Years of Relevant Experience with this Employer	>1
Title	Resiliency and Sustainability Practice Leader		Years of Relevant Experience with Other(s) Employers	26
Degree(s)/Years/Specialization		AS/2015/Fire Science | BS/2015/Emergency Administration and Planning		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Grant Writing - Hurricane Recovery		

For these contracts, Josh will focus on securing funding to support transportation infrastructure restoration and resilience efforts following hurricanes. He will identify grant opportunities, prepare grant applications, and advocate for funding to rebuild and strengthen transportation systems impacted by hurricanes. The majority of Josh's experience is within the field of emergency planning, response, mitigation, resilience, and disaster recovery. He has 17 years of experience in program and project management and inter-governmental relations. He has developed and administered more than $1 billion in grants, including new construction, repair, and retrofit for various infrastructure and government facilities. He served as recovery manager for the City of New Orleans during Hurricane Katrina recovery and has since served as Principal, Program Manager, and Subject Matter Expert for clients across the country in approximately 25 named disasters.

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).
10/05 - 06/12	**City of New Orleans, Public Assistance Program, LA** **Program Manager.** Josh managed a team of 15 to 30 professionals whose duties included obtaining and managing recovery-related documentation for the creation of the Federal Emergency Management Agency grants, assisting in damage assessment, project scope development, cost estimating, and presenting recovery documentation in a format that was clear and precise for government officials. Mr. Norman was also responsible for financial and status reporting to executive staff and working with finance and budget departments in the preparation of ordinances and appropriations related to recovery funding. He also provided project management expertise for damage evaluation and assessment for 13,600 street segments in Orleans Parish on very short deadlines resulting in the timely and accurate submittal of documentation to the Federal Emergency Management Agency and more than $250,000,000 in obligated funding to date.
05/07	**City of New Orleans Hurricane Katrina, Fleet Continuity Plan, LA** **Program Manager.** Josh developed plan for the New Orleans' Equipment Maintenance Department to track and protect the City's fleet during disaster. Created custom plan for various vehicle types and departments, identifying secure and protected locations and storage, and retrieval protocol following an emergency declaration.
06/07 - 06/12	**City of New Orleans, Public Works Infrastructure Repair Program, LA** **Program Manager.** Josh managed a team of seven professionals with surge of 20 to perform damage evaluation and assessment for 13,600 street segments in Orleans Parish on very short deadlines resulting in the timely and accurate submittal of documentation to the Federal Emergency Management Agency. Served as program manager to repair approved damages utilizing 5 CEI and five Contract firms. Oversaw daily quantity reporting and change order process for all 5 contracts. Validated all expenses and completed payment recommendations. Provided routine progress reports to Department and used construction efforts to negotiate with FEMA to increase funding from $33 million to more than $250 million in obligated grants.
09/15 - 09/18	**Severe Storms and Flooding Infrastructure Repairs, Berkeley County, SC** Josh managed grant processes for severe weather events, led debris management operations post-Hurricane Matthew, and successfully appealed for road repair funding. Implemented hazard mitigation efforts, including surface overlays (chip-seal), culvert upgrades, sidewall reinforcement, and the addition of Geotechnical fabric, for roads, landfills, parks, gardens, and city buildings.

Josh Norman resume continued

02/19 - 12/21	**Hurricane Michael and Sally Recovery, Jackson County, FL** Josh oversaw disaster recovery program management, which involved the organizational design of the Recovery Management Office, creation of an Administrative Plan, and a long-term recovery strategy. Conducted assessments for $100 million in road damages, integrating Hazard Mitigation efforts to diminish future washouts through culvert upgrades, sidewall reinforcement, and the application of Geotechnical fabric.
03/12 - 05/12	**Disaster Recovery Management, City of Springfield, MA** Josh coordinated the city's recovery from four federal disaster declarations, increasing funding by $32 million for two facilities through precise cost estimation and design-build strategies. Established a comprehensive recovery organization and communication plan encompassing document management, financial tracking, and project management, contributing to a $3 billion recovery effort.
09/08 - 12/12	**Hurricane Ike Recovery, State of Texas General Land Office, Austin, TX** **Principle in Charge and Technical Specialist.** Josh assisted the Texas General Land Office with disaster recovery grant development, including hazard mitigation proposals for clay core dunes to protect coastal roads and infrastructure. Crafted a hazard mitigation proposal for a 7-mile coastal road using nature-based solutions, supported successful appeals for debris removal funding, and managed complex grant applications for marine and coastal restoration, totaling over $100 million in development and administration
10/17 - 12/19	**Hurricane Harvey Recovery, Lone Star College, Houston, TX** Josh managed a team of federal policy professionals in damage assessment and grant development for Lone Star College following Hurricane Harvey, leveraging the new FEMA Delivery Model and Grants Portal. Formulated grants addressing emergency remediation and damages to lighting, fencing, and college facilities due to flooding.
08/17 - 12/20	**Hurricane Irma Recovery, Palm Beach School District, FL** Josh led a team in damage assessment and grant development after Hurricane Irma, utilizing the new FEMA Delivery Model and Grants Portal. Developed grants covering debris removal, emergency measures, and repairs to school district facilities, including lights, fences, playgrounds, roofs, and other structural damages.
05/13 - 10/13	**Severe Storms and Flooding DR-4139/DR-4177 Infrastructure Damage, Florida Department of Emergency Management, Walton and Bay Counties, FL** **State Liaison.** Josh served as State Liaison assisting Walton and Bay Counties with the development of Project Worksheets for infrastructure damages from severe flooding, coordinated FEMA inspections, and included hazard mitigation efforts for future flood resilience.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Jennifer Gates**			Years of Relevant Experience with this Employer	2
Title	Senior Grant Writer			Years of Relevant Experience with Other(s) Employers	26
Degree(s)/Years/Specialization			MS/2012/Public Administration and Leadership		
Active Registration Number/State/Expiration Date			N/A		
Year Registered	N/A	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Grant Writing - Safe Routes, CSS		

For these contracts, Jennifer will focus on securing funding to support initiatives aimed at promoting pedestrian and cyclist safety, as well as enhancing street design for all users. She will identify grant opportunities, prepare compelling applications, and advocate for funding to implement projects such as sidewalks, bike lanes, crosswalks, and traffic calming measures. Jennifer adeptly coordinates work plans and timelines for submissions of grant applications at local, state, and federal levels, encompassing agencies such as FEMA, NHTSA, and FTA. Her expertise extends to identifying funding opportunities for local cities and counties, maintaining meticulous records, and preparing comprehensive reports on grant activities. Notably, she has successfully secured over $6.5 million in grant funding from private foundations for projects ranging from traffic safety and injury prevention to fire prevention and communications (radio). Her proficiency also includes securing grants for initiatives such as Safe Routes to Schools and walkable communities, facilitating the establishment of sidewalks in communities and school areas to promote alternate forms of mobility and community wellness.

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).
12/13 - 01/21	**NCDOT – Statewide Traffic Operation Center (STOC) Raleigh, NC** **Project Manager and Center Director.** Jennifer oversaw the day-to-day operations of the Statewide Traffic Operations Center (STOC) and three Regional Traffic Management Centers throughout North Carolina. She spearheaded critical road construction projects such as Fortify, Bus-40, and the Monroe Expressway (Toll Project), while also initiating the expansion phase of I-540. Collaborating closely with diverse stakeholders including local citizens groups, businesses, chambers of commerce, first responders, and local municipalities to address the impacts of each project effectively. Additionally, Jennifer coordinated with key entities such as the Federal Transit Administration (FTA), NC State Highway Patrol, NC Emergency Management, and NC National Guard to ensure comprehensive coordination and seamless execution of transportation initiatives statewide. She facilitated communication and collaboration with surrounding State Departments of Transportation when appropriate to enhance regional connectivity and project efficiency.
03/23 - Ongoing	**On-Call Services and Strategic Funding Opportunities, Town of Belville, Brunswick County, NC** **Project Manager.** Jennifer assisted with parks and recreation, developing Safe Routes to Schools, and aiding in NCDOT coordination on Highway 133 Project.
05/15 - 03/18	**Indian Trail, Town of Indian Trail, Union County, NC: Grant Writer.** Jennifer's responsibilities included working alongside the Union County's Sheriff's Office annex on Operation Medicine Drop, Sidewalk, which was a walkability study for funding from National Safe Kids for local schools.
10/20 - 10/22	**Brunswick County Emergency Management, Brunswick County, NC** In this contract focusing on emergency management, Jennifer served as the Planner for major events to include COVID, Hurricane Ian, Brunswick Nuclear Plant FEMA Drill and Quarterly meeting/siren testing, Tornado- Western end of County, National Guard POC, Transportation POC, Evacuation Route Plan, EOC, and Resource Management.

Jennifer Gates resume continued

05/15 - 06/17	**Town of Waxhaw, Union County, NC** **Grant Writer.** Jennifer's responsibilities included the Sidewalk Project for Waxhaw Elementary (Safe Routes to School project), Connecting Communities – sidewalks, and the Parks and Recreation Trails program. Jennifer secured grants, including FEMA Communication and SAFER grants, and coordinated TIM Training and funding options for volunteers. Additionally, she successfully secured private foundation funding for building improvements and essential equipment upgrades.
08/18 - 04/20	**Atrium Union (then Carolina's Health Care System-Union), Union County, NC** **Grant Writer.** Jennifer served as a Grant Writer for this project with the Atrium Union. She helped establish Safe Communities and Safe Kids Programs and receive the NHTSA (National Highway Traffic Safety Administration) Grant, and participated in Traffic Count and studies for school zones, community outreach on roadway safety, wellness programs, bike safety, Operation Medicine Drop, EMS Bike Team, EMS Injury Prevention Programs, and Emergency Management.
03/12 - 05/14	**Union County Sheriff's Office, Union County, NC** **Grant Writer.** Jennifer served as Grant Writer for this contract with the Union County's Sheriff's Office. Her responsibilities include assisting with personnel equipment, enforcement funding, the traffic study on US 601 S, and funding from NCDOT for the first design-build project as a pilot to include NCSHP. Jennifer participated in the school safety program development and helped with funding for local SROs and Union County Schools.

STAFF EXPERIENCE:

Group 8 - Surveying & Mapping Team

16. STAFF EXPERIENCE:

Firm Employed By: NTB Associates, Inc.					
Name	**Paul Rossini, PLS**			Years of Relevant Experience with this Employer	37
Title	CEO/Principal			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			High School Diploma, 1980		
Active Registration Number/State/Expiration Date			PLS#4731/LA/09-30-2024		
Year Registered	1994	Discipline	Professional Surveyor		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Surveying Services QA/QC | **Meets MPR 6, 7**		

Paul will serve as NTBA contract administrator/principal-in-charge during this contract. He will sign all contracts and assist in staffing, logistics, and QA/QC for all LADOTD 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).
01/22 – 06/24 SECTION 17 PROJECT	**LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** **Principal-in-Charge** of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.
09/20 – 06/24	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400019715)** **Principal-in-Charge** of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for single beam and multibeam hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 289 sites to date throughout southern districts.
05/15 – 06/24 SECTION 17 PROJECT	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** **Principal-in-Charge** of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys, property surveys, hydrographic surveying services, QL A, B, C, and D subsurface utility designation/ locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. Currently, in the construction management support phase and addressing RFI's as needed.
09/20 – 06/24	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** **Principal-in-Charge** of contract administration, staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub-consultant to BKI.
09/20 – 06/24 SECTION 17 PROJECT	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** **Principal-in-Charge** of contract administration, staffing, logistics, and QA/QC for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub-consultant to Waggoner (formerly Sigma).
07/23 – 06/24	**LADOTD IIJA Off-System Bridge Program, District 62 (4400025041)** **Principal-in-Charge** of contract administration, staffing, logistics, and QA/QC for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.

Paul Rossini resume continued

09/14 – 06/24	**USDA/NRCS Property Surveying Services, LA (AG-7217-C-14-0010, AG-2B46-S-16-0004, & 12FPC319D0016)** **Principal-in-Charge** of contract administration, staffing, logistics, and QA/QC for property surveying services and map and plat preparation for over 9,000 acres.
04/22 – 04/23	**LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)** **Principal-in-Charge** of contract administration, staffing, coordination, and QA/QC for Static GPS Control, topographic surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.
08/18 – 11/21	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400012669)** **Principal-in-Charge** of staffing, logistics, training, and QA/QC for single beam and multibeam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout southern districts.
02/16 – 08/18	**LADOTD Retainer Contract for Hydrographic Monitoring of Existing Bridges, Statewide, LA (4400006381 & H.008768)** **Principal-in-Charge** of staffing, logistics, training, and QA/QC for single beam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 225 sites throughout the state including tasks for emergency surveys for historical floods.
11/15 – 05/17	**Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03)** **Principal-in-Charge** of fee negotiations, scope of work, staffing, logistics, and QC/QA for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
04/15 – 02/16	**LADOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5)** **Principal-in-Charge** of contract administration, staffing, coordination, and QA/QC for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating.
05/13 – 10/15	**Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown)** **Principal-in-Charge** of fee negotiations, scope of work, staffing, logistics, and QC/QA for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	**LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** **Principal-in-Charge** of fee negotiations, scope of work, staffing, logistics, and QC/QA for topographic surveying services, HDS 3D Terrestrial Laser Scanning, drainage map preparation, and QL B subsurface utility designating for bridge rehabilitation.
03/08 – 05/15	**Bossier Parish Police Jury, Hamilton Road Improvements (I-20 to Benton Road) Bossier Parish, LA (H.003849 & 700-08-0123)** **Principal-in-Charge** of fee negotiations, scope of work, staffing, logistics, and QC/QA for topographic surveys, property surveys, and final right-of-way mapping for roadway rehabilitation.
01/11 – 08/12	**LADOTD Local Road Safety Program, Sight Distance Improvements for Grigsby Road at Ranger Road in Jackson Parish, LA (737-25-0003-A & H.006511)** **Principal-in-Charge** of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, and right-of-way mapping.
07/09 – 08/12	**LADOTD Local Road Safety Program, Linear Street – Rough Edge Road in Lincoln Parish, LA (737-31-0003-A & 700-99-0444)** **Principal-in-Charge** of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for topographic and property surveys, property base maps, and final right-of-way maps.

16. STAFF EXPERIENCE:

Firm Employed By: NTB Associates, Inc.					
Name	**Patrick Staiano, PLS**			Years of Relevant Experience with this Employer	4
Title	Staff Surveyor			Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization			BS/2008/Construction Management		
Active Registration Number/State/Expiration Date			PLS#5130/LA/09-30-2025		
Year Registered	2015	Discipline	Surveying Services		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Right-of-Way | **Meets MPR 6, 7**			

Patrick will serve as NTBA project manager for property surveying services, right-of-way mapping, and title take-offs during this contract. He will manage field crews, data processing, drafting, review and certification of maps and surveys, and submittals.

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).
01/22 – 06/24 SECTION 17 PROJECT	**LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and surveys in support of QL A, B, C, & D utility designating/locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.
07/23 – 06/24	**LADOTD IIJA Off-System Bridge Program, District 62 (4400025041)** **Project Manager** managing field crews and technicians for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.
09/22 – 06/24	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS control surveys, topographic surveys, property surveys, surveys in support of QL C & D subsurface utility services, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 34 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to BKI.
09/22 – 06/24 SECTION 17 PROJECT	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS control surveys, topographic surveys, property surveys, surveys in support of QL C & D subsurface utility services, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 21 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to Waggoner (formerly Sigma).
09/22 – 06/24	**CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)** **Assistant Project Manager** assisting in the management of field crews and technicians for topographic surveys, property surveying services, title research, title take-offs, boundary and right-of-way calculations, and reviews of CADD drawings and plats for maintenance and construction projects.
09/22 – 06/24 03/18 – 02/21	**Apache Corporation, Infrastructure Improvements, Permian Basin, Reeves Counties, TX (Agency Proj. Nos. Unknown)** **Project Manager** managing property surveying services and right-of-way acquisition mapping for approximately 84 miles of infrastructure improvements. Patrick has prepared approximately 131 property acquisition plats for this project.
09/22 – 06/24 03/18 – 02/21	**Targa Pipeline, Natural Gas Gathering System, Howard and Martin Counties, TX (Agency Proj. Nos. Unknown)** **Quality Control Surveyor** reviewing drafting and property acquisition plats as well as assisting with management of property surveying services. Patrick has prepared approximately 250 property acquisition plats for this project.

Patrick Staiano resume continued

03/21 – 08/22	**MOVEBR Jefferson Hwy. at Bluebonnet Intersection Improvements, LA (City Parish No. 20-CP-HC-0046)** **Project Manager** managed field crews and technicians for topographic surveys, property surveys, and right-of-way mapping.
03/20 – 02/21	**UPRR Big Sandy Siding Survey, Upshur and Wood Counties, TX (29543/90502)** **Assistant Project Manager** performed property surveying services for 15 parcels along railroad consisting of approximately 3.24 miles of track to establish the existing railroad right-of-way. Prepared 8 ALTA Surveys along with the privately owned parcels for acquisition, 0.25 acre acquisition parcel in the right-of-way, and an overall right-of-way strip map.
09/19 – 02/20	**DCP Midstream, MaBee Ranch Line Locates, Martin and Andrews Counties, TX (19-056-001)** **Project Manager** managed property surveying services in support of property acquisition services for 32 individual pipelines totaling approximately 22 miles.
03/18 – 10/18	**Rogillio Resubdivision, East Baton Rouge & East Feliciana Parishes, LA (Agency Proj. No. Unknown)** **Assistant Project Manager** performed title take-offs, boundary, and right-of-way calculations, and reviewing CADD drawings and plats for resubdivision services for 93 acres.
04/17 – 03/18	**LADOTD LA 653 Bayou Dumar Bridge Replacement, Lafourche Parish, LA (H.008118)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5 mile project.
01/17 – 03/18	**LADOTD LA 450 Stoney Point Bridge Replacement, Washington Parish, LA (Proj. No. Unknown)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys and prepared title work info and right-of-way maps for a +/-0.25 mile project.
09/17 – 01/18	**LADOTD LA 1026: Roundabout at Buddy Ellis Rd., Livingston Parish, LA (H.011824)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.3 mile project.
10/17 – 12/17	**LADOTD US 190B Jefferson Ave. Roundabout Covington, St. Tammany Parish, LA (H.011260)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.1 mile project.
06/17 – 10/17	**LADOTD LA 22: Near I-10 Geometric Improvements, Ascension Parish, LA (H.011314)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.75 mile project.
05/17 – 09/17	**LADOTD LA 59: Roundabout @ Lonesome Rd., Tangipahoa Parish, LA (H.011030)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5 mile project.
03/16 – 08/17	**LADOTD LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish, LA (H.010184)** Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.75 mile project.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Jace Ricard, PLS**			Years of Relevant Experience with this Employer	1
Title	Land Surveyor			Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization			BS/2014/Geomatics		
Active Registration Number/State/Expiration Date			PLS#5205/LA/Surveying		
Year Registered	2019	Discipline	Surveying		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Survey Data Collection		

For these contracts, Jace, alongside NTB Associates, will lead the survey data collection efforts, ensuring they meet project requirements and regulatory standards. He will oversee the planning and execution of survey activities to gather essential data for transportation projects. Jace will coordinate survey teams, equipment, and methodologies to ensure accurate and comprehensive data collection. Jace's responsibilities will include performing topographic and bathymetric surveying, developing drainage maps, performing boundary surveying, conducting title take-offs and other associated title work, and developing right-of-way maps. By implementing quality control measures and utilizing advanced survey technologies, he will provide reliable data that informs project design, planning, and decision-making processes.

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 SECTION 17 PROJECT	**Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA** **Land Surveyor.** Jace served as the land surveyor of record for the property survey and right-of-way maps for this MOVEBR project, which included widening Hooper Road between Blackwater Road and Joor Road from an existing two-lane roadway to a four-lane boulevard with sidewalks. A total of 86 parcels were included in the right-of-way maps. Jace was responsible for performing the property survey and preparation of the property map, acquisition right-of-way maps, and recordation right-of-way maps in accordance with LADOTD standards.
06/23 - Ongoing	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA** **Land Surveyor.** Jace is the land surveyor of record for topographic survey updates and right-of-way map revisions for this MOVEBR project, which includes extending Jones Creek Road on a new alignment from Tiger Bend Road to Airline Highway. Jace prepared recordation and acquisition set right-of-way map revisions.
02/24 - Ongoing	**BREC Scotlandville Parkway Bridge Replacements, East Baton Rouge Parish, LA** **Surveyor.** Jace is the surveyor of record for this project, which includes performing topographic surveys at five sites along the Scotlandville Parkway. These surveys serve as the basis for designing new pedestrian and small vehicle bridges and channel protections along the parkway.
06/23 - Ongoing	**Mitch Road over Peters Creek, Washington Parish, LA** **Surveyor.** Jace is the surveyor of record for the topographic and property surveys and right-of-way maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed right-of-way maps.
02/24 - Ongoing	**Ardenwood-Lobdell Connector, East Baton Rouge Parish, LA** **Surveyor.** Jace is the surveyor of record for the property survey and right-of-way maps for this MOVEBR project. He is responsible for recovering existing property corners, establishing existing property locations, and preparing the right-of-way acquisition and recordation maps. All work is being performed in accordance with MOVEBR guidelines.

Jace Ricard resume continued

2017 - 06/23	**Forte and Tablada, Inc, Baton Rouge, LA** **Survey Project Manager.** Jace oversaw stormwater management and road/highway development projects. He had success in managing the budget, schedule, and client expectations on these projects. Jace was responsible for managing upwards of ten survey crews on multiple projects as well as 1-2 CAD technicians. He performed topographic and property surveys for multiple DOTD projects in accordance with Location & Survey Standards.

16. STAFF EXPERIENCE:

Firm Employed By: NTB Associates, Inc.					
Name	**Bryan Bunch, PLS**			Years of Relevant Experience with this Employer	15.5
Title	Executive Vice President			Years of Relevant Experience with Other(s) Employers	15
Degree(s)/Years/Specialization			BS/1988/Survey and Land Information Systems		
Active Registration Number/State/Expiration Date			PLS#5014/LA/03-31-2026		
Year Registered	2009	Discipline	Professional Surveyor		
Contract Role(s)/Brief Description of Responsibilities			Project Manager - Topographic Surveys		

Bryan will serve as NTBA project manager for topographic surveys during this contract. Bryan will manage survey crews, processing, drafting, and submittals for topographic surveying services. He will assist in the management of property surveys, right-of-way mapping, and title take-offs.

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).
01/22 – 06/24 SECTION 17 PROJECT	**LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** **Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, surveys in support of QL A, B, C, & D utility designating/locating, title take-offs, description preparations, and preliminary and final right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River.
09/20 – 06/24	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** **Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, surveys in support of QL C & D subsurface utility services, title take-offs, description preparations, and preliminary and final right-of-way mapping for 34 bridge and culvert replacements as a sub-consultant to BKI.
09/20 – 06/24 SECTION 17 PROJECT	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** **Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, surveys in support of QL C & D subsurface utility services, title take-offs, description preparations, preliminary and final right-of-way mapping for 21 bridge and culvert replacements as a sub-consultant to Waggoner (formerly Sigma).
07/23 – 06/24	**LADOTD IIJA Off-System Bridge Program, District 62 (4400025041)** **Quality Control Surveyor** assisting in staffing, coordination, and QA/QC for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.
08/22 – 06/24	**CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)** **Quality Control Surveyor** assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects.
12/17 – 06/24	**LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5)** **Survey Project Manager** directing field crews, file processing, drafting, and submittals for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. Task Orders continue to be assigned in additional areas as needed in conjunction with the on-going design-build contract.
04/22 – 04/23	**LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)** **Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys, surveys in support of QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.
12/20 – 03/22	**LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713)** **Survey Project Manager** directed field crews, file processing, drafting, and submittals for topographic and hydrographic surveys and surveys in support of QL C & D subsurface utility services for bridge repair/ rehabilitation.

Bryan Bunch resume continued

03/21 – 03/22	**City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)** **Survey Project Manager** managed field crews and technicians for control, topographic, and property surveys along with QL B, C, and D subsurface utility designating for approximately 1,500 feet of Ward Creek.
05/15 – 12/20 SECTION 17 PROJECT	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** **Quality Control Surveyor** supervised south LA field crews and technicians for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
12/18 – 01/20	**LADOTD LA 951: Roadway Washout Repairs, East Feliciana Parish, LA (H.013643)** **Survey Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveys, QL A, B, C, and D subsurface utility designating/locating, and surveys in support of QL A, B, C, and D subsurface utility designating/locating for approximately 2,600 feet.
11/15 – 05/17	**Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03)** **Quality Control Surveyor** assisted in staffing, coordination, and QA/QC for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
10/15 – 07/16	**LADOTD MacArthur Interchange Completion Phase II, Route US 90-Z, Jefferson Parish, LA (4400005142 & H.011309.5)** **Survey Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveying services for a new roadway connection as a sub-consultant to SDR Engineering.
05/13 – 10/15	**Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown)** **Quality Control Surveyor** assisted in staffing, coordination, and QA/QC for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	**LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** **Quality Control Surveyor** assisted in staffing, coordination, and QA/QC for topographic surveying services, drainage map preparation, and QL B subsurface utility designating for bridge rehabilitation.
02/14 – 03/15	**LADOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5)** **Project Manager** directed survey crews, file processing, drafting, and submittals for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility designating/locating for an overpass connection, relocation of existing lanes, and construction of additional lanes.
07/12 – 01/14	**LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** **Project Manager** directed survey crews, file processing, drafting, and submittals for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility designating/locating for interstate rehabilitation as a sub-consultant to GEC, Inc.
07/10 – 10/12	**LADOTD LA 42 Widening and Improvements District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538)** **Project Surveyor** directed topographic and property surveys and title work to locate all existing structures within 50 feet of proposed right-of-way. Bryan also managed the preparation of right-of-way acquisition maps for 165 parcels.
01/12 – 04/12	**LADOTD I-12 Walker to Satsuma, Livingston Parish, LA (4400001798 & H.009836.5)** **Project Surveyo**r assisted in the supervision of survey crews, file processing, drafting, and submittals for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating for interstate rehabilitation.

16. STAFF EXPERIENCE:

Firm Employed By: NTB Associates, Inc.					
Name	**John King**			Years of Relevant Experience with this Employer	17.5
Title	Supervisor Other			Years of Relevant Experience with Other(s) Employers	17
Degree(s)/Years/Specialization			Instrumentation Design Drafting, 1990/AutoCAD | 1991/ Pipe Drafting | 1992 Leica's LIDAR Scanning Courses | Cyclone Software Courses, 2013		
Active Registration Number/State/Expiration Date			N/A		
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		Survey Crew Manager			

John is chief operating officer in NTBA. He will serve as NTBA staff manager during this contract. He will oversee all staff and assist in scope, fee, scheduling, and management.

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).
01/22 – 06/24 SECTION 17 PROJECT	**LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** **Staff Manager** for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.
09/20 – 06/24	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** **Staff Manager** for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub-consultant to BKI.
09/20 – 06/24 SECTION 17 PROJECT	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** **Staff Manager** for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub-consultant to Waggoner (formerly Sigma).
07/23 – 06/24	**LADOTD IIJA Off-System Bridge Program, District 62 (4400025041)** **Staff Manager** for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.
12/17 – 06/24	**LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5)** **Staff Manager** for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. Task Orders continue to be assigned in additional areas as needed in conjunction with the on-going design-build contract.
04/22 – 04/23	**LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)** **Staff Manager** for Static GPS Control, topographic surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.
07/21 – 03/22	**LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713)** **Staff Manager** for topographic and hydrographic surveys and QL C & D subsurface utility services for bridge repair/rehabilitation.

John King resume continued

05/15 – 12/20 SECTION 17 PROJECT	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** **Staff Manager** for south LA field crews and technicians for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating.
07/19 – 02/20	**LADOTD I-10: Loyola Interchange, Kenner, Jefferson Parish, LA (H.011670)** **Staff Manager** for topographic surveys, QL B, C, and D subsurface utility designating services, and surveys in support of QL B, C, and D subsurface utility designating for approximately 5 miles.
12/18 – 01/20	**LADOTD LA 951: Roadway Washout Repairs, East Feliciana Parish, LA (H.013643)** **Staff Manager** for topographic surveys, QL A, B, C, and D subsurface utility designating/locating, surveys in support of QL A, B, C, and D subsurface utility designating/locating for road rehabilitation and bridge replacement.
03/19 – 10/19	**LADOTD US 167, LA 2: Middle Slough & Creek Bridges, Union Parish, LA (4400009385 & H. 012037.5)** **Staff Manager** for topographic surveying services for bridge rehabilitation/design for two separate bridge site locations.
06/18 – 10/18	**LADOTD I-10: Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** **Staff Manager** for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL A, B, C, and D subsurface utility designating/locating for approximately 2 miles.
05/16 – 06/18	**LADOTD LA 675 & LA 87 Improvements in New Iberia, Iberia Parish, LA (4400002562 & 4400006814)** **Staff Manager** for topographic surveys and surveys in support of QL A, B, C, and D subsurface utility designating/locating for drainage rehabilitation.
12/15 – 06/17	**LADOTD Cotton to Silo Bridge Replacement, St. Mary Parish, LA (4400003592 & H.001723.5)** **Staff Manager** for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating for roadway rehabilitation and bridge replacement.
07/16 – 03/17	**LADOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5)** **Staff Manager** for topographic surveys and surveys in support of QL B, C, and D subsurface utility designating for roadway rehabilitation.
05/16 – 12/16	**LADOTD I-110: Interchange Modifications, East Baton Rouge Parish, LA (4400006527 & H.012422.5)** **Staff Manager** for topographic surveys and surveys in support of QL B, C, and D subsurface utility designating for road design modifications.
10/15 – 07/16	**LADOTD MacArthur Interchange Completion Phase II, Route US 90-Z, Jefferson Parish, LA (4400005142 & H.011309.5)** **Staff Manager** for topographic and surveys in support of QL A, B, C, and D subsurface utility designating/locating for a new roadway connection.
04/15 – 09/15	**LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** **Staff Manager** for topographic surveying services and QL B subsurface utility designating for bridge rehabilitation.
02/14 – 03/15	**LADOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5)** **Staff Manager** for topographic surveys and surveys in support of QL A, B, C, and D subsurface utility designating/locating for an overpass connection, relocation of existing lanes, and construction of additional lanes.
07/12 – 01/14	**LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** **Staff Manager** for topographic surveys and surveys in support of QL A, B, C, and D subsurface utility designating/locating for interstate rehabilitation.

16. STAFF EXPERIENCE:

Firm Employed By: NTB Associates, Inc.					
Name	**Mike King, PLS**			Years of Relevant Experience with this Employer	17.5
Title	Vice President			Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS/2012/Construction Management		
Active Registration Number/State/Expiration Date			PLS#5127/LA/09-30-2025		
Year Registered	2015	Discipline	Professional Surveying		
Contract Role(s)/Brief Description of Responsibilities			Project Manager - Hydrographic Surveys		

Mike will serve as NTBA assistant project manager for topographic surveys and project manager for hydrographic surveys during this contract. He will oversee survey crews and assist in the management of staff and ensure quality standards and specifications are met.

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).
09/20 – 06/24	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400019715)** **Assistant Project Manager** under the direction of Grant Gilleon assisting with management of field crews, file processing, drafting, and submittal preparation for single beam and multibeam hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 289 sites to date throughout southern districts.
01/22 – 06/24 SECTION 17 PROJECT	**LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and surveys in support QL A, B, C, & D utility designating/locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.
08/21 – 06/24	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, surveys in support of QL C & D subsurface utility services, title take-offs, description preparations, and preliminary and final right-of-way mapping for 34 bridge and culvert replacements as a sub-consultant to BKI.
04/21 – 06/24 SECTION 17 PROJECT	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, surveys in support of QL C & D subsurface utility services, title take-offs, description preparations, and preliminary and final right-of-way mapping for 21 bridge and culvert replacements as a sub-consultant to Waggoner (formerly Sigma).
12/17 – 06/24	**LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5)** **Assistant Project Manager** assisting in the management of field crews and technicians for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. Task Orders continue to be assigned in additional areas as needed in conjunction with the on-going design-build contract.
08/22 – 06/24	**CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)** **Quality Control Surveyor** assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects.
04/22 – 04/23	**LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)** **Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control, topographic surveys, surveys in support of QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.

Mike King resume continued

03/21 – 03/22	**City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)** **Quality Control Surveyor** reviewed and processed data for control, topographic and property surveys along with surveys in support of QL B, C, and D subsurface utility designating services for approximately 1,500 feet of Ward Creek.
12/20 – 03/22	**LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713)** **Assistant Survey Project Manager** assisted in the management of field crews and technicians for topographic surveys, surveys in support of QL C & D subsurface utility services, and a multibeam hydrographic survey of the bridge structure piers to determine scour impact for bridge repair/ rehabilitation.
07/20 – 11/21	**LADOTD IDIQ Contract for Hydrographic Surveying Services Statewide, LA (4400012669)** **Assistant Project Manager** under the direction of Grant Gilleon assisted with management of field crews, file processing, drafting, and submittal preparation for single beam and multibeam hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout southern districts.
05/15 – 12/20 SECTION 17 PROJECT	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** **Quality Control Surveyor** reviewed data and drafting for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and surveys in support of QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
04/15 – 02/16	**LADOTD I-20 (Airline Drive to I-220) Bossier Parish, LA (4400005532 & H.011319.5)** **Quality Control Surveyor** reviewed data and drafting for topographic surveying services for interstate rehabilitation.
10/15 – 12/15	**LADOTD Caddo Lake Bridge, Route LA 1 Caddo Parish, LA (H.01166.5)** **Quality Control Surveyor** reviewed data and drafting for topographic surveys performed along a portion of the existing route of LA Hwy. 1 for a proposed bridge replacement at the intersection of Caddo Lake and LA Hwy. 1 in Caddo Parish east of Mooringsport.
05/13 – 10/15	**Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Proj. No. Unknown)** **Sr. Party Chief/ Technician** ran a field crew and downloaded data for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	**LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** **Quality Control Surveyor** reviewed data and drafting for topographic surveying services and surveys in support of QL B subsurface utility designating for bridge rehabilitation.
07/14 – 02/15	**LADOTD LA 16 Amite Drainage Improvements, Route LA 16, Tangipahoa Parish, LA (4400001798 & H.009425.5)** **Survey Party Chief/ Technician** ran a field crew and downloaded/processed data for topographic and single beam hydrographic surveying services for drainage improvements.
07/12 – 01/14	**LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5)** **Sr. Survey Party Chief/Tech.** managed a survey crew and processed data for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility designating/locating for interstate rehabilitation.

16. STAFF EXPERIENCE:

Firm Employed By: NTB Associates, Inc.					
Name	**Grant Gilleon, PLS**			Years of Relevant Experience with this Employer	16
Title	Vice President			Years of Relevant Experience with Other(s) Employers	20
Degree(s)/Years/Specialization			BS/1987/Construction Engineering Technology		
Active Registration Number/State/Expiration Date			PLS#4976/LA/03-31-2026		
Year Registered	2007	Discipline	Professional Surveyor		
Contract Role(s)/Brief Description of Responsibilities		Survey Crew Manager			
Grant will serve as NTBA quality control surveyor for surveying services during this contract. He will assist in the management of field crews, processing, and drafting.					

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).
09/20 – 06/24	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400019715)** **Project Manager** directed field crews, file processing, drafting, and submittals for single beam and multibeam hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 289 sites to date throughout southern districts.
01/23 – 06/24 SECTION 17 PROJECT	**LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779)** **Quality Control Surveyor** assisting in staffing and coordination for Static GPS control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and surveys in support QL A, B, C, & D utility designating/locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.
08/22 – 06/24	**CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)** **Project Manager** directing field crews and technicians for topographic surveys, property surveys, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects.
04/21 – 06/24 SECTION 17 PROJECT	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338)** **Quality Control Surveyor** assisting in staffing and coordination for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and surveys in support of QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub-consultant to Waggoner (formerly Sigma).
08/21 – 06/24	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337)** **Quality Control Surveyor** assisting in staffing and coordination for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and surveys in support of QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub-consultant to BKI.
05/15 – 06/24 SECTION 17 PROJECT	**City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)** **Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. Currently, in the construction management support phase and addressing RFI's as needed.
09/14 – 06/24	**USDA/NRCS Property Surveying Services, LA (AG-7217-C-14-0010, AG-2B46-S-16-0004, & 12FPC319D0016)** **Project Manager** directing field crews, file processing, drafting, and submittals for property surveying services and map/plat preparation for over 9,000 acres.

Grant Gilleon resume continued

04/22 – 04/23	**LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)** **Quality Control Surveyor** reviewing data and deliverables for Static GPS Control, topographic surveys, surveys in support of QL C & D subsurface utility designating, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.
05/21 – 12/21	**Bossier Parish Police Jury, Linton Road Cutoff Intersection Redesign, Bossier Parish, LA (BPPJ 2021-126)** **Project Manager** directed field crews for control surveys, topographic surveys, and property surveys along with QL C subsurface utility services in support of an evaluation to improve the intersection and produce a preliminary layout for a new intersection design.
08/18 – 11/21	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, LA (4400012669)** **Project Manager** directed field crews, file processing, drafting, and submittals for single beam and multibeam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout southern districts.
02/16 – 08/18	**LADOTD Retainer Contract for Hydrographic Monitoring of Existing Bridges, Statewide, LA (4400006381 & H.008768)** **Project Manager** directed field crews, file processing, drafting, and submittals for single beam hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 225 sites throughout the State including tasks for emergency surveys for historical floods.
11/15 – 05/17	**Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03)** **Project Manager** directed field crews, file processing, drafting, and submittals for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
04/15 – 02/16	**LADOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5)** **Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveying services and surveys in support of QL B, C, and D subsurface utility designating for interstate rehabilitation.
10/15 – 12/15	**LADOTD Caddo Lake Bridge, Route LA 1 Caddo Parish, LA (H.01166.5)** **Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveys performed along a portion of the existing route of LA Hwy. 1 for a proposed bridge replacement at the intersection of Caddo Lake and LA Hwy. 1 in Caddo Parish east of Mooringsport.
05/13 – 10/15	**Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown)** **Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	**LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5)** **Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveying services, drainage map preparation, and QL B subsurface utility designating for bridge rehabilitation.
03/08 – 05/15	**Bossier Parish Police Jury, Hamilton Road Improvements (I-20 to Benton Road) Bossier Parish, LA (H.003849 & 700-08-0123)** **Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveys, property surveys, and final right-of-way mapping for roadway rehabilitation.
12/12 – 12/12	**LADOTD I-49 Survey Subsurface Utilities, Caddo Parish, LA (H.00388.5)** **Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveying services and surveys in support of QL A subsurface utility locating for interstate rehabilitation.

STAFF EXPERIENCE:

Group 9 - SUE & Utility Relocation Team

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Joshua Renard, PE**			Years of Relevant Experience with this Employer	17
Title	Project Manager			Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization			BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#36015/LA/03-31-20205		
Year Registered	2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead- SUE Services & Utility Relocation | **Meets MPR 8**		

Joshua will lead subsurface utility engineering (SUE) and utility relocation support services necessary to identify, avoid, and relocate utilities, working alongside DMRP and Horrocks. He will oversee all SUE Quality Levels (A-D), ensuring accurate utility mapping. Joshua will also manage utility coordination and develop utility conflict matrices. Additionally, he will coordinate with utility owners and regulatory agencies to plan and execute utility relocations in accordance with project timelines and requirements. His extensive experience in subsurface utility investigations ensures effective management of utility-related aspects of the project, minimizing risks and maintaining project timelines.

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).
10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parish, LA (H.009250)** **Utility Coordinator.** Joshua served as the utility coordinator for this interstate design build project. He communicated with and gathered information from utility owners to ensure that the road was designed and the contractor could proceed without conflict. Joshua coordinated efforts to have telecommunications, water, and gas lines marked in the field and then led efforts to have Level A test holes performed to ensure a successful no-conflict design.
01/22 - Ongoing SECTION 17 PROJECT	**LA 408: Hooper Road (Blackwater Bayou to Joor Road) East Baton Rouge Parish, LA (H.002316/CP#12-CS-HC-0017)** **Project Manager.** Joshua was the project manager for the four-lane road widening project in the city of Central. This two-mile rural road includes a new two-lane roundabout and accommodates pedestrians, bicyclists and vehicles. His responsibilities included roadway and drainage design, plan preparation, utility coordination, and SUE services including QL-B designations and QL-A locates.
05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** **SUE Project Engineer.** Joshua designed the utility duct bank plans to relocate critical existing and new fiber optic and electrical power infrastructure. This immediate relocation served necessary for the fast upcoming I-10 widening project from LA 415 through Essen Lane.
02/24 - Ongoing	**Saline Bayou Relief & Mill Cr. Brs. Water Lines Locate & Design - SUE, Winn Parish, LA – Utility Coordination, QL-A through D Locates, & Relocation Plans** **Project Manager.** Waggoner is locating existing water lines and preparing relocation plans for 3 bridge sites on LA 126 over Saline Bayou, Mill Creek and Cypress Creek in Winn Parish, LA. Josh obtained as-builts, and performed QL-B and QL-A SUE services at each site. He is the engineer of record for the utility relocation plans.
2019 - Ongoing	**MOVEBR Program- Lead Utility Coordinator, EBR Parish, LA** Joshua serves as the main point of contact for all utility companies on 50+ Enhancement Projects on the MOVEBR transportation, road, and traffic program. He is leading the effort to create the Utility Coordination Process and Design Guidelines for Designers-Utility Section. He will serve in this role during both the design and construction phase for the program. He will also utilize SUE where appropriate to gain pertinent location information for design efforts. He will also work to ensure that relocations are successful and will resolve utility conflicts encountered during construction.

Joshua Renard resume continued

2017 - 2018	**LA 675 & LA 87 Improvements – SUE Services, New Iberia, LA (H.011781)** **Project Manager.** Joshua served as the project manager for this DOTD project, which included Level A through D underground utility location work as well as video inspection of sewer mainlines and laterals along a one mile section of Hopkins Street in New Iberia, LA. Under his guidance Waggoner (formerly Sigma) located utilities through Quality Level A-D. His responsibilities included coordination with utility companies and local government representatives to obtain as-built drawings, meeting with DOTD representatives, design engineers, surveyors and subcontractors to coordinate the location work, providing valuable utility location information to the design team.
2018 - 2019	**Subsurface Utility Engineering Causeway Blvd at Earhart, Jefferson Parish, LA** Joshua managed this utility location project for DOTD. The primary goal of this project was to locate sewer, water, and fiber lines to provide DOTD's design team with sufficient information to adjust their design to miss the utilities or have the utilities relocated. Waggoner (formerly Sigma) located utilities through all Quality Levels. He coordinated with utility owners and Waggoner's locating crew to identify, locate, and mark the utilities, as well as coordinated with Waggoner's survey team to have the lines surveyed. Based on the location crew's fieldwork he helped develop a final plan set as well as a Utility Owner Contact List and a Utility Conflict Matrix for delivery to DOTD.
2015 - 2017	**Jones Creek Road (Coursey to Tiger Bend), East Baton Rouge Parish, LA** Joshua worked directly for the City of Baton Rouge resolving construction and utility related issues in a timely manner during the construction phase of this project. This included gravity & force main sewer installation, roadway drainage installation, concrete pours, traffic lane switching, and signage. He served as the main point of contact for all utility coordination efforts and successfully managed this charge through the completion of the project.
2019	**Subsurface Utility Engineering I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Joshua coordinated with multiple utilities affected by this project. He was able to obtain detailed information on the size, type and location of the utilities in conflict or potential conflict with construction activities. These included abandoned pipelines, active fiber optic lines, buried cables with unknown ownership, and multiple utilities within KCS Railroad right of way. Joshua then led the SUE team in obtaining level A location information for these utilities.
2019	**Subsurface Utility Engineering Leesville Roundabout, Vernon Parish, LA (H.011909)** **Project Manager.** Joshua served as the project manager for this DOTD project, which included Level A through D underground utility location at the intersection of Boone Street and US 171 in Leesville, LA. Under his guidance Waggoner (formerly Sigma) located utilities through Quality Level A-D. His responsibilities included coordination with utility companies and local government representatives to obtain as-built drawings, meeting with DOTD representatives, design engineers, surveyors and subcontractors to coordinate the location work, providing valuable utility location information to the design team. He was also responsible for traffic control plan development, Level A field investigations, SUE plan development, and utility conflict matrix preparation.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Randy Tompkins, PSM, PLS, PS**			Years of Relevant Experience with this Employer	6
Title	Senior Project Manager			Years of Relevant Experience with Other(s) Employers	18
Degree(s)/Years/Specialization			BS/1999/Geomatics		
Active Registration Number/State/Expiration Date			PLS#5285/LA/3-31-2025 | PLS#22032/MS/12-31-2024 | PSM#6503/FL/02-28-2025		
Year Registered	LA - 2022 MS - 2022 FL - 2004	Discipline	Survey		
Contract Role(s)/Brief Description of Responsibilities		SUE & Utility Relocation			

For these contracts, Randy will manage the identification, mapping, and relocation of underground utilities to facilitate transportation projects. He will employ various techniques to accurately locate utilities and minimize conflicts during construction." Randy has managed a wide variety of surveying and mapping projects for multiple public-sector clients, including the US Army Corps of Engineers (USACE), US Navy Facilities Command (NAVFAC), US Marine Corps, US Fish & Wildlife, US Coast Guard, US Forest Service, Department of Defense Education Activity (DoDEA), US Space Force, US Air Force, Department of Homeland Security, Florida Department of Environmental Protection, and JEA (NE Florida Regional Utility). He also has extensive experience in subsurface utility engineering, geodetic-control surveys, right-of-way, boundary, topographic, hydrographic, as-built, asset, GIS, and quantity surveys.

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 - 05/18 SECTION 17 PROJECT	**Belle Terre Corridor Intersection Improvements, City of Palm Coast, Flagler County, FL** **Project Surveyor** on this design surveying services for nine intersections in the City of Palm Coast. Eight intersections were along the Belle Terre corridor and one was on US 1 at Wellfield Drive. Services included horizontal and vertical control, recovery of the corridor alignment, and right-of-way, topographic 3D survey with a full digital terrain model of the project corridor. Subsurface Utility Engineering (SUE) to designate utilities along the project corridor. SUE Locates (VVH's) (soft digs) to verify exact location of utilities. Project deliverables included MicroStation design files.
08/19 - 09/19 SECTION 17 PROJECT	**Helen Cooper Floyd Park, City of Jacksonville, Duval County, FL** **Project Manager** for a 25-acre Mean High Water (Tidal) boundary survey on this peninsula bounded by the St. Johns River, Intracoastal Waterway, Chicopit Bay, and Florida SR A1A. DRMP provided professional surveying and mapping services for the City of Jacksonville and the US Navy Facilities Command, South East. The research included reviewing the Original Government Land Office plats and surveyors' notes from 1833, the plat of Mayport, Dated 1910 and recorded in Plat Book 3, Page 65, plat of the Intracoastal Waterway, Dated 1931, deeds recorded in the Duval County records dating back to the 1950s when the United States of American performed Adverse Possession, Deeds or Agreements Recorded in the Public Records of the State of Florida Archives and Florida Department of Transportation Right-of-Way Maps from 1951. Services included a Water Boundary Survey, since several of the boundary lines were based in tidal waters, an ALTA/NSPS Land Title Survey, and coordination with the FDEP.

Randy Tompkins resume continued

05/20 - 10/20	**Professional Surveying Services for P-505 Electrical Hardening and Black Start CHP, MCAS Beaufort, SC, Naval Facilities Command (NAVFAC), Mid-Atlantic** **Project Surveyor** for this 17-mile Route Survey to support the Design of New Underground Electrical Infrastructure for Marine Corps Air Station Beaufort. Randy was responsible for managing all Surveying activities for Topographic and Subsurface Utility Engineering Designation (SUE). The project included approximately 28 miles of control leveling, 12 miles of Mobile LiDAR Collection, data collection on active high-security airplane tarmac and runway and setting permanent survey control points. Project Control was referenced to South Carolina Stata Plane Coordinate System, North American Datum of 1983, Adjustment 2011 (NAD83(2011)) and North American Vertical Datum of 1988 (NAVD88). Deliverables included AutoDesk Civil 3D 2020 in NAVFAC CAD Standards. The Subsurface utility engineering tasks included utility designation (CI/ASCE 38-02 QL-B) for 12 of the 17 miles. More than 341,000-LF of underground utilities were mapped to support the design effort.
04/19 - 07/19	**Professional Surveying Services for JEA 099-18 US 1 Bartram and St. Johns Forest WTP, Mott MacDonald for JEA, Flagler County, FL** **Project Surveyor** for this 17,500-LF Route to support the design of a new 24-inch Water Main. Randy was responsible for managing all surveying activities for topographic and subsurface utility designation. The project included 6+ miles of control leveling, crossing 1320 feet of tidal creek bottom, wetlands, soil borings, Railroad right-of-way crossing, and Interstate 95 Crossing. Project control was referenced to Florida State Plane Coordinate System, East Zone, North American Datum of 1983, Adjustment 2011 (NAD83(2011)), and North American Vertical Datum of 1988 (NAVD88). Deliverables were provided in AutoDesk Civil 3d 2016. The Subsurface utility engineering tasks included utility designation (CI/ASCE 38-02 QL-B) for the entire limits. More than 100,000-LF of underground utilities were mapped to support the design effort. Subsurface utility engineering tasks also included 60 utility location (CI/ASCE 38-02 QL-A) of VVH test holes for utility conflicts.
06/19 - 09/19	**Professional Surveying Services for JEA 112-18 Imeson to W 5th Street, Mott MacDonald for JEA, Flagler County, FL** **Project Surveyor** for this 17,000 LF Route to support the design of a new 20-inch Force Main. Randy was responsible for managing all surveying activities for topographic and subsurface utility designation. The project included 10+ miles of control leveling, working along an industrial 2-lane street, along elementary school property, wetlands, soil borings, multiple Railroad right-of-way crossings, and Interstate 295 Crossing. Project control was referenced to Florida State Plane Coordinate System, East Zone, North American Datum of 1983, Adjustment 2011 (NAD83(2011)), and North American Vertical Datum of 1988 (NAVD88). Deliverables were provided in AutoDesk Civil 3d 2016. The Subsurface utility engineering tasks included utility designation (CI/ASCE 38-02 QL-B) for the entire limits. More than 100,000-LF of underground utilities were mapped to support the design effort. Subsurface utility engineering tasks also included 50 utility location (CI/ASCE 38-02 QL-A) of VVH test holes for utility conflicts.
10/19 - 01/20	**Professional Surveying Services for JEA 040-19 Greenland Water Reclamation Pipelines, Mott MacDonald for JEA, St. Johns and Duval Counties, FL** **Project Surveyor** for this 37,000-LF Route to support the design of a new 20-inch force main and water main. Randy was responsible for managing all surveying activities for topographic and subsurface utility designation. The project included approximately 14 miles of control leveling, working along US Highway#1, along and on 4.5 miles of railroad right-of-way, wetlands, soil borings, and I-295 crossing. Project control was referenced to Florida State Plane Coordinate System, East Zone, North American Datum of 1983, Adjustment 2011 (NAD83(2011)), and North American Vertical Datum of 1988 (NAVD88). Deliverables included AutoDesk Civil 3D 2018.The Subsurface utility engineering tasks included utility designation (CI/ASCE 38-02 QL-B) for the entire limits. More than 335,000-LF of underground utilities were mapped to support the design effort. Subsurface utility engineering tasks also included more than 304 utility location (CI/ASCE 38-02 QL-A) of VVH test holes for utility conflicts.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Brent Bass, PE, PSM**			Years of Relevant Experience with this Employer	5
Title	Senior Project Manager			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS/2010/Construction Engineering and Management		
Active Registration Number/State/Expiration Date			PE#84444/FL/2-28/2025 | PSM#LS7512/FL/2-28-2025		
Year Registered	PSM - 2023 PE - 2019	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		SUE & Utility Relocation			

For these contracts, Brent will oversee the identification and relocation of underground utilities to support transportation projects. He employs advanced techniques to map utilities accurately, minimizing conflicts during construction. Brent specializes in laser scanning, mobile LiDAR, static LiDAR, GPS control networks, first-order control networks, right-of-way mapping, and topographic surveys. His responsibilities include contract administration and project coordination, technical oversight, and professional development of staff, budget and schedule coordination, and quality assurance/quality control of survey deliverables.

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).
10/18 - 06/23	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Survey Manager** that was responsible for surveying, scanning (processing and review) and subsurface utility engineering services for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck. Surveys included 3D design survey, locating drainage structures, underground utilities and scan data.
06/16 - 12/21	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Project Surveyor** for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.

Brent Bass resume continued

02/23 - Ongoing	**I-4 at Sand Lake Road Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Orange County, FL** **Project Surveyor** responsible for the design survey requests to support the alternative delivery and the mobile scan (collection, processing and review) and delivery of Mobile Scan Data to support the 3D topographic services for the reconstruction of the existing I-4 at Sand Lake Road Interchange to a diverging diamond interchange. This new interchange provides a direct connection from the westbound I-4 general use lanes to Turkey Lake Road. The project also includes the design of one buffered express lane on westbound I-4 between Sand Lake Road and Central Florida Parkway, existing roadway improvements, three bridge replacements, three new ramp bridges, and one bridge widening. Our Team's innovative alternative technical concept includes shifting the entire I-4 typical section to the west, which improves the horizontal and vertical geometry of the mainline and ramps, constructs the bridges off-line, reduces the bridge deck area by over 18,000 SF, and eliminates all Category 2 Bridges, post-tensioned piers, and shoring towers. This allows the I-4 westbound to Turkey Lake Road to open 24 months earlier than the original project schedule. Additional services include signing and pavement markings, lighting and aesthetic lighting, geotechnical, signals, and intelligent transportation system (ITS) improvements.
09/22 - Ongoing	**I-275 at I-4 Interchange Improvements Design-Build, The Lane Construction Corporation for FDOT District Seven, Hillsborough County, FL** **Survey/LiDAR Manager** responsible for the mobile scan (collection, processing and review) and delivery of Mobile Scan Data to support the alternative delivery for this interchange improvements project, which includes the design and construction of six new bridges, eight bridge widenings/modifications, four existing bridge coatings, and two existing bridge railing retrofits; widening the existing roadway from 2-lanes to 3-lanes in specific segments; improving existing drainage facilities, and providing complex temporary traffic control plans throughout each phase of the project to minimize disruption for all users. The design-build team's innovative alternative technical concept includes an innovative new dual-lane flyover bridge to accommodate the I-275 southbound traffic onto I-4 eastbound without needing a complex widening. This eliminates over 100 detours by performing off-line construction and provides FDOT with the opportunity to add a new I-4 eastbound auxiliary lane to the Selmon Expressway exit just east of the downtown interchange. Other project design elements include permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, and geotechnical.
07/21 - Ongoing	**I-175/SR 594 Concrete Rehabilitation, FDOT District Seven, Pinellas County, FL** **Survey/LiDAR Manager** responsible for mobile scan (collection, processing and review) and overseeing extraction of Mobile Scan data to support this Concrete Rehabilitation Project on I-175 from E. 16th Street South to 4th Street South in the City of St. Petersburg, Florida. I-175 (SR 594) is an Limited Access Interstate Highway. This roadway is an SIS corridor and varies from four-lanes to six-lanes. Overall services being provided include pavement design, slab maintenance scheduling, milling and resurfacing, drainage, signing and pavement markings, miscellaneous structures, lighting, design survey, Terrestrial Mobile LiDAR, and public involvement.
09/11 - 12/22	**JEA CR 210 Longleaf Pine Parkway to Shearwater Road, Mott MacDonald, St. Johns County, FL** **Survey/LiDAR Manager** responsible for UAS scan (estimating, processing and review) and delivery of UAS Scan data to support the subsurface utility engineering and topographic survey services for this project.
07/21 - 01/22	**SR 25/US 27 from North of SR 540 to North of Kokomo Road, FDOT District One, Polk County, FL** **Survey Project Manager** responsible for surveying, scanning (mobile scan, processing and review) and project management for all survey activities to support of the resurfacing of SR 25/US 27 North of SR 540 to North of Kokomo Road. This 5-mile project also consists of shoulder work, drainage updates, and guardrail. Surveys include 3D design survey, locating drainage structures, right-of-way, control survey, and Mobile Scan Data.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Tom Yocom, PSM, PLS**			Years of Relevant Experience with this Employer	5
Title	Senior Project Manager			Years of Relevant Experience with Other(s) Employers	37
Degree(s)/Years/Specialization					
Active Registration Number/State/Expiration Date			PSM#LS5653/FL/2-28-2025 | PLS#L-4943/NC/12-31-2024 |PLS#6303/TX/12-31-2024		
Year Registered	FL - 1996 NC - 2010 TX - 2011	Discipline	Survey		
Contract Role(s)/Brief Description of Responsibilities		SUE QA/QC			

For these contracts, Tom will ensure the accuracy and reliability of subsurface utility data collected for transportation projects. Tom will develop and implement quality control procedures to verify the precision of utility location and mapping. Tom's responsibilities include the coordination and supervision of subsurface utility engineering crews, project planning and management, quality assurance and quality control of subsurface utility engineering deliverables, and marketing and business development. His experience includes a wide variety of survey disciplines for projects such as higher education, municipal, highway transportation, rail, oil/gas, and land development.

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 - 01/20	**U-5957, NC 27 (Freedom Drive) from SR 1644 (Toddville Road) to SR 1600 (Moores Chapel Road), NCDOT Division 10, Charlotte, NC** **Project Manager** providing Quality Level "B" and "C" (per ASCE 38-02) designating and survey location of known subsurface utilities for this 1.7-mile mobility improvement project to accommodate bicycles and pedestrians along the project corridor. Direct-buried communication and television lines were mapped to Quality Level C standards where all other utilities will be mapped to Quality Level B standards. Located and mapped water and gas lateral service lines to the associated meters. Primary power drops and major industrial or commercial power services were included.
05/17 - 09/19	**B-5931, Morris Field Bridge Replacement over Norfolk Southern Railroad, City of Charlotte, Mecklenburg County, NC** **SUE Manager** for this bridge replacement project on Morris Field Drive over Norfolk Southern Railroad tracks. The design will incorporate context-sensitive items including sidewalks and other improvements to the bridge and approaches. ASCE-C-1 38-02 Quality Level B utility designating was performed where six subsurface utility facilities were found including fiber optic communication lines along the active railroad right-of-way requiring coordination with Norfolk Southern for a watchman/lookout during field activities.
03/19 - 05/19	**U-5858, SR 1418 (Lindsay Road) from SR 1406 (Rockfish Road) to US 401, NCDOT Division Eight, Hoke County, NC** **Project Manager** responsible for SUE services for this roadway widening project near Fayetteville, NC. As part of the project the roadway is going to be re-aligned to create a more functional intersection resulting in relocation of several utilities. Our task was to provide CI/ASCE 38-02 Quality Level B designating to assist the design team in quantifying the impacts of existing utilities.
04/19 - 01/20	**U-4900, NC 210 from South of I-295 to South of US-401 Bypass, NCDOT Division Six, Cumberland County, NC** **SUE Project Manager** responsible for providing Quality Level B designating and survey location of known subsurface utilities in the areas outlined in the project limits. Direct-buried communication and television lines were mapped to Quality Level C standards where other utilities including NCDOT facilities were mapped to Quality Level B standards. Located and mapped water and gas lateral service lines to the associated meters. Primary power drops and major industrial or commercial power services were included. In addition, under special project tasks and parameters, a verification process of previously completed Quality Level B linework for TIP U-4900 completed by others in 2007 was performed including review of the project CADD file in comparison to utility owner/operator facilities maps, as-builts and other reference material obtained by DRMP along with a field walk through to search for above ground evidence of additional subsurface utilities not shown in the 2007 subsurface utility engineering file.

Tom Yocom resume continued

05/18 - 11/20	**US 98 (Navy Boulevard) Final Design, FDOT District Three, Santa Rosa County, FL** **SUE Manager** for this FDOT complete-street project along the Navy Boulevard corridor from New Warrington Road to the Bayou Chico Bridge. The area is approximately 1.4 miles in length and contains three signalized intersections and serves as a significant regional arterial connection within the Pensacola community. Navy Boulevard serves as an important regional link between community assets that includes Naval Air Station (NAS) Pensacola and the downtown Pensacola business district. We completed approximately 60 Verification of Vertical and Horizontal (VVH) location test holes on existing utilities and 5 mast arm clearances in support of the design team.
01/20 - 13/21	**SR 390 from SR 77 to SR 75 Final Design, FDOT District Three, Bay County, FL** **SUE Manager** in support of final design for this FDOT widening project on SR 390 (East 14th Street) from SR 77 (Ohio Avenue) to SR 75 (US 231) The purpose of this project is to improve overall traffic operations, regional mobility, social factors, economic factors and environmental impacts to improve roadway capacity and meet future travel demand along SR 390. The proposed improvements will consist of widening SR 390 between SR 77 (Ohio Avenue) and SR 75 from a 2-lane rural collector and arterial undivided roadway, to a 6-lane urban, undivided arterial, including improvements at either end of the project. Through this 4.3-mile project, we completed approximately 95 Verification of Vertical and Horizontal (VVH) location test holes on existing utilities to aid the design team. This project was very challenging as we successfully dealt with high water from recent tropical storm events by selectively scheduling VVH locations.
07/18 - 03/19	**U-5955, NC 16 (Brookshire Boulevard) from I-85 to Idaho Drive, NCDOT Division 10, Mecklenburg County, NC** **Project Manager** responsible for SUE services for this major Superstreet Conversion project from Hoskins Road to Idaho Drive in Charlotte. Our scope was to map subsurface utilities to CI/ASCE 38-02 Quality Level B and C standards through-out the project corridor. Through our processes, we designated and surveyed over 80,000-LF of existing utilities, including several abandoned water mains.
04/19 - 01/20	**R-5850, NC 53 from US 117 to SR 1509 (Stag Park Road), NCDOT Division Three, Pender County, NC** **Project Manager** responsible for SUE services for this roadway widening project in Burgaw, NC. Our scope was to map subsurface utilities to CI/ASCE 38-02 Quality Level B and C standards through-out the project corridor. Through our processes, we coordinated closely with the Town's Director of Public Works to obtain valuable utility records and as-builts of their water and sewer force main lines as part of over 38,000-LF of utilities we designated and surveyed.
12/18 - Ongoing	**R-2828, Complete 540 – Triangle Expressway Extension, Design-Build Team, Wake County, NC** **Project Manager.** The proposed Complete 540 will extend the existing Triangle Expressway approximately 16 miles to Interstate 40 in Wake County. Along with supplemental conventional survey services, our scope was to provide up to 75 CI/ASCE 38-02 Quality Level A Test Holes to verify existing utilities at potential conflicts with proposed design elements such as drainage, roadway and bridges. As part of this effort, we identified a Colonial Pipeline easement containing several gas transmission pipelines.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.				
Name	**Ryan Grab, CST II**		Years of Relevant Experience with this Employer	12
Title	Subsurface Utility Engineering Manager		Years of Relevant Experience with Other(s) Employers	12
Degree(s)/Years/Specialization		N/A		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	Survey	
Contract Role(s)/Brief Description of Responsibilities		SUE Manager		

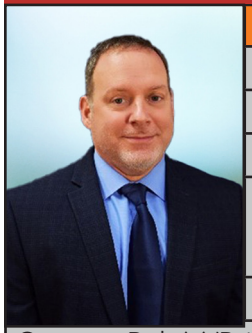
For these contracts, Ryan will oversee the planning, execution, and quality control of SUE activities, ensuring compliance with industry standards and project requirements. Additionally, Ryan will liaise with utility owners, project stakeholders, and regulatory agencies to coordinate utility locates and minimize conflicts during construction. Ryan's responsibilities include the coordination and supervision of subsurface utility engineering and survey crews, project planning, utility coordination, and preparation of deliverables. His technical experience includes subsurface utility designation (CI/ASCE 38-02 QL-B) and location (CI/ASCE 38-02 QL-A) for large right-of-way projects and smaller sites and obtaining survey data for various types of surveys. He has experience working with utility designating equipment such as Mala GPR (HDR Pro, RAMAC), RD1000 GPR, EM Locators, Vivax vLoc, 3M Dynatel, Subsite, Metrotech, as well as various survey hardware/software packages such as TSC, TDS Ranger, TDS Survey Pro on HP 48GX, SURVCE on Carlson 600, Robotics and Allegro with EFB. He has experience with radio and network RTK GPS and static GPS using Trimble, LIECA, and Carlson software packages.

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 - Ongoing	**SR 5 (US 1) from SR 206 to Moultrie Creek, Arcadis for FDOT District Two, St Johns County, FL** **Subsurface Utility Engineering Coordinator** for a 3D topographic design survey and right-of-way determination of a 4.5-mile corridor of SR 5 (US 1) in St Johns County. Services included establishment of primary and secondary project control (horizontal and vertical), staking of 98 mobile LiDAR targets with horizontal and vertical values, 3D mobile LiDAR of roadway and features, establish, stake and reference project baseline, establish and map right-of-way lines throughout the project, 3D topographic survey of mobile LiDAR mapping obscured areas, 3D survey of all drainage structure, and designating and mapping of underground utilities. Survey was performed in support of roadway resurfacing and design improvements.
09/18 - Ongoing	**SR 228 (Normandy Boulevard) from New Word Avenue to Cassat Avenue, Peters and Yaffee for FDOT District Two, Duval County, FL** **Subsurface Utility Engineering Coordinator** for this 10.7-mile Traffic Control/Systems Project. The overall project included the design of a new Gigabit Ethernet Fiber Optic Communications network link along rural and urban sections of SR 228 and providing connections to all signal cabinets as well as SR 23 and I-295. Design for Two multi-post ADMS and two overhead ADMS are also included. Plans include wiring, splicing, cabinet, mounting and electrical analysis/details. Project limits extend from New Word Avenue to Cassat Avenue.
01/19 - 05/20	**SR 9 (I-95) From SR 207 to International Golf Parkway, FDOT District Two, St. Johns County, FL** **Subsurface Utility Engineering Coordinator** to support the defining and calculating the alignment and right-of-way along the project corridor and the State Road Intersections at SR 207 and SR 16 in support of the engineering and design of resurfacing and travel lane improvements.

Ryan Grab resume continued

02/22 - 03/20	**SR 10/US 90/Beaver Street, Resurfacing and Signalization Improvements from Tyler Street to Eaverson Street, FDOT District Two, Duval County, FL** **Subsurface Utility Engineering Coordinator** for this 2-mile signalization improvement project that consisted of the complete signal rebuild of three intersections. The survey and mapping tasks involved horizontal and vertical control surveys, calculation of centerline alignment and right-of-way calculations. Design survey activities were performed to support the engineering design included topographic/Digital Terrain Model surveys and subsurface utility engineering services which involved utility designation, location (VVH's) for utility conflicts and signal structure foundation exploratory test holes. Right-of-way mapping activities consisted right-of-way control survey, right-of-way mapping and parcel sketch and descriptions for corner clips, temporary construction easements and perpetual easements with in the City of Jacksonville right-of-way.
08/17 - Ongoing	**SR 9/I-95 at SR 115 (Martin Luther King Boulevard) Interchange, FDOT District Two, Duval County, FL** **Subsurface Utility Engineering Coordinator** for the survey and mapping effort to raise the bridge elevation over Martin Luther King Boulevard along I-95. The survey effort consisted of Terrestrial Mobile LiDAR data and conventional survey and subsurface utility engineering (SUE) services. The right-of-way mapping effort included control maps, right-of-way mapping, and legal descriptions to support the right-of-way acquisition for this project.
11/13 - 12/13	**SR 100, Rail to Trail from Roberts Lane to St. Johns River Water Management District, Putnam County, FL** **Subsurface Utility Engineering Coordinator** responsible for the daily Subsurface Utility Engineering (SUE) operations. DRMP provided design surveying services on this 6.00 mile Rail-to-Trail project, running parallel to State Road 100, from Roberts Lane easterly to the St Johns Water Management District office. Services included: Horizontal and Vertical Control, including Project Control Sheets, recovery of the corridor alignment and right-of-way, Topographic 3D survey with a full Digital Terrain Model of the project corridor. Subsurface Utility Engineering (SUE) to designate utilities along the project corridor, Channel Sections to support the Bridge Hydraulic Study. Project deliverables included Micro Station design files and a CaiCe Data Base for use by the design engineer and the Florida Department of Transportation District Two Surveying and Mapping Department.
08/13 - 02/14	**SR 18 Hampton Rail Trail, Pond and Company for FDOT District Two, Bradford County, FL** **Subsurface Utility Engineering Coordinator** responsible for the daily Subsurface Utility Engineering (SUE) operations. DRMP prepared a boundary survey and a topographic survey of a 0.23 acre parcel of land in Hampton, Florida at the intersection of County Road 18 with the Palatka to Lake Butler Trail. The topographic survey included Subsurface Utility Engineering (SUE) efforts to locate the underground utilities available to service the parcel. We established the alignments and right-of-way lines for CR 18 and the Rail Trail both adjacent to the Trailhead Parcel. The design file and boundary survey were prepared using MicroStation for use by the design engineer to develop a trailhead facility with parking, restrooms and a trail connecting to the main rail trial system.
01/19 - 04/23	**SR 9A/I-295 Express Lanes from J Turner Butler Boulevard to Dames Point Bridge, FDOT District Two, Duval County, FL** **Subsurface Utility Engineering Coordinator** for this 5-mile limited access right-of-way widening project. Subsurface utility engineering tasks included utility designation (CI/ASCE 38-02 QL-B) for the entire limits. More than 204,000 linear feet of underground utilities were mapped to support the design effort. Subsurface utility engineering tasks also included utility location (CI/ASCE 38-02 QL-A) of exploratory/clearance holes for signal mast arm and sign foundation design and (VVH) test hole for utility conflicts. To support the pavement design, subsurface utility engineering personnel provided more than 232 locations of the existing bridge foundation footers to ensure proper clearances were maintained during design.

16. STAFF EXPERIENCE:



Firm Employed By: Horrocks					
Name	**Peter Borsack, PE, PMP**			Years of Relevant Experience with this Employer	<1
Title	Utility Lead			Years of Relevant Experience with Other(s) Employers	24
Degree(s)/Years/Specialization			MS/2005/Civil Engineering | BS/1998/Civil Engineering & History		
Active Registration Number/State/Expiration Date			PE#0033432/LA/3-31-2024 | PE#91700/TX/3-31-2024 | PE#18430/NM/12-31-2024 | PE#23492/OK/9-30-2025 | PE#9388828-2202/3-31-2025 | PE#60377/AZ/9-30-2024 | PE#0051374/C)/10-31-2025 | PE#18505/AR/12-31-2027		
Year Registered	2003	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		SUE Services Manager - Large Scale Projects			

For these contracts, Peter will oversee the implementation of SUE services for major transportation projects. He will lead a specialized team responsible for accurately mapping underground utilities to support project planning and construction. By coordinating with project managers, utility owners, and regulatory agencies, Peter will ensure that SUE activities are conducted efficiently and in compliance with industry standards. Peter, with 24 years of civil engineering experience, specializes in utility design, project management, and SUE. His expertise includes performing SUE and conflict analysis for various infrastructure projects, such as water, sewer, gas, electric, and telecommunications facilities. Peter has extensive experience working on TxDOT SUE projects, providing quality levels A to D in multiple Texas cities. He has also collaborated with AT&T Texas and served as a SUE and UC lead for various utilities and municipalities across different states. Peter's work spans several states, including Texas, Utah, and Colorado, where he has designed utility relocations and early phase utility designs.

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).
01/21 - 01/24	*** IH 35; IH 35 Split to FM 3002, Denton, TX** **Subsurface Utility Engineer.** Peter compiled 4 separate SUE deliverables covering 17 miles of IH 35 ROW, including one from LTRA, into one common base file and provided a utility coordination conflict ID file that corresponds to the utility conflict IDs in the UCM including the IH 35W Split, Loop 288, US 77 and FM 455. They developed a Work Plan and Relocation Tracking Sheet relative to the UCM for each utility company. There were over 30,000 LF of Overhead electrical lines spanned more than 500 poles within the project limits. Ownership of 4 different OH electrical utility companies as well as joint use conduit utilized by 6 telecom companies, 8 different gas systems, 4 water line owners, 2 major pipelines and 3 telecom owners that relocated alone. KMZ files were created for all SUE quality levels and all PS&E design disciplines in the same format. All design related developments and each utility ID number based on 7 different CSJ and 6 ROW CSJ boundaries.
04/20 - 09/20	*** IH 10 Corridor Study, El Paso, TX** **Subsurface Utility Engineer.** Peter's team performed SUE Level D record research and Level C utility positional analysis for the 7.5-Mile Corridor that incorporates approximately 440,000 LF of LVL C and D utilities within the study area, identify survey features with 19 utility owners including TxDOT ITS infrastructure in a multi-lane roadway in downtown El Paso that extended into some historically significant properties next to the Interstate, including a Rail Yard, University of Texas El Paso, and various business and residences along Missouri Avenue. Critical utilities including utility bridges, overhead transmission lines, aged water and wastewater crossings and longitudinal utilities that would require exceptions were noted in our schematic utility study.

Peter Borsack resume continued

01/10 - 03/13	*** Lyndon B. Johnson Managed Lanes Project, Dallas, TX** **Subsurface Utility Engineer.** Peter led conflict matrix, concept design plans, easement acquisition and utility relocation design and coordination services for the TxDOT LBJ project which was a 13.3-miles Interstate Highway I-635 (LBJ) widening project from just west of I-35E (near Luna Road) to just east of US 75 (Coit Ave.) and south on I-35E from I-635 to Loop 12. The project was completed in 2015, two years after all utility relocation as-builts were submitted. It was the first comprehensive development agreement (CDA) project signed in Dallas County and included the adoption of 58 separate utility agreements that were synchronized with the construction phase schedule. Peter was the Project Manager for the SUE, Utility Coordination, Utility Engineering Design and Utility Adjustment Monitoring and Verification services. He directed the water, sewer, electric and telecommunications design for Ferrovial (Trinity Infrastructure). This included relocation plans for approximately 75,000 LF of telecommunications, 10,000 LF of electric and 50,000 LF of water and sewer lines that conflicted with the proposed improvements. Peter wrote and submitted exception letters that were approved by TxDOT for AT&T, Atmos and DWU relocations. Peter led subcontracts for preparation of Traffic Control Plans for proposed relocation and installation of all public and private utilities along the proposed IH 635 (LBJ Freeway) managed lanes project. This project includes reconstruction of 13.3 miles of IH 635 (LBJ) from just west of IH 35E (near Luna Road) to just east of US 75 (near Greenville Ave.). The project also included two miles of partial reconstruction of IH 35 frontage roads from Royal Lane north to Valley View Lane including the IH 35/LBJ and LBJ/ Dallas Parkway interchanges. Additionally, TCP were prepared for utility installation for the approaches of numerous major and minor intersecting city streets.
03/22 - 07/22	*** SH 153; SH 70 to North of US 277, Abilene, TX** **Utility Engineer Lead.** Peter was the SUE and UC PE for a 13-mile, two-phased rural corridor containing approximately 200,000 LF of OH electric, UG fiber and copper, and a gas line in a parallel easement with no ROW acquisition. In this rural setting, Peter added STA to the Conflict ID's and identified 30 QL A test holes and 25,000 LF of QL B at potential conflict locations with proposed grading and storm sewer. With surveyed fiber offsets he was able to work with PS&E on ditch flowline offsets to avoid existing fiber and windmill UG electric and fiber crossings. Peter successfully helped clear 9 Taylor Electric 3-phase power poles into the 0-3' of ROW and lowered Taylor Telecom fiber and copper on each side of the ROW below 15 cross culvert mostly with grade cuts at existing TxDOT drainage easements.
01/21 - 02/24	*** Texas Department of Transportation, Various Projects, TX** **Utility Engineer.** Peter assembled a work plan and utility conflict matrix for 7 CSJ projects, 3 of which in a tight urban ROW part of which covered a total of 16 miles and 25 utility owners. Peter developed a proposed utility relocation file assigned under STANTEC to provide UAR compliant longitudinal alignments within the outer ROW borders and proposed 90-degree crossings with respect to the ROW for underground and overhead distribution and transmission utilities. He successfully assembled documentation for 6 approved Exceptions to Policy for overhead electric transmission and underground wastewater and gas . He constantly emphasizes following Dallas District design standards when permits and agreement plans were being provided by either the utility designer or their consultant. He worked with PS&E to mitigate storm and pavement above 3 major Natural Gas pipelines to protect them in place. He also provided overhead alignments that eliminated impact to bridge construction, ensuring vertical clearances above the highest pavement section were met. He led his inspectors to field document all steel and iron materials noted in the agreements as Buy America. Mr. Borsack determined which existing facilities taken out of service were required to be removed from the ROW to follow a district directive of clearing ROW in order to prepare for PS&E construction. Utility relocations are estimated to total approximately $160 million for all 7 CSJs and he had provided utility ASED estimate by utility owner.

*** Prior Project Experience**

STAFF EXPERIENCE:

Group 10 - Other Services (ITS/Lighting) Team

16. STAFF EXPERIENCE:

Firm Employed By: Horrocks			
Name	**Ashley Dowell, PE**	Years of Relevant Experience with this Employer	11
Title	ITS Design Group Manager	Years of Relevant Experience with Other(s) Employers	11
Degree(s)/Years/Specialization	MS/2013/Civil Engineering | BS/2012/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#P-23399/ID/7-31-2026 | PE#98885/FL/2-28-2025 | PE#9867472-2202/UT/3-31-2025		
Year Registered	2016	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Discipline Lead - ITS		

For these contracts, Ashley will oversee the planning, design, and implementation of ITS solutions for transportation projects. Ashley will lead a team of specialists in developing innovative technologies to improve traffic management, safety, and efficiency. Ashley, a professional engineer and certified road safety professional in Utah, has 11 years of experience in traffic engineering, roadway safety evaluations, ITS, traffic signal, and lighting designs. She specializes in all aspects of design, including warranting analyses, photometric calculations, circuit design, and material reviews during construction. As the signals and lighting design lead at Horrocks, she manages the design of various traffic signals and lighting systems, providing oversight design support for UDOT. Ashley collaborates with stakeholders to resolve conflicts and ensure project success through effective communication.

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	**5600 South PDB Phase II, Roy, UT** **Traffic Engineer.** Ashley is assisting with the design of all traffic signals and street lighting for this project located on I-15 and SR-97 (5600 South) within Roy and Riverdale City. This is an interchange reconstruction and SR-97 widening project to reduce congestion and improve safety from I-15 west to SR-108. The major items of work include a new interchange with multiple structures, road widening (including widening an existing structure over railroad), intersection improvements, trail systems, utilities, drainage, survey, ROW, traffic modeling, ITS, lighting, signals, signing, environmental reevaluation, and Hill Air Force Base coordination.
03/21 - Ongoing	**I-15; Shepard Lane Interchange, Farmington, UT** **Traffic Engineer.** Ashley is assisting with the design of all traffic signals and street lighting for this project which involves adding a new IC at Shepard Lane, including bridges over I-15 and UPRR/UTA and a series of dedicated pedestrian bridges and a trail at Park Lane for access from the UTA park and ride to the east side of US-89. Horrocks' role includes project management; IACR development; structural, oversight of geotechnical, roadway, drainage, signals, lighting, signing, and utility design; and railroad coordination. Horrocks is also providing supplemental mapping and topography, ROW plans, and SUE.
10/21 - Ongoing	**I-15 Spanish Fork/Springville Interchange Design, Utah County, UT** **Traffic Engineer.** Ashley is assisting with the design of all traffic signals and street lighting for this project that has created a new I-15 interchange at 4800 S./1600 S. in Spanish Fork/Springville, roadway rehabilitation and widening from Main Street to SR-51, and a new structure over the Union Pacific Railroad (UPRR).
01/20 - 11/22 SECTION 17 PROJECT	**Reno Spaghetti Bowl Xpress Design-Build, Reno, NV** **Traffic Engineer.** Ashley assisted with the design of all traffic signals and street lighting. Horrocks provided the design for widening, realignment, and reconstruction of the I-580 southbound lanes, including the southbound bridges, and reconstruction of the interior northbound lanes.
08/18 - 12/19 SECTION 17 PROJECT	**US-89, Farmington to I-84 Progressive Design-Build, Farmington, UT** **Traffic Engineer.** Ashley was the design lead for all street lighting, signing, and traffic signals responsible for preparing the designs, plans, specifications, and ensuring the designs complied with UDOT and MUTCD standards. She also conducted corridor-wide safety analyses to recommend safety improvements for inclusion in the project.

Ashley Dowell resume continued

12/13 - 09/18	**SR-18; Interchange at Bluff & Sunset Street, St. George, UT** **Traffic Engineer.** Ashley designed the street lighting and traffic signals. This included all calculations, plans and details for street lighting, pedestrian tunnel lighting, and traffic signals in accordance with MUTCD and state regulations. She also completed a safety analysis for the corridor based on historical crash data.
11/17 - 03/21	**I-15 Northbound; Bangerter Highway to I-215, Salt Lake County, UT** **Traffic Engineer.** Ashley provided design oversight support for traffic signal, street lighting, and ITS designs. She was responsible for developing the contract requirements and reviewing plans and specifications, and ensuring the design was in compliance with the contract.
05/22 - 04/24	**I-90; Spokane Street to US-95, Coeur d'Alene ID** **Illumination Design Lead.** Ashley was the Illumination Design Lead for this project providing IC ramp lighting and mainline continuous lighting on I-90. Ashley also provided the safety analysis for the IC modification report for this project.
11/15 - 01/17	**USA Parkway Design-Build, Reno, NV** **Traffic Engineer.** Ashley was the lead designer for the street lighting, ITS, signing, and traffic control plans. This included all calculations and designs for roundabout lighting, CCTV sites, AVCS sensors, and the sign layouts in accordance with MUTCD and state regulations. She also assisted with QC for the traffic control plans and details.
07/17 - 05/18	**Garnet Interchange Design-Build, North Las Vegas, NV** **Traffic Engineer.** Ashley assisted with the design of traffic signals and street lighting for this project that redesigned and reconstructed the I-15 Garnet IC and provided improvements to the US-93 corridor. Horrocks' design utilized a modified diverging diamond IC to improve traffic flow, reduce travel times, and increase safety for motorists.
10/14 - 04/15	**I-15 Exit 118 Design-Build Program Management, Mesquite, NV** **Traffic Engineer.** Ashley assisted with the design of all traffic signals and street lighting for this project that included an arch bridge over I-15; four ramps; 1,500 feet of Lower Flat Top Drive; traffic modeling and analysis; storm drain design; culvert crossings jacked and bored beneath I-15; extensive retaining walls; and environmental support. While functioning as the program manager, Horrocks developed the preliminary design of the interchange in accordance with NDOT, AASHTO, RTC and Mesquite standards.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**John Florez, PE**			Years of Relevant Experience with this Employer	7
Title	Traffic Engineer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2014/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#91167/FL/02-25-2025		
Year Registered	2021	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		ITS Designer			

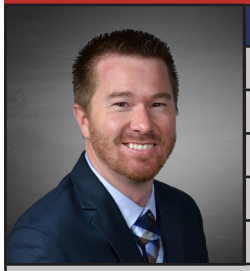
For these contracts, John will be responsible for directing the planning, design, and deployment of ITS solutions for transportation projects. Leading a team of specialists, he will oversee the development and implementation of innovative technologies aimed at enhancing traffic management, safety, and efficiency.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Lighting Engineer** responsible for plans production and lighting analysis for the design and construction of 2.63 miles of limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Traffic Engineer** responsible for lighting design and lighting plans production for the design of approximately nine miles of roadway and the interchanges along US 98 and Cardinal Road. The overall project was a new limited access all-electronic toll facility to extend the Suncoast Parkway. The complete design included plans for roadway, drainage, bridge, intelligent transportation systems, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. Overall, ITS Concept of Operations, design and plans included new gigabit Ethernet communications with supporting field installations of dynamic message signs (mainline and arterial), CCTV Camera sites, vehicle detection systems, travel time systems (RFID and bluetooth) and highway advisory radio systems. Work included designing electrical services with automatic transfer switches and permanent generator backup for all field devices. Wiring and fiber splicing diagrams, equipment details and specifications were developed as part of this project.

John Florez resume continued

06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Traffic Engineer** responsible for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only.
04/18 - 02/20	**SR 528/SR 436 Interchange Improvements and SR 528 Widening from SR 436 to Goldenrod Road (Contract#528-143), Central Florida Expressway Authority, Orange County, FL** **Lighting Engineer** responsible for plans production and lighting analysis for the reconstruction of the SR 528/SR 436 interchange and widening of SR 528 from 4-lanes to 6-lanes with an auxiliary lane eastbound to Goldenrod Road and westbound to Conway Road. This project includes construction of seven new bridges using a mix of steel box girders and concrete Florida-U Beams as well as the replacement of one box culvert. This project also involved extensive coordination with the Greater Orlando Aviation Authority and the Federal Aviation Administration as this interchange serves as the north entrance and exit to the Orlando International Airport. Other project design elements included complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems and geotechnical analysis.
03/20 - Ongoing	**SR 8 over SR 10 (US 90A) Nine Mile Road (Bridge#480061) FDOT District Three, Escambia County, FL** **Lighting and ITS Engineer** responsible for design and plans production for the replacement of the twin bridges at SR 8 (I-10) over SR 10 (Nine Mile Road). The bridges were programmed for replacement due to structural deficiency and insufficient vertical clearance. The recommended replacement bridges consist of two-span at 170'-6" each with an overall bridge length of 341'-0" and configured to accommodate the interim SR 10 suburban typical section and the future diversion diamond interchange. The bridge construction will proceed with a three-phase approach, with the middle portion being removed and replaced. Westbound traffic will be placed on the newly constructed middle portion while the westbound bridge is removed and replaced. The last phase is a mirror of the second phase. The phased construction is facilitated by temporary critical walls strategically placed to avoid utilities.
09/01 - 07/04	**SR 408 Widening from SR 417 to Alafaya Trail (Contract 408-128), Central Florida Expressway Authority, Orange County, FL** **Traffic Engineer** responsible for the development of plans and design of lighting system of a limited access toll facility from 4-lanes to 6-lanes, continuing the overall widening of SR 408 from downtown Orlando to the eastern roadway terminus just east of Alafaya Trail, includes interchange modification with the reconstruction of two ramps at Rouse Road, existing mainline toll plaza modifications, one new ramp toll plaza, three bridge widenings and one bridge replacement over Alafaya Trail. The widening alleviates congestion at the current point of lane reduction just east of the SR 417 interchange, adds capacity with additional travel lanes and auxiliary lanes and improves safety with features such as increased clear zones, wrong way detection and guardrail height. Design elements include highway design, drainage, structures, intersections, interchanges, toll plazas, temporary traffic control plans, lighting, intelligent transportation systems, signalization, signing and pavement marking and utility coordination.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Justin Hayes, EI**			Years of Relevant Experience with this Employer	4
Title	Area Traffic Group Leader			Years of Relevant Experience with Other(s) Employers	14
Degree(s)/Years/Specialization			BS/2012/Electrical Engineering		
Active Registration Number/State/Expiration Date			EI#1100022172/FL		
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			ITS		

For these contracts, Justin will focus on implementing advanced technologies to improve traffic management and enhance transportation efficiency. Justin will develop and deploy systems for traffic monitoring, signal control, and traveler information to optimize the flow of vehicles and reduce congestion. Justin oversees design and plans production in traffic engineering, focusing on intelligent transportation systems (ITS), signing, and roadway lighting. His responsibilities extend to shop drawing review, utility coordination, cost estimates, traffic studies, and lighting analysis. With expertise in wiring circuits, electromechanical repairs, and electrical technologies, including analog and digital circuits, Justin's experience includes circuit design and software development for locomotive simulators for clients such as Amtrak, Siemens, Union Pacific, and BNSF.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Traffic Engineer** responsible for the electrical design of the decorative lighting for both alternating and direct current system for the design of a limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The design utilized specialized wall washer fixtures, pole top fixtures, and LED rope lighting. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
06/21 - 08/21	**Audible Pedestrian Detectors, FDOT District Two, Nassau, Clay, Duval, and Clay Counties, FL** **Electrical Engineer** responsible for installing and setting up an audible pedestrian detector at South 8th Street and Beech Street in Nassau County. Justin also repaired an audible pedestrian detector at the intersection of Martin Luther King Jr. Parkway, and Main Street. Reviewed all remaining audible pedestrian detectors in the remaining counties for proper operation. Determined that signals that rested in crosswalk would unnecessarily cause visually impaired individuals to wait for an entire cycle.
03/20 - Ongoing	**SR 8 over SR 10 (US 90A) Nine Mile Road (Bridge#480061) FDOT District Three, Escambia County, FL** **Electrical Engineer** responsible for developing the electrical design for the ITS system and lighting system for the replacement of the twin bridges at SR 8 (I-10) over SR 10 (Nine Mile Road). The bridges were programmed for replacement due to structural deficiency and insufficient vertical clearance. The recommended replacement bridges consist of two-span at 170'-6" each with an overall bridge length of 341'-0" and configured to accommodate the interim SR 10 suburban typical section and the future diversion diamond interchange. The bridge construction will proceed with a three-phase approach, with the middle portion being removed and replaced. Westbound traffic will be placed on the newly constructed middle portion while the westbound bridge is removed and replaced. The last phase is a mirror of the second phase. The phased construction is facilitated by temporary critical walls strategically placed to avoid utilities. The design is currently ongoing and has required extensive coordination with two Design-Build projects on an ongoing PD&E project.

Justin Hayes resume continued

08/20 - Ongoing	**SR 408/Tampa Avenue Interchange (Contract#408-315), TLP Engineering for Central Florida Expressway Authority, Orange County, FL** **Electrical Engineer** responsible for developing the electrical design for the ITS system and lighting system for the SR 408/Tampa Avenue interchange modification and widening of eastbound SR 408 from John Young Parkway to Orange Blossom Trail to 4-lanes. DRMP was responsible for the design of a new westbound ramp bridge over Rio Grande Avenue using Florida-U Beams, the widening of eastbound SR 408 over Rio Grande Avenue using Florida-I Beams, and the associated walls. The intelligent transportation system (ITS) design and plans consisted of a new gigabit fiber network with supporting ITS devices. All Electronic Toll ramp toll site design was completed along SR 408 for two interchange ramps (westbound off-ramp to Tampa Avenue and eastbound on-ramp from Tampa Avenue. Surveying services included design survey, right-of-way mapping and subsurface utility engineering. The design survey was performed using a combination of Mobile LiDAR, GPS, and conventional survey methods.
04/22 - 09/22	**Cabinet Riser Base Design, FDOT District Two, St. Johns County, FL** **Project Manager** responsible for aiding in designing the cabinet riser base, testing, and installation. The Historical Districts in St. Johns County experienced significant flooding due to Hurricanes Matthew and Irma. The project included a riser base that can be installed under the traffic signal cabinets to raise the cabinets high up off the ground to avoid future flooding impacts. The design was tested to withstand forces exerted by a Category 4 hurricane. Once the initial design was complete for Type 6 cabinets, other designs were created for different size cabinets.
09/21 - Ongoing	**System-wide Guide Sign (Contract#599-646) WBQ Design and Engineering, Inc. for Central Florida Expressway Authority, Orange County, FL** **Electrical Engineer** responsible for developing the electrical design for the ITS system and lighting system for the CFX System-wide guide sign and lighting replacement of existing conventional, underdeck, and guide sign lighting systems to LED at various locations along SR 417, SR 429, SR 451, and SR 528. Project limits include 11 miles of mainline, three intersections, nine bridges, and 126 guide signs, totaling approximately 20 miles. Design elements include permitting, signing and pavement markings, lighting, and intelligent transportation systems. Other project design elements included survey, geotechnical, electrical, and structural design and analysis for proposed and existing overhead sign structures.
04/22 - Ongoing	**Fiber Interconnect along SR A1A, SR13 and SR 312, Atkins for FDOT District Two, St. Johns and Duval Counties, FL** **Traffic Engineer** responsible for designing fiber optic system to repair and complete FDOT's backbone fiber system in District Two to support this task that consists of the development of a set of fiber interconnect plans for three separate corridors along SR A1A, SR13 and SR 312. DRMP provided ITS Analysis, fiber interconnect design and development of the existing ATMS system. The first corridor involved installing 1700 feet of underground conduit and fiber cable along SR A1A from Ponte Vedra Lakes Boulevard to Marsh Landing Parkway in St. Johns County and Duval County. The second corridor involved installing 2400 feet of bridge-mounted conduit and fiber cable across the Julington Creek Bridge on SR 13 in St. Johns County. The third corridor involved replacing 200 feet of damaged conduit and replacing 2700 feet of existing fiber cable along SR 312 in St. Johns County.
05/22 - Ongoing	**SR 313 (SR 312 Extension) from SR 312/SR 207 Intersection to Holmes Boulevard, FDOT District Two, St. Johns County, FL** **Electrical Engineer** for a new alignment project from just south of SR 207 to Holmes Boulevard. The project includes design of a 2-lane rural typical design, stormwater treatment facilities, permitting, widening, milling and resurfacing, maintenance of traffic, utility coordination, signing and pavement marking, signalization, lighting, geotechnical services and survey.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Nigel Atkinson**			Years of Relevant Experience with this Employer	1
Title	Traffic Engineer			Years of Relevant Experience with Other(s) Employers	5
Degree(s)/Years/Specialization			BS/2018/Electrical Engineering | MS/Exp. 2024/Business Administration		
Active Registration Number/State/Expiration Date			N/A		
Year Registered	N/A	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Electrical Vehicle Charging			

For these contracts, Nigel will focus on implementing infrastructure to support the growing adoption of electric vehicles. Nigel will plan, design, and deploy charging stations along transportation routes and in public spaces to provide convenient access for EV owners. Nigel's responsibilities include assisting with technical troubleshooting and Traffic System Management and Operations (TSM&O) project efforts. He also evaluates intelligent transportation systems (ITS), connected automated vehicles (CAV), and smart city plans. Most of his experience includes autonomous vehicle research and development as well as emerging technology.

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).
01/21 - Ongoing	**I-75 (SR 93) from Collier County Line to Gator Crossing Canal Bridge, FDOT District One, Lee County, FL** **ITS Engineer** for the milling and resurfacing of this 13.8-mile, 6-lane facility extending from Collier County Line to Gator Crossing Canal Bridge on I-75 (SR 93). The work includes milling and resurfacing the emergency median crossovers, existing frontage roads, ramps, shoulders, northbound and southbound lanes of I-75. It also includes bringing the existing Traffic Monitoring Systems into compliance as well as guardrail relocation/replacement and shoulder gutter replacement. Overall project includes bridge inspection, load rating, traffic related structures design, 3D Laser scanning, subsurface utility engineering, topographic, wetland delineation, resurfacing, restoration and rehabilitation, ATMS, intelligent transportation systems, lighting, maintenance of traffic, pavement design, signing and pavement marking, public involvement, utility coordination and a 3D model completed in OpenRoads Designer (ORD).
01/21 - Ongoing	**I-75 (SR 93) from Toll Booth to Collier Boulevard, FDOT District One, Collier County, FL** **ITS Engineer** for the milling and resurfacing of this 1.6-mile, 4-lane facility, extending from Toll Booth to Collier Boulevard on I-75 (SR 93). The work includes milling and resurfacing the northbound and southbound lanes and shoulders of I-75 and widening the inside median shoulders. Overall project includes bridge inspection, load rating, traffic related structures design, 3D Laser scanning, subsurface utility engineering, topographic, wetland delineation, resurfacing, restoration and rehabilitation, ATMS, intelligent transportation systems, maintenance of traffic, pavement design, signing and pavement marking, public involvement, utility coordination and a 3D model completed in OpenRoads Designer (ORD).
08/20 - Ongoing	**SR 408/Tampa Avenue Interchange (Contract#408-315), TLP Engineering for Central Florida Expressway Authority, Orange County, FL** **ITS Engineer** for the SR 408/Tampa Avenue interchange modification and widening of eastbound SR 408 from John Young Parkway to Orange Blossom Trail to 4-lanes. DRMP was responsible for the design of a new westbound ramp bridge over Rio Grande Avenue using Florida-U Beams, the widening of eastbound SR 408 over Rio Grande Avenue using Florida-I Beams, and the associated walls. The intelligent transportation system (ITS) design and plans consisted of a new gigabit fiber network with supporting ITS devices. All Electronic Toll ramp toll site design was completed along SR 408 for two interchange ramps (westbound off-ramp to Tampa Avenue and eastbound on-ramp from Tampa Avenue. Surveying services included design survey, right-of-way mapping and subsurface utility engineering. The design survey was performed using a combination of Mobile LiDAR, GPS, and conventional survey methods.

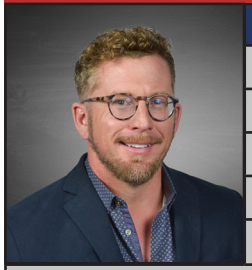
16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Michael Travis, PE**			Years of Relevant Experience with this Employer	3
Title	Senior Electrical Engineer			Years of Relevant Experience with Other(s) Employers	27
Degree(s)/Years/Specialization			BS/1996/Electrical Engineering		
Active Registration Number/State/Expiration Date			PE#29940/LA/3-31-2026		
Year Registered	2001	Discipline	Electrical Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway & Aesthetic Lighting			

For this contract, Michael will focus on roadway and aesthetic lighting design. He brings extensive experience in designing and overseeing the construction and operation of electrical systems for both private and public facilities. His expertise includes electrical lighting systems, emergency generator systems, security, life safety, and energy management systems. Michael has worked on projects for commercial buildings, correctional facilities, military facilities, parks, schools, and universities. He has provided comprehensive design of electrical power and control systems, including life safety, instrumentation, networking communication, and video surveillance. His designs incorporate segregated redundant networks using ring and star topologies for complex security access and control monitoring systems.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/15 – 09/16	**Downtown Greenway, East Baton Rouge Parish, LA** Michael completed the design of electrical lighting and power systems for a greenway to accommodate bicyclists and pedestrians in existing streets through the use of planted areas with feature lighting. Electrical design consisted of pathway lighting fixtures flush with the surrounding ground to illuminate the pathway along with accent lighting for existing monumental trees. Project provided LED source lighting fixtures for energy efficiency and low maintenance. Lighting design provided hinged base standards for ease of maintenance and provided local 120volt ground fault protected receptacles for use to connect decorative lighting. Design provided photocell-controlled lighting contractors to operate all the outdoor lighting.
07/08 – 02/09	**Baton Rouge Metropolitan Airport Taxiway L Extension, East Baton Rouge Parish, LA** Michael was responsible for the design that provided the replacement of excessive height roadway lighting fixtures on Interstate I-110 to a lower height compatible with the extension of Taxiway 'L' at the airport. Design required coordination with the requirements of the various Glide Slope Angles expected for the adjacent runway extension.
06/11 – 02/12	**Louisiana State University Exterior Retrofit Lighting** Michael was the Electrical Engineer responsible for the retrofitting of approximately 2,000 existing exterior building fixtures including road lighting with light sources to achieve a 50% reduction in operation and maintenance and to aide in personnel security at the main campus. Roadway lighting retrofit was for all of Nicolson Extension and from gate to gate on Highland Road.
10/10 – 06/11	**Camp Minden Phase I LA ARNG Regional Training Institute, Minden, LA** Michael responsible for the design of primary electrical distribution system including the Central Plant electrical design, emergency generator system/distribution. Fiber backbone underground communication system / distribution. Roadway and vehicle parking lighting for the Training Site.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Jim Highland, PE**			Years of Relevant Experience with this Employer	20
Title	Traffic Division Leader			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2002/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#68240/FL/02-28-2025		
Year Registered	2002	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Roadway Lighting/Traffic Safety/Municipality Contract Agreements		

For these contracts, Jim will design and implement efficient roadway lighting systems to enhance visibility and safety for motorists and pedestrians. He will assess lighting requirements, select appropriate fixtures, and develop plans that comply with regulatory standards and energy efficiency guidelines. By optimizing illumination, Jim will improve nighttime driving conditions and overall traffic safety. Jim has managed various contracts for municipalities and the FDOT throughout his 20-year career. His experience in traffic engineering design has included technical engineering analysis, safety design and studies, design of minor intersection reconstruction, signalization plans, lighting plans, and intelligent transportation systems. He has experience performing traffic engineering studies, including signal warrants, midblock pedestrian crossing warrants, queue analysis, and analyzing traffic operations for intersections and corridors.

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).
10/18 - 06/23 SECTION 17 PROJECT	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Traffic Engineer of Record** for the design and construction of 2.63 miles of limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
06/07 - 12/17 SECTION 17 PROJECT	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Lighting Engineer of Record and ITS QA/QC.** Jim served as Lighting Engineer of Record and ITS QA/QC for plans at the SR 589 and US 98 Interchange in support of the design of approximately nine miles of roadway. The overall project was a new limited access highway to extend the Suncoast Parkway. The complete design included plans for roadway, drainage, bridge, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. Overall, ITS Concept of Operations, design and plans included new gigabit Ethernet communications with supporting field installations of dynamic message signs (mainline and arterial), CCTV Camera sites, vehicle detection systems, travel time systems (RFID and bluetooth) and highway advisory radio systems. Work included designing electrical services with automatic transfer switches and permanent generator backup for all field devices. Wiring and fiber splicing diagrams, equipment details and specifications were developed as part of this project.

Jim Highland resume continued

06/16 - 12/21 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Lighting Engineer of Record and ITS Quality Reviewer.** Jim was responsible for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
04/18 - 02/20	**SR 528/SR 436 Interchange Improvements and SR 528 Widening from SR 436 to Goldenrod Road (Contract#528-143), Central Florida Expressway Authority, Orange County, FL** **Lighting Engineer of Record** for the reconstruction of the SR 528/SR 436 interchange and widening of SR 528 from 4-lanes to 6-lanes with an auxiliary lane eastbound to Goldenrod Road and westbound to Conway Road. This project includes construction of seven new bridges using a mix of steel box girders and concrete Florida-U Beams as well as the replacement of one box culvert. This project also involved extensive coordination with the Greater Orlando Aviation Authority and the Federal Aviation Administration as this interchange serves as the north entrance and exit to the Orlando International Airport. Other project design elements included complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems and geotechnical analysis.
01/18 - 01/19	**Ramp K Improvements (SR 528 Westbound Exit Ramp to Universal Boulevard/Orangewood Boulevard) (MP 1.9), Florida's Turnpike Enterprise, Orange County, FL** **Lighting Engineer of Record.** Jim was responsible for the delivery of this $648,000 project for the addition of a second right-turn lane on Ramp K (Westbound SR 528 exit ramp) at the Universal Boulevard Interchange. The addition of the right-turn lane increased the capacity of the ramp and provides access from SR 528 (Beachline Expressway) to Universal Boulevard and the International Drive corridor. The addition of the right-turn lane included utility coordination and design, preparation of construction plans for roadway, drainage, signing and pavement markings, lighting, signalization, and structures.
05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), Central Florida Expressway Authority, Osceola County, FL** **Lighting Engineer of Record** for this $92.6 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.

16. STAFF EXPERIENCE:

Firm Employed By: DRMP, Inc.					
Name	**Bharathi Chigurupati, PE, RSP1**			Years of Relevant Experience with this Employer	5
Title	Area Traffic Group Leader			Years of Relevant Experience with Other(s) Employers	12
Degree(s)/Years/Specialization			BS/2003/Civil Engineering | MS/2005/Transportation Engineering		
Active Registration Number/State/Expiration Date			PE#84860/FL/02-28-2025		
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Lighting - Traffic Safety			

For these contracts, Bharathi will design and implement effective lighting systems for roadways. She will assess lighting needs, select suitable fixtures, and develop plans that comply with regulations and energy efficiency standards. Bharathi will aim to enhance visibility and safety for drivers and pedestrians. Bharathi's responsibilities include signal design, lighting design, signing and pavement marking design, and minor traffic studies. She is also responsible for project management, scheduling, estimation of quantities, developing scope, and man-hours.

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).
07/18 - 12/21	**5th Street over Yacht Club Cut Bridge Replacement, City of New Smyrna Beach, Volusia County, FL** **Traffic Quality Assurance/Quality Control Engineer** responsible for the signing and pavement marking plans for this bridge replacement project. The facility is a 2-lane roadway providing access from the mainland to an sland community and marina. The bridge typical section consists of two 9-foot lanes, with 2.5-foot shoulders and a 5-foot sidewalk with traffic railings. The bridge superstructure is comprised of a 3-span Florida Slab Beam (FSB) superstructure using stainless steel reinforcing and consisting of 54-foot spans. The roadway and bridge will be reconstructed on the existing alignment. A temporary ACROW bridge will provide access during the bridge replacement. Scour and tidal influences will play a critical role in design of the structure. The project included two public meetings; one in person and one virtual. A Type I Categorical Exclusion was approved for the project. Mitigation planning included establishing an off-site preservation area and relocating oysters within the project footprint. US Coast Guard and National Marine Fisheries Services coordination and environmental permitting with the St. Johns River Water Management District (SJRWMD) and USACE was completed. This project includes PD&E study, public meeting coordination, Coast Guard coordination, mitigation and environmental permitting, geotechnical investigations, survey, right-of-way mapping, utility coordination, roadway, drainage, coastal hydraulics, structures, lighting and signing and pavement marking. This is a LAP project between the City of New Smyrna Beach and District Five. This project is currently in construction.
01/21 - Ongoing	**I-75 (SR 93) from Collier County Line to Gator Crossing Canal Bridge, FDOT District One, Lee County, FL** **Lighting Engineer of Record** for the milling and resurfacing of this 13.8-mile, 6-lane facility extending from Collier County Line to Gator Crossing Canal Bridge on I-75 (SR 93). The work includes milling and resurfacing the emergency median crossovers, existing frontage roads, ramps, shoulders, northbound and southbound lanes of I-75. It also includes bringing the existing Traffic Monitoring Systems into compliance as well as guardrail relocation/replacement and shoulder gutter replacement. Overall project includes bridge inspection, load rating, traffic related structures design, 3D Laser scanning, subsurface utility engineering, topographic, wetland delineation, resurfacing, restoration and rehabilitation, ATMS, intelligent transportation systems, lighting, maintenance of traffic, pavement design, signing and pavement marking, public involvement, utility coordination and a 3D model completed in OpenRoads Designer (ORD).

Bharathi Chigurupati resume continued

01/21 - Ongoing	**I-75 (SR 93) from Toll Booth to Collier Boulevard, FDOT District One, Collier County, FL** **Lighting Engineer of Record** for the milling and resurfacing of this 1.6-mile, 4-lane facility, extending from Toll Booth to Collier Boulevard on I-75 (SR 93). The work includes milling and resurfacing the northbound and southbound lanes and shoulders of I-75 and widening the inside median shoulders. Overall project includes bridge inspection, load rating, traffic related structures design, 3D Laser scanning, subsurface utility engineering, topographic, wetland delineation, resurfacing, restoration and rehabilitation, ATMS, intelligent transportation systems, maintenance of traffic, pavement design, signing and pavement marking, public involvement, utility coordination and a 3D model completed in OpenRoads Designer (ORD).
07/21 - Ongoing	**I-175/SR 594 Concrete Rehabilitation, FDOT District Seven, Pinellas County, FL** **Lighting Engineer of Record** responsible for preparing lighting plans for this Concrete Rehabilitation Project on I-175 from E. 16th Street South to 4th Street South in the City of St. Petersburg, Florida. I-175 (SR 594) is an Limited Access Interstate Highway. This roadway is an SIS corridor and varies from 4-lanes to 6-lanes. The concrete rehabilitation improvements will include rigid pavement rehabilitation for concrete pavement slabs of the existing mainline and ramps with milling and resurfacing of the asphalt portions of the mainline roadway, shoulders and ramp lanes. Services being provided include pavement design, slab maintenance scheduling, milling and resurfacing, drainage, signing and pavement markings, miscellaneous structures, lighting, design survey, Terrestrial Mobile LiDAR and public involvement.
03/20 - 03/22 SECTION 17 PROJECT	**SR 91 (Florida's Turnpike Mainline) Reconstruct and Safety Improvements from US 27 to Lake/Sumter County Line (MP 289.3 - 297.9 Southbound Only), Florida's Turnpike Enterprise, Lake County, FL** **Traffic Engineer** for signing and pavement marking plans of this $8.4 million project for the resurfacing and safety improvements of Turnpike's Mainline for approximately 8.5 miles. This project included milling, resurfacing, maintenance of traffic, repair/replacement of guardrail, cross slope correction, repair of existing box culverts, minor bridge repair and signing and marking improvements. Temporary traffic control plans (TTCP) incorporated Smart Work Zone (SWZ) elements along with detours for nightly lane closures. Deep milling was anticipated in several locations within the project limits. Twelve box culverts in the northbound and southbound direction were repaired due to crack and scaling defencies. The TTCP provided 10-foot Emergency Shoulder Use (ESU) in the northbound direction for the culvert repairs. Bridge joints were replaced and repairs for concrete spalls were completed at Palatlakaha Creek and CR 48 over Turnpike. Exclusion fencing details were provided for Gopher Tortoise. The project also included survey, environmental permitting and utility coordination.
06/18 - 05/21	**SR 50 Widening, FDOT Districts Five and Seven, Hernando and Sumter Counties, FL** **Signing and Pavement Marking Engineer of Record** for widening eight miles of SR 50 from 2-lanes to 4-lanes from east of US 301 to east of CR 757. The project extends through the Withlacoochee State Forest and involves extensive environmental coordination with US Fish and Wildlife Service, Southwest Florida Water Management District, US Forestry Service, Acquisition and Restoration Council, two FDOT Districts and local agencies. The river crossing is composed of five spans of AASHTO Type II Beams founded on driven concrete plies to match the configuration of the existing river crossing which will remain in place. The CSX bridges eliminate an existing at-grade rail crossing and will span the full railroad right-of-way with single spans of Florida-I 63 Beams on driven concrete piles with retaining walls at the bridge ends. This project required coordination with CSX and a local mining operation. Project includes roadway, drainage, bridges, signing and pavement marking, maintenance of traffic, environmental permitting, right-of-way mapping and public involvement.
02/19 - Ongoing	**Ridge Road at Suncoast Parkway Interchange (MP 12-13), Reynolds Smith & Hills, Inc. for Florida's Turnpike Enterprise, Pasco County, FL** **Lighting Engineer of Record and Signing and Pavement Marketing Engineer of Record** that was responsible for signing and pavement marking, as well as, lighting plans for the new Suncoast Parkway Interchange on Ridge Road in Pasco County. The project included diamond shaped interchange ramps and Ridge Road widening. Traffic services included full interchange lighting, intelligent transportation systems device deployment and FTE backbone fiber replacements as well as overhead guide signing. Project required coordination with Pasco County and Withlacoochee River Electric Cooperative, Inc.

Sections 17

LA1 Improvements: Fourchon - Golden Meadow
Lafourche Parish

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)

Past Performance Disciplines performed by Waggoner:
Road, Bridge, Traffic, CE&I/OV, Survey, Environmental, Right-of-Way, ITS, Other (Project Management), Other (Roadway Lighting), Other(SUE)

See project featured in this section.

17. FIRM EXPERIENCE:

Firm	Project Name	Project Relevance															Past Performance Disciplines												
		Alternative Delivery	Project Management & Support	Quality Control & Peer Reviews	Environmental/Permitting	Traffic Services	Surveying Services	SUE & Utility Relocation	Geotechnical Engineering	Roadway & Hydraulics	Bridge Design	Plan Development & Letting Support	Construction Support	Tolling	ITS Design & Support	Roadway & Aesthetic Lighting	Road	Bridge	Traffic	CE&I/OV	Geotech	Survey	Environmental	Right-of-Way	ITS	Other (Alternative Delivery)	Other (Project Management)	Other (Roadway Lighting)	Other (SUE)
Waggoner	I-10: E. Jct I-49 to Atch. Floodway Bridge		•	•	•	•	•	•		•		•	•				•		•			•	•	•			•		•
	I-49 South: Ambassador Caffery & US 90 Interchange		•	•		•				•	•	•	•				•	•	•								•		
	Hooper Rd Widening (LA 408) Blackwater-Joor		•	•	•	•	•	•		•		•					•		•			•	•	•			•		•
	LA 1 Improvements: Fourchon-Golden Meadow		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•
	I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR	•	•	•	•			•		•		•	•				•		•				•			•	•		•
DRMP	Wekiva Parkway Section 8 Interchange Design Build	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•		•		•		•
	SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•			•	•	•	•		•		•
	SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Blvd.		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•		•		•		•
Horrocks	US-89 Farmington to I-84 Progressive Design Build	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•			•	•	•	•	•	•	•	•
	Reno Spaghetti Bowl Xpress (SBX) Design Build	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•			•	•	•	•	•	•	•	•
	I-25 Comanche and Montgomery Interchanges Design-Build Program Management	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•			•	•	•	•	•	•	•	•
NTBA	Walter O. Bigby Carriageway (N. Pkwy Ext.)		•				•	•					•									•		•					•
	Rural Bridge Replacement Initiative Phase II						•	•														•		•					•
	Jimmie Davis Bridge (LA 511) Design-Build	•					•	•														•		•					•
Ardaman	I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR	•							•												•					•			
	I-20 Mississippi River Bridge Review		•						•												•						•		
	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167)								•												•								
AME	LA 561 Bridge Replacement over Boeuf River near Herbert								•												•								
Vectura	Belle Chasse Bridge & Tunnel Replacement (PPP)	•						•							•				•										
	I-12 to Bush - LA 3241 (I-12 - LA 36) Corridor Study							•											•										

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Project Name	I-10: East Junction I-49 to Atchafalaya Floodway Bridge	Past Performance Evaluation Category(ies)*		Road, Traffic, Survey, Environmental, Right-of-Way, Other (Project Management), Other (SUE)	
		Firm Responsibility	Prime		
Project Number	H.003003, H.010106, H.003014	Owner's Name	LADOTD		
Project Location	Lafayette & St. Martin Parishes	Owners Project Manager	Nick Olivier, PE		
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225.379.1133 | nicholas.olivier@la.gov				
Services Commenced by this Firm (mm/yy)	6/13	Total Consultant Contract Cost ($1,000's)		$3,174.7	
Services Completed by this Firm (mm/yy)	7/22	Cost of Consultant Services Provided by this Firm ($1,000's)		$2,846.7	

Project Description:

Waggoner (formerly Sigma) was the prime consultant for surveying and engineering services to replace and widen 15 miles of I-10 near Lafayette, LA. These projects were designed under 3 task orders in an IDIQ Roadway Design contract, 2 of which were designed concurrently under an accelerated delivery schedule. Waggoner was responsible for coordinating the multi-discipline project and preparing the final plan package. This included subconsultants and DOTD in-house staff responsible for bridge design, permanent signing, weigh-in-motion, roadway lighting, and SUE designations.

Project management responsibilities included scheduling, attending, and documenting all project design and review meetings, evaluating value engineering recommendations, developing a PMP for each segment, preparing a Financial Plan for Segment 1, and supporting DOTD for FASTLANE grant applications. Falcon questions were also addressed during letting.

The project includes adding one lane in each direction to the inside of I-10, a median barrier, bridge widening (designed by DOTD), WIM system relocations, and complex traffic management/sequencing to maintain two lanes of traffic throughout construction, interchange improvements at LA328 (Breaux Bridge) and LA 347 (Henderson). The Henderson interchange was modified to incorporate roundabouts at the EB and WB ramp termini.

The road and traffic design components include typical sections for both asphalt and concrete alternatives, horizontal and vertical geometrics with existing bridge structures constraining the design parameters, geometric details, and a detailed analysis of the sequence of construction that will maintain two lanes of traffic in each direction. Detailed hydraulic analysis of cross drains and a major outfall channel adjacent to LA 352 including HEC-RAS modeling was conducted to alleviate flooding problems at the Henderson interchange. A Level 4 TMP was also developed by Waggoner for each Segment.

Waggoner performed the topographic survey which included establishing GPS control for the entire 15-mile corridor, topography of the existing roadways, bridges, a depressed median, drainage structures and outfalls, interchanges, roadways along Melvin Dupuis, LA 347, LA 352, and utility crossings. DOTD survey and linework codes were used in the field. Inroads Survey, CADconform, and DOTD codes were used to prepare the topographic map and required location and survey deliverables. Waggoner coordinated with DOTD's right-of-way consultant for required right-of-way and COA modifications at Melvin Dupuis.

SUE Services included QLD mapping and QLC surveys, utility conflict matrices for each segment, assisting DOTD with utility coordination, and as-builts of relocated utilities prior to construction.

Waggoner also prepared permit sketches, public meeting exhibits, and attended public meetings for CE environmental clearance.

Waggoner provided construction support for all 3 segments. This included responding to RFIs, construction drawing reviews, reviewing contractor proposals, plan changes, and attending partnering meetings.

Project Relevance:

- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental/Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Plan Development & Letting Support
- √ Construction Support

Team Members Involved:

Robert Lear (PM), Miles Williams, Alex Farr, Bryan Harmon, Joshua Renard, Andrew Windmann

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Project Name	I-49 South: Ambassador Caffery & US 190 Interchange	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Other (Project Management)	
		Firm Responsibility	Subcontractor		
Project Number	H.002868	Owner's Name	LADOTD		
Project Location	Lafayette Parish	Owners Project Manager	Ryan Morvant, PE		
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225.379.1067 | Ryan.Morvant@la.gov				
Services Commenced by this Firm (mm/yy)	1/13	Total Consultant Contract Cost ($1,000's)	Unknown		
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$1,294.8		

Project Description:

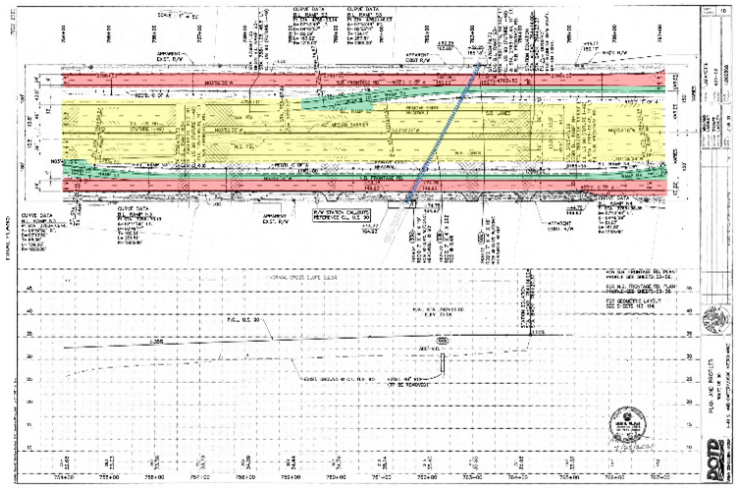
The I-49 Ambassador Caffery project upgrades an existing at-grade intersection on US 90 with a grade separated X-Pattern interchange on Future I-49. It includes two-lane one-way frontage roads, U-turns, MSE Walls, subsurface and open drainage systems, and signalized ramp intersections. The project also was designed to accommodate future flyover directional ramps to Ambassador Caffery Pkwy and continuation of the interstate and frontage roads southward.

Waggoner is a major sub for this project and was responsible for all roadway geometrics for the interstate, frontage roads, urban arterials, ramp connections, intersections, and transitions to existing roadways. Waggoner also prepared all existing and design drainage calculations and drainage plan profiles. All bridge design for the I-49 bridges over Ambassador Caffery were designed by Waggoner. We coordinated with Huval & Associates who designed the bridges over the BNSF Railroad at the north end of the project. Additional design responsibilities included traffic signal design, utility conflict matrix development, and construction support.

Waggoner is currently providing construction support, including shop drawing reviews, RFI's, change orders, and on-call services as needed.

Project Relevance:

- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Traffic Engineering & Design
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support



Team Members Involved:

Robert Lear, Miles Williams, Alex Farr, Bryan Harmon, Joshua Renard, Joshua Olivier, Kelsie Bankston, Andrew Windmann

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Project Name	Hooper Road Widening (LA408) Blackwater - Joor	Past Performance Evaluation Category(ies)*		Road, Traffic, Survey, Environmental, Right-of-Way, Other (Project Management), Other (SUE)
		Firm Responsibility	Prime	
Project Number	H.002316	Owner's Name	East Baton Rouge Department of Transportation and Drainage	
Project Location	East Baton Rouge Parish, LA	Owners Project Manager	Tom Stephens, PE	
Owners Address, Phone, Email	222 Saint Louis Street, 8th Floor, Baton Rouge, LA 70802 | 225.389.3186 | tstephens@brla.gov			
Services Commenced by this Firm (mm/yy)	10/12	Total Consultant Contract Cost ($1,000's)		$1,818
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$1,111

Project Description:

Waggoner was contracted by East Baton Rouge Parish Department of Transportation and Drainage, in cooperation with the FHWA and LADOTD, to provide NEPA environmental documentation, planning, topographic and property surveying, right-of-way mapping, and preliminary and final plans for this MOVEBR program project. Hooper Road is an existing two-lane rural roadway with steep open ditch drainage from Blackwater Road to Sullivan Road in suburban Central, LA. MovEBR is proposing capacity and safety upgrades to the corridor using a 4-lane boulevard with subsurface drainage, sidewalks, bike paths, and intersection improvements.

A formal Environmental Assessment was prepared by Waggoner and a FONSI was granted by FHWA. Waggoner prepared preliminary and final roadway and drainage plans for this 2.2 mile long corridor. The four-lane boulevard features a 16 foot wide raised median, 11 foot lanes, a dedicated five foot bike lane in both EB and WB directions, five foot sidewalks, and a new two-lane roundabout at the intersection of Hooper Road and Lovett Road. The sidewalks and pedestrian accommodations are ADA compliant and consistent with PROWAG guidelines. Turn lanes and R-CUT bulb outs were added to safely accommodate U-Turn movements throughout the boulevard section.

The construction plans include the following:

- Typical Sections
- Pay Item Quantities
- Roadway Plan and Profiles
- Drainage Plan and Profiles w/subsurface drainage systems
- Existing and Design Drainage Maps
- Geometric Layouts and Details
- PCC Pavement Joint Layouts and Graphical Grades
- Suggested Sequence of Construction
- Pedestrian Signal Plans
- Permanent Striping and Signing Layout
- Roadway Lighting Plans
- Utility Relocation Space Allocation Layouts
- Cross Sections

The topographic and property surveys and right-of-way maps were prepared in accordance to DOTD Location & Survey standards and deliverables. The ROW maps were reviewed by Location & Survey since this is a state highway.

Waggoner also performed QLD, QLC, QLB, and QLA SUE Services for the project. Test holes were performed at critical conflict points. A utility conflict matrix was prepared and updated throughout the design process.

As the prime consultant, Waggoner managed the project schedule, held and documented design meetings and status meetings with the client, and participated in cost risk assessments.

Project Relevance:

- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental/Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Plan Development & Letting Support

Team Members Involved:

Robert Lear, Miles Williams, Alex Farr, Bryan Harmon, Joshua Renard, Kelsie Bankston, Joshua Ricard

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)		
Project Name	LA1 Improvements: Fourchon - Golden Meadow - Phases 1 and 2	Past Performance Evaluation Category(ies)*	Road, Bridge, Traffic, CE&I/OV, Survey, Environmental, Right-of-Way, ITS, Other (Project Management), Other (Roadway Lighting), Other (SUE)
		Firm Responsibility: Sub. - Phase 1 Prime - Phase 2	
Project Number	700-29-0112 | H.008145 | H.004526	Owner's Name	LADOTD
Project Location	Lafourche Parish, LA	Owners Project Manager	Anna Hanks, PE / Ryan Morvant, PE
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225.379.1726 | Anna.Hanks@la.gov | 225.379.1067 | Ryan.Morvant@la.gov		
Services Commenced by this Firm (mm/yy)	2/03	Total Consultant Contract Cost ($1,000's)	Unknown
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$4,210

Project Description:

Waggoner (formerly Sigma) served as a subconsultant to Wilbur Smith for the design of a fully elevated 17-mile expressway on new alignment in coastal Louisiana between Golden Meadow and Fourchon, LA. This includes the line and grade study for all 17 miles, design and construction support for Phase 1 (Fourchon – Leeville), and preliminary design of Phase 2 (Leeville-Golden Meadow). Following Phase 1 completion, Waggoner is continuing environmental permitting for Phase 2.

Project Relevance:

- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental/Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support
- √ Tolling
- √ ITS Design & Support
- √ Roadway & Aesthetic Lighting

Project Management
- Schedule & Document Project Meetings
- Value Engineering/Cost Saving Measures
- Cost Risk Schedule Assessment (Post Katrina)
- Develop PMPs
- Assist with TIFIA Loan and TIGER Grant Applications
- Assist DOTD with MOU for Lighting
- Assist DOTD with Cooperative Endeavor Agreements with Greater Lafourche Port Commission

Quality Control & Peer Reviews
- Independent Technical Reviews for Bridge Design
- QA/QC review Of Phase 1 Design, Plans, & Special Provisions

Environmental / Permitting
- US Coast Guard Permit Apps
- COE – Section 10, 404, 408 Permit Apps
- LDNR – Coastal Use Permit Apps
- LDEQ – Water Quality Cert. App
- Wetland Technical Report Updates
- Compensatory Mitigation Plan Development
- Section 107 B.A. Report NEPA Compliance
- Assist LADOTD with Revised ROD Documents
- Mitigation Plan Compliance Reports/As-Builts

Traffic Engineering
- Permanent Signing
- Pavement Marking
- Interim and Ultimate Geometrics for Complex Freeway Interchanges, At-Grade Ti-Ins, and Toll Facility Design
- Toll System Electrical Design
- Roadway Lighting Design

Surveying
- Topo & Bathymetric Surveying For Pipelines, Construction Canal Dredging, & Wetland Mitigation Sites
- Assisted with Right-of-Way Maps

Subsurface Utility Engineering
- QL-D thru QL-A for Oil/Gas Field
- Utility Relocation Plans for Pipelines
- Utility Coordination for Active Oil/Gas Pipelines
- Complex Utility Conflict Matrix

Road Design (100% Responsible)
- Develop Design Criteria
- Horizontal and Vertical Geometry
- Plan Profiles
- Geometric Details
- Typical Sections
- Cross Sections

Bridge Design
- Type III and BT-78 Girder Spans
- 24" and 54" PPC Pile Bents
- General Plan & Elevation
- Span Details
- Typical Sections
- Framing Plans
- Superelevation Diagrams
- Pier Demolition Plans

Letting & Construction Support
- Falcon Responses & Plan Changes
- Construction Support For Phase 1
- Review Contractor Proposals
- Shop Drawing Review
- RFIs
- Punch List & Substantial Complete

Team Members Involved:

Miles Williams, Robert Lear, Josh Renard, Charlotte Gremillion

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Project Name	I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR	Past Performance Evaluation Category(ies)*		Road, Traffic, Environmental, Other (Alternative Delivery) Other (Project Management), Other (SUE)
		Firm Responsibility	Subconsultant	
Project Number	H.004100	Owner's Name	LADOTD	
Project Location	East Baton Rouge & West Baton Rouge Parishes	Owners Project Manager	Nick Olivier, PE	
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | Nicholas.Olivier@la.gov			
Services Commenced by this Firm (mm/yy)	10/20	Total Consultant Contract Cost ($1,000's)		$29,583
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$4,170

Project Description:

Waggoner (formerly Sigma) is the lead roadway design team member for this transformational transportation improvement for the Capital Region. It is being delivered in an accelerated time frame by an alternative delivery CMAR process. Our primary responsibility includes geometrics and road design for the frontage roads, ramps, and local roadway upgrades. We are also responsible for the drainage design for the entire project, which includes subsurface and open ditch systems.

The road design components include typical sections, plan profiles, drainage plan profiles, geometric layouts, geometric details, graphical grades, cross sections, complete streets pedestrian and bicycle facilities, pay item and quantity computations, and non-standard special provisions. Waggoner prepared all Design Reports for the project which included interstate, ramp, urban arterial, urban collector, local roads, and roundabout classifications. All associated design waivers and design exception documentation was also prepared by Waggoner. All plan development is being performed in accordance with DOTD electronic delivery standards.

Traffic engineering responsibilities include providing geometrics and alternatives for the IMR, complex urban and freeway geometrics, construction phasing, and suggested sequence of construction/MOT.

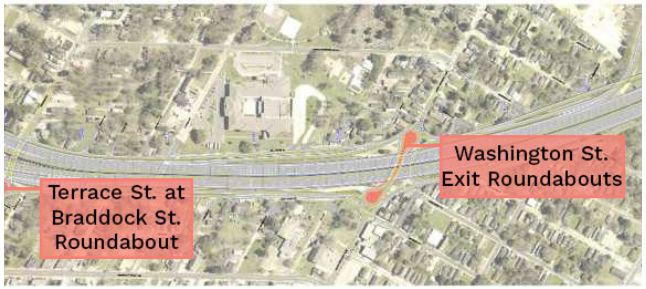
Waggoner also served as a sub for the Environmental Assessment NEPA process. Waggoner was responsible for the line and grade study geometrics, interchange alternatives, community connections meetings, public meetings and workshops, researching and compiling as-built plans, constructability reviews, opinion of probable costs, and ROW limits.

Waggoner also prepared SUE and Utility Relocation plans to consolidate utilities into a major duct bank. The duct bank minimizes the need for multiple relocations during project phasing and is a significant cost savings. We participated in utility coordination with DOTD, EBR Parish, and several utility companies.

Construction support includes shop drawings reviews, review and responses to RFIs, and review of contractor proposals made throughout the CMAR process.

Project Relevance:

- √ Alternative Delivery
- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental/Permitting
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Plan Development & Letting Support
- √ Construction Support



Team Members Involved:

Robert Lear, Miles Williams, Bryan Harmon, Alex Farr, Joshua Renard, Andrew Windmann, Josh Gonya, Kelsie Bankston, Charlotte Gremillion, Joshua Olivier, Joshua Ricard

17. FIRM EXPERIENCE:

Firm Name	DRMP, Inc.			
Project Name	Wekiva Parkway Section 8 Interchange Design-Build	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Geotech, Survey, Environmental, ITS, Other (Project Management), Other (SUE)
		Firm Responsibility	Prime Designer	
Project Number	240200-4-52-01	Owner's Name	The Lane Construction Corporation for FDOT District Five	
Project Location	Seminole County, Florida	Owners Project Manager	Dyelan Phillips	
Owners Address, Phone, Email	2601 Maitland Center Parkway, Maitland, FL 32751 | 407.331.3100 | djphillips@laneconstruct.com			
Services Commenced by this Firm (mm/yy)	10/18	Total Consultant Contract Cost ($1,000's)		$24,999
Services Completed by this Firm (mm/yy)	06/23	Cost of Consultant Services Provided by this Firm ($1,000's)		$12,510

Project Description:

This $263.3 million design-build project includes the design of a new 2.63 mile limited access toll road and system to system interchange connecting I-4, SR 417, and SR 429 that completes the beltway around Orlando and accommodates for future I-4 Beyond the Ultimate express lanes.

The project includes 20 new bridges and two bridge widenings with bridge types of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. There are 25 stormwater management facilities to address water quality, attenuation and floodplain impacts. DRMP was also responsible for the preparation of an Interchange Modification Report (IMR), permitting, design of retaining walls, noise walls, signing and pavement markings, signals, and lighting.

DRMP, in partnership with our Contractor, designed an innovative Alternative Technical Concept (ATC) that provided $25 million in project cost savings, improved operations and safety during and after construction, reduced bridge deck area by 200,000-SF, preserved four existing bridges, minimized overall impacts and long-term maintenance costs.

Project Relevance:

- √ Alternative Delivery
- √ Project Management & Support
- √ Quality Control Reviews and Peer Reviews
- √ Environmental/Permitting
- √ Traffic Engineering & Design
- √ Surveying
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development and Letting Support
- √ Construction Support
- √ Tolling
- √ ITS Design and Support
- √ Roadway and Aesthetic Lighting Design

Team Members Involved:

TJ Lallathin, George McLatchey, Rachel Schmidt, Allen Schrumpf, Anthony Smith, Brent Bass, Don Brown, Alex Urchuk, John Florez, Jim Highland, Justin Hayes, Carlos Martinez, Leo Rodriguez

17. FIRM EXPERIENCE:

Firm Name	DRMP, Inc.			
Project Name	SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279)	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Survey, Environmental, Right-of-Way, ITS, Other (Project Management), Other (SUE)
		Firm Responsibility	Prime	
Project Number	435784-1-3201 & 435785-1-32-01	Owner's Name	Florida's Turnpike Enterprise	
Project Location	Orange and Lake Counties, Florida	Owners Project Manager	Anil Sharma, PE	
Owners Address, Phone, Email	Turkey Lake HQ, MP 263 Bldg 5313, Ocoee, FL 24761 | 407.280.9969 | Anil.Sharma@dot.state.fl.us			
Services Commenced by this Firm (mm/yy)	06/16	Total Consultant Contract Cost ($1,000's)		$9,910
Services Completed by this Firm (mm/yy)	12/21	Cost of Consultant Services Provided by this Firm ($1,000's)		$4,703

Project Description:

This project consisted of the preparation of construction plans for the widening of six miles of SR 91 from a 4-lane to 8-lane roadway. The project replaced bridge structures at five locations (CR 438, Jones Road, Old 50, CR 455 and Blackstill Lake Road), replaced one pedestrian overpass structure (West Orange Trail over SR 91) and added a new alignment overpass structure for Fosgate Road over SR 91. The proposed West Orange Trail bridge is a two-span prefabricated steel truss bridge with aesthetic signage attached to the bridge. The bridge is fully enclosed with a 14' clear width and provides 12' of vertical clearance. The project also included the design of two roundabouts with landscaping and lighting adjacent to the CR 455 overpass structure. Plans and design included roadway, maintenance of traffic, drainage, utility coordination, structures, signing and pavement markings, lighting, intelligent information systems, landscaping, All Electronic Tolling (AET) facility toll gantries, and environmental permitting. The project also included design survey, subsurface utility engineering, right-of-way surveys and development of legal descriptions and sketches for the purchase of right-of-way for ponds and roadway improvements.

Project Relevance:

- √ Project Management & Support
- √ Quality Control Reviews & Peer Reviews
- √ Environmental & Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE and Utility Relocation
- √ Roadway & Hydraulic
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support
- √ Tolling
- √ ITS Design & Support
- √ Roadway & Aesthetic Lighting Design

Team Members Involved:

George McLatchey, Allen Schrumpf, Brent Bass, Don Brown, Steven D'Uva, Stephen Donegan, Nick Devito, John Florez, Jim Highland, Carlos Martinez, Leo Rodriguez

17. FIRM EXPERIENCE:

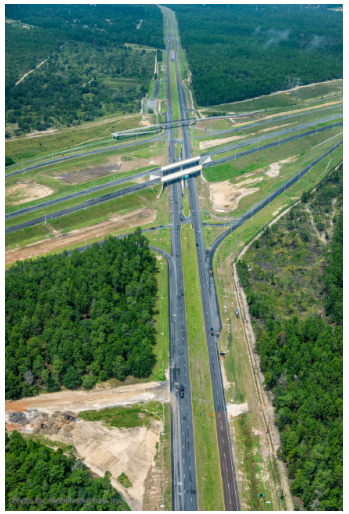
Firm Name	DRMP, Inc.			
Project Name	SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3)	Past Performance Evaluation Category(ies)*	Road, Bridge, Traffic, Geotech, Survey, Environmental, ITS, Other (Project Management), Other (SUE)	
		Firm Responsibility	Prime	
Project Number	405270-1-32-01	Owner's Name	Florida's Turnpike Enterprise	
Project Location	Hernando and Citrus Counties, FL	Owners Project Manager	Judith Fernandez	
Owners Address, Phone, Email	11201 N McKinley Drive, M-S-700, Tampa, FL 33612 | 813.975.4813 | judith.fernandez@dot.state.fl.us			
Services Commenced by this Firm (mm/yy)	06/07	Total Consultant Contract Cost ($1,000's)	$4,793	
Services Completed by this Firm (mm/yy)	12/17	Cost of Consultant Services Provided by this Firm ($1,000's)	$3,644	

Project Description:

Florida's Turnpike Enterprise sought a professional engineering services firm to design a pedestrian bridge structure to carry pedestrians on Suncoast Multi-Use Trail safely over US 98 adjacent to the Suncoast Parkway Section 2.

This project consisted of the preparation of construction plans for a 4-lane new alignment roadway. The project included five sites along SR 589 and one pedestrian bridge site over US 98; all using Florida-I Beams. Along SR 589, three sites consisted of twin overpass structures; one site consisted of a two-span structure over SR 589 with aesthetic piers; and the final site consisted of twin bridges over a Wildlife Crossing. All sites included the design of MSE retaining walls. The Suncoast Trail pedestrian bridge over US 98 includes a 258.5-feet long, two-span structure over US 98 consisting of Florida-I 54 Beams. The bridge includes an elevated switch-back structure at the south end consisting of 16 spans with a total length of 532.5-ft. The north approach is a straight ramp leading up to the bridge. The switch-back structure was founded on spread footings to eliminate pile foundations.

The existing Suncoast Trail carries pedestrians and cyclists along 42 miles through Hillsborough, Pasco, and Hernando counties. The new bridge over US 98 will be the continuation point of the trail into Citrus County, Florida as part of the Suncoast Parkway 2 project. Pedestrians and cyclists will be able to cross safely over US 98 to access the new Suncoast Trail extension. Safety upgrades for the bridge include an aluminum railing along the switchbacks and a fenced enclosure over US 98.



Project Relevance:

- √ Project Management & Support
- √ Quality Control Reviews & Peer Reviews
- √ Environmental & Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE and Utility Relocation
- √ Roadway & Hydraulic
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support
- √ Tolling
- √ ITS Design & Support
- √ Roadway & Aesthetic Lighting

Team Members Involved:

George McLatchey, Allen Schrumpf, Don Brown, Steven D'Uva, Nick Devito, John Florez, Jim Highland, Steve Wallace, Bruno Arriola, Mike Jaroch

17. FIRM EXPERIENCE:

Firm Name	Horrocks LLC (formerly Horrocks Engineers, Inc.)			
Project Name	US-89 Farmington to I-84 Progressive Design-Build	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Survey, Environmental, Right-of-Way, ITS, Other (Alternative Delivery), Other (Roadway Lighting), Other (SUE)
		Firm Responsibility	Lead Design	
Project Number	S-0089(406)398	Owner's Name	Utah Department of Transportation	
Project Location	Davis County, UT	Owner's Project Manager	Mike Romero	
Owners Address, Phone, Email	4501 South 2700 West, Salt Lake City, UT 84114 | 801.618.7746 | michaelromero@utah.gov			
Services Commenced by this Firm (mm/yy)	08/18	Total Consultant Contract Cost ($1,000's)		$382,485
Services Completed by this Firm (mm/yy)	06/23	Cost of Consultant Services Provided by this Firm ($1,000's)		$27,385

Project Description:

The US-89 project is a 12-mile reconstruction and widening project to convert US-89 into a six-lane freeway and convert six signalized intersections into grade-separated interchanges. US-89 is a major north-south urban arterial located within the cities of Farmington, Fruit Heights, Kaysville, Layton, and South Weber, approximately 20 miles north of Salt Lake City.

The project was constructed using the innovative delivery method Progressive Design-Build (PDB). PDB is a hybrid of CM/GC and Design-Build delivery methods and allows the owner to select a design-build team at the initial phases of the project, and direct them to build the desired project. As part of the Oak Hills Contractors Design-Build team, Horrocks and our teaming partner Michael Baker International served as the lead designers on this project for the preparation of final construction plans, specifications, survey, SUE utility agreements, ROW deeds, ROW acquisition, GIS, and contract documents.

Major elements of this project included a new roadway and interchange, new bridge structures, pedestrian bridge structures, retaining walls, noise walls, survey, SUE, utility relocations, traffic signals, lighting, ATMS, MOT, and storm drainage. This project also included coordination with Weber Basin Water Conservancy District and the Bureau of Reclamation for the final design and protection of a 78-inch aqueduct.

On UDOT's first PDB project, the team delivered a project budget eight weeks after the award using the environmental study's design documents for preliminary pricing of major scope elements. During preconstruction, we used the rapid design and cost iteration process from DB projects to make best-value decisions with UDOT's team to achieve the speed of DB with the collaboration of CMGC.

Project Relevance:

- √ Alternative Delivery
- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental/Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support
- √ ITS Design & Support
- √ Roadway & Aesthetic Lighting

Team Members Involved:

Ryan Pitts, Ashley Dowell, Spencer Stephenson, Dana Ames, Richard Hansen, Matt Horrocks, David Simmons

17. FIRM EXPERIENCE:

Firm Name	Horrocks LLC (formerly Horrocks Engineers, Inc.)			
Project Name	Reno Spaghetti Bowl Xpress (SBX) Design-Build	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Survey, Environmental, Right-of-Way, ITS, Other (Alternative Delivery), Other (Project Management), Other (Roadway Lighting), Other (SUE)
		Firm Responsibility	Lead Design	
Project Number	202901-001	Owner's Name	Nevada Department of Transportation	
Project Location	Reno, NV	Owner's Project Manager	Pedro Rodriguez	
Owners Address, Phone, Email	725 W 4th St, Winnemucca, NV 89445 | 775.301.0796 | prodriguez@dot.state.nv.us			
Services Commenced by this Firm (mm/yy)	01/20	Total Consultant Contract Cost ($1,000's)	$223,000	
Services Completed by this Firm (mm/yy)	02/23	Cost of Consultant Services Provided by this Firm ($1,000's)	$16,943	

Project Description:

The US-89 project is a 12-mile reconstruction and widening project to convert US-89 into a six-lane freeway and convert six signalized intersections into grade-separated interchanges. US-89 is a major north-south urban arterial located within the cities of Farmington, Fruit Heights, Kaysville, Layton, and South Weber, approximately 20 miles north of Salt Lake City.

The project was constructed using the innovative delivery method Progressive Design-Build (PDB). PDB is a hybrid of CM/GC and Design-Build delivery methods and allows the owner to select a design-build team at the initial phases of the project, and direct them to build the desired project. As part of the Oak Hills Contractors Design-Build team, Horrocks and our teaming partner Michael Baker International served as the lead designers on this project for the preparation of final construction plans, specifications, survey, SUE utility agreements, ROW deeds, ROW acquisition, GIS, and contract documents.

Major elements of this project included a new roadway and interchange, new bridge structures, pedestrian bridge structures, retaining walls, noise walls, survey, SUE, utility relocations, traffic signals, lighting, ATMS, MOT, and storm drainage. This project also included coordination with Weber Basin Water Conservancy District and the Bureau of Reclamation for the final design and protection of a 78-inch aqueduct.

On UDOT's first PDB project, the team delivered a project budget eight weeks after the award using the environmental study's design documents for preliminary pricing of major scope elements. During preconstruction, we used the rapid design and cost iteration process from DB projects to make best-value decisions with UDOT's team to achieve the speed of DB with the collaboration of CMGC.

Project Relevance:

- √ Alternative Delivery
- √ Project Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental/Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support
- √ ITS Design & Support
- √ Roadway & Aesthetic Lighting

Team Members Involved:

Matt Horrocks, Dana Ames, Ashley Dowell, Richard Hansen

17. FIRM EXPERIENCE:

Firm Name	Horrocks LLC (formerly Horrocks Engineers, Inc.)			
Project Name	I-25 Comanche and Montgomery Interchanges Design-Build Program Management	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Survey, Environmental, Right-of-Way, ITS, Other (Alternative Delivery), Other (Roadway Lighting), Other (SUE)
		Firm Responsibility	Prime	
Project Number	CN A301901	Owner's Name	New Mexico Department of Transportation	
Project Location	Albuquerque, NM	Owner's Project Manager	Joe Casares	
Owners Address, Phone, Email	1120 Cerrillos Road, Santa Fe, NM 87505 | 505.469.4239 | joseph.casares@dot.nm.gov			
Services Commenced by this Firm (mm/yy)	11/20	Total Consultant Contract Cost ($1,000's)	$278,000 (Ongoing)	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$21,909	

Project Description:

Horrocks is providing Design-Build (DB) Program Management for the Comanche and Montgomery Interchange project for the New Mexico Department of Transportation. Located along a busy section of I-25 in Albuquerque, the project involves the development of the DB procurement package, performance specifications, preliminary engineering design services, procurement of the DB team, and construction management of the final project.

Improvements at the Comanche interchange includes a new interstate bridge, new off-ramp location, additional interstate lanes, auxiliary lanes, frontage road improvements, advanced U-turns for frontage road circulation, and Comanche road improvements. Improvements at the Montgomery interchange (already designed) include similar components with new on and off ramp braided bridges, and multi-use trails.

Horrocks will be responsible for re-evaluating the Montgomery plans and modifying the design to suit the Comanche improvements, by combining project limits, quantities, general notes, schedules, details, build notes, suggested sequencing and other pertinent project information into one plan set.

Horrocks will be obtaining all certifications and other regulatory approvals and required authorizations, assemble bid documents, review proposed construction schedules and costs, review alternative concepts submitted by prospective contractors, assess project impacts and risks, and develop the RFQ/RFP packages for DB. During construction, the Horrocks team will monitor MOT traffic, provide public outreach, project oversight, validate design changes by the DB contractor and ensure project changes maintain funding obligation.

Project Relevance:

- √ Alternative Delivery
- √ Program Management & Support
- √ Quality Control & Peer Reviews
- √ Environmental / Permitting
- √ Traffic Engineering & Design
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support
- √ ITS Design & Support
- √ Roadway & Aesthetic Lighting

Team Members Involved:

Joe Sonnen, Shane Marshall, Ashley Dowell, Derek Stonebraker, Joe Serre, Ryan Pitts

17. FIRM EXPERIENCE:

Firm Name	NTB Associates, Inc.			
Project Name	Walter O. Bigby Carriageway (N. Pkwy Ext.)	Past Performance Evaluation Category(ies)*	Survey, Right-of-Way, Other (Project Management), Other (SUE)	
		Firm Responsibility	Prime	
Project Number	City Proj. No. 8-15	Owner's Name	City of Bossier City	
Project Location	Bossier Parish, LA	Owners Project Manager	Mark B. Hudson, PE	
Owners Address, Phone, Email	PO Box 5337, Bossier City, LA 71171 | 318.46.5801 | engineering@bossiercity.org			
Services Commenced by this Firm (mm/yy)	05/15	Total Consultant Contract Cost ($1,000's)	$4,900.6	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$1,313.3	

Project Description:

NTBA provided control, topographic, property, and bathymetric surveying services, QL A, B, C, and D subsurface utility designation/ locating, as well as surveys in support of subsurface utility engineering, right-of-way acquisition plats/maps, and legal description preparation for approximately two miles of roadway right-of-way for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge in Bossier City, LA. Bathymetric surveying services were performed to accurately determine the river bottom and channel location in association with the design of a new storm water outfall into the river and separate bathymetric surveying services in support of a levee seepage analysis required by the USACE. NTBA is also responsible for the environmental assessment, public hearings, and conceptual design as well as currently performing Construction Management Support Services. This project is being completed in accordance with the Louisiana Location and Survey Manual, CI/ASCE Standard 38-02, and City of Bossier standards.

The project contains two multi-lane traffic circles with an estimated construction cost of $42.3 million. The area included a major thoroughfare, local streets, riverbanks, levee crossings, and railroad rights-of-way. This project consists of the design of the Walter O. Bigby Carriageway from north of Eatman Street to Benton Road, Walter O. Bigby follows an existing roadway for a portion of the alignment, then continues northward on new alignment between the Red River Levee and Union Pacific Railroad, crosses existing Union Pacific Railroad tracks with a bridge structure and connects to Benton Road at a new signalized intersection. Total project length includes approximately 5,300 feet of reconstructed city streets and 3,600 feet of new four-lane streets, which includes a 1,470-foot bridge structure.

Project Relevance:

- √ Project Management & Support
- √ Surveying Services
- √ SUE & Utility Relocation
- √ Construction Support

Team Members Involved:

Paul Rossini, Mike King, John King, Bryan Bunch, Grant Gilleon

17. FIRM EXPERIENCE:

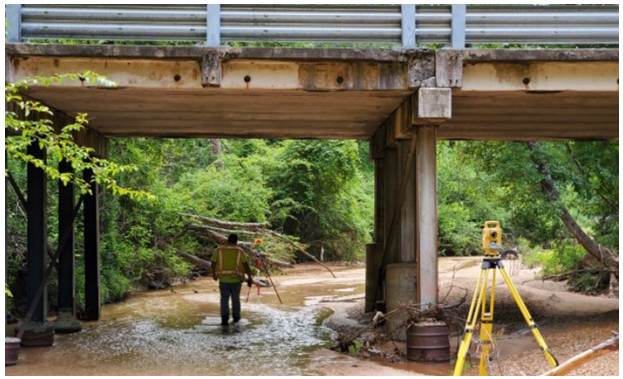
Firm Name	NTB Associates, Inc.			
Project Name	Rural Bridge Replacement Initiative Phase II	Past Performance Evaluation Category(ies)*		Survey, Right-of-Way, Other (SUE)
		Firm Responsibility	Subcontractor	
Project Number	4400019338	Owner's Name	LADOTD Baton Rouge	
Project Location	Districts 02, 03, 07, 61, & 62	Owners Project Manager	Valerie Tourres, PE	
Owners Address, Phone, Email	1201 Capitol Access Rd, Baton Rouge, LA 70802 | 225.379.1894 | Valerie.Tourres@la.gov			
Services Commenced by this Firm (mm/yy)	09/20	Total Consultant Contract Cost ($1,000's)		$1,251.7
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$1,251.7

Project Description:

NTBA is performing GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements throughout South Louisiana. Topographic surveying includes surveying of all sub-surface drainage structures, 200 feet upstream and downstream with cross-sections every 50 feet along channels, deck gutter lines, centerline of joints, low chord elevations, bent locations, and right-of-way 800 feet either side of structure. NTBA produced electronic topographic drawings in MicroStation depicting all utility and topographic information. Data was provided to the engineering consultant for incorporation into their hydraulic model being utilized to evaluate the system.

Boundary surveying has been performed for 15 bridges with approximately 50 parcels. Services include surveying of each parcel affected by either construction servitude or additional right-of-way requirements as well as production of property survey submittal, preliminary and final right-of-way maps, and parcel descriptions. All services are being completed in accordance with the Location and Survey Manual Addendum A and all currently accepted Location and Survey Automated procedures.

* NTBA served as a subconsultant to Waggoner (formerly Sigma) with the end client being LADOTD.



Project Relevance:

√ Surveying Services
√ SUE & Utility Relocation

Team Members Involved:

Paul Rossini, Mike King, Grant Gilleon, Bryan Bunch, B. Davis, Patrick Staiano, John King

17. FIRM EXPERIENCE:

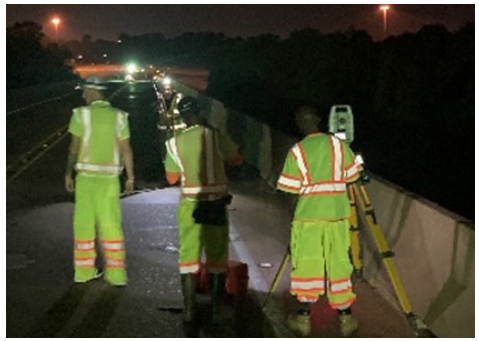
Firm Name	NTB Associates				
Project Name	Jimmie Davis Bridge (LA 511) Design-Build	Past Performance Evaluation Category(ies)*		Survey, Other (SUE), Right-of-Way	
		Firm Responsibility	Subconsultant		
Project Number	H.001779	Owner's Name	James Construction/ Huval & Associates, Inc.		
Project Location	Bossier & Caddo Parishes, LA	Owners Project Manager	Aaron Dupont		
Owners Address, Phone, Email	18484 E. Petroleum Drive, Baton Rouge, LA 70809 | 225.442.6362 | adupont@prim.com				
Services Commenced by this Firm (mm/yy)	01/22	Total Consultant Contract Cost ($1,000's)		$1,140.0	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$1,140.0	

Project Description:

NTBA is performing static GPS control, topographic and property surveying services, traffic control, utility coordination services, QL A, B, C, & D utility designating/locating, as well as preparing title takeoffs, 60% Right-of-Way Maps, Final Right-of-Way Maps, and legal descriptions for the design-build project to replace the Jimmy Davis Bridge across the Red River. The scope of this project consists of constructing a new four lane structure carrying LA 511 across the Red River, converting LA 511 (Jimmie Davis Hwy) into a four-lane, median-divided highway on the east side of bridge; as well as providing full access interchanges between LA 511 and Clyde Fant Memorial Parkway and Arthur Ray Teague Parkway. NTBA designed and implemented a Traffic Control Plan for a bridge closure to verify the horizontal and vertical control set by LADOTD during the original survey and verified the vertical control for both sides by running digital levels across the bridge, which was not performed in the original survey. All of this was completed during night shifts to ensure the safety of employees and the public as well as to avoid traffic disruptions.

NTBA performed property surveys and title take-offs for approximately 50 properties adjacent to the route and a property survey submittal prepared with apparent right-of-way shown. Final Mylar Right-of-Way Maps have been submitted for 21 parcels requiring right-of-way taking. The set included 21 plans sheets and one title sheet.

NTBA performed SUE services to designate all utilities within the project limits. A conflict matrix was created showing the utilities in conflict with the construction. We are coordinating with the utility owners to relocate utilities that conflict with the construction and will monitor the relocation to ensure compliance with relocation plans. NTBA is utilizing the Louisiana Department of Transportation Survey and Design Manual Addendum A as well as CI/ASCE Standard 38-02.



Project Relevance:

- √ Alternative Delivery
- √ Surveying Services
- √ SUE & Utility Relocation

Team Members Involved:

Paul Rossini, Mike King, Grant Gilleon, Bryan Bunch, Patrick Staiano, John King

17. FIRM EXPERIENCE:

Firm Name	Ardaman & Associates, Inc.				
Project Name	I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR)	Past Performance Evaluation Category(ies)*		Geotech, Other (Alternative Delivery)	
		Firm Responsibility	Subconsultant		
Project Number	H.004100.5	Owner's Name	LADOTD		
Project Location	East Baton Rouge Parish, LA	Owners Project Manager	Nicholas Olivier		
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA | 225.379.1133 | nicholas.olivier@la.gov				
Services Commenced by this Firm (mm/yy)	07/21	Total Consultant Contract Cost ($1,000's)		$20,800	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$692	

Project Description:

The Construction Management at Risk (CMAR) project scope consists of widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 mile. Ardaman is the Geotechnical Consultant on the CMAR team and is currently providing geotechnical support for Segment 1 which starts near the I-10 and I-110 split between Napoleon and St Joseph Streets to Acadian Thruway entrance and exit ramps.

Ardaman previously completed 58 soil borings and associated laboratory testing based on LADOTD standards, and 11 electronic cone penetration tests (ECPT) in the preliminary portion of the widening project between Napoleon Street and Louise Street under the current retainer contract in support of the project. In addition, Ardaman performed geophysical surveys along the entire alignment, which allowed for survey of the subsurface conditions between the boring locations. Ardaman is currently performing 37 additional soil borings along the Segment 1 area to supplement existing data along the alignment.

Engineering services include supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile and analyze all the supplied soil boring data provide by LADOTD and the additional borings that are currently being performed. The engineering analyses consist of detailed selection of design reaches and design soil parameters, slope stability and settlement of earth retained structures, soil-structure interaction with existing structures, deep foundation design, and load testing recommendations. A preliminary geotechnical assessment report was prepared, and a final geotechnical design report will be submitted.

Project Relevance:

√ Alternative Delivery
√ Geotechnical Engineering

Team Members Involved:

Robert Jewell, Megan Bourgeois, Ross McGillivray, Jarmon King, Chandler Willis, Casey Floyd

17. FIRM EXPERIENCE:

Firm Name	Ardaman & Associates, Inc.				
Project Name	I-20 Mississippi River Bridge Review	Past Performance Evaluation Category(ies)*		Geotech, Other (Project Management)	
		Firm Responsibility	Prime		
Project Number	H.004646, H.010603, H.010612.6	Owner's Name	LADOTD		
Project Location	Madison Parish, LA	Owners Project Manager	Chris Nickel		
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA | 225.379.1100 | Chris.Nickel@la.gov				
Services Commenced by this Firm (mm/yy)	10/09	Total Consultant Contract Cost ($1,000's)		$7,326	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$7,326	

Project Description:

Ardaman conducted a geotechnical study to develop a list of technically feasible remedial alternatives to decrease the potential for ground movements to occur at the site of the I-20 Bridge. Movement of the east abutment of the bridge was first realized in 2001 during an inspection. Over the years Mississippi DOT has retained several consultants who have studied the problem, but no viable solution was identified. Ardaman conducted a comprehensive review of past slope stability evaluations and recommendations. This task was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers, and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses.

As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

Ardaman is currently managing a phase of the project which involves upgrading the entire instrumentation communication system. It also includes gathering and continuously monitoring various types of instrumentation data, inspects of the site, and monitoring changes in topography by obtaining periodic survey data.

Project Relevance:

√ Project Management & Support
√ Geotechnical Engineering

Team Members Involved:

Megan Bourgeois, Robert Jewell, Ross McGillivray, Jarmon King, Chandler Willis, Casey Floyd

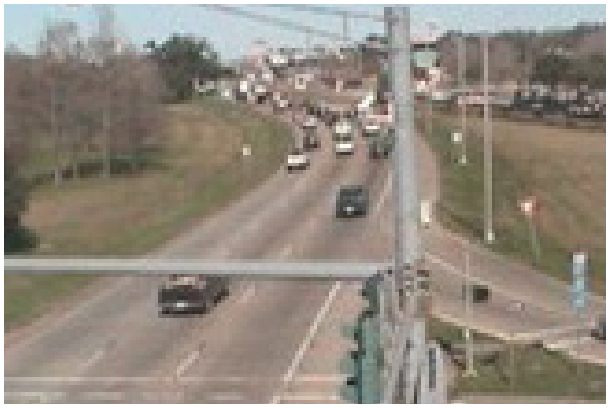
17. FIRM EXPERIENCE:

Firm Name	Ardaman & Associates, Inc.			
Project Name	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167)	Past Performance Evaluation Category(ies)*		Geotech
		Firm Responsibility	Subconsultant	
Project Number	H.004273.5	Owner's Name	LADOTD (Client: Stantec)	
Project Location	Lafayette Parish, LA	Owners Project Manager	Chris Nickel	
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA | 225.379.1100 | Chris.Nickel@la.gov			
Services Commenced by this Firm (mm/yy)	07/15	Total Consultant Contract Cost ($1,000's)		$21,000
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$1,889

Project Description:

The overall project includes construction of a freeway with accompanying interchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles, 3.5 of which consist of elevated structure. The project includes one three-level directional interchange at Kaliste Saloom Road (majority of interchange on structure); two full diamond interchanges at University/Surrey Street and Willow Street; two single point diamond interchanges at Johnston Street and 2nd/3rd Streets with associated railroad grade separations and arterial cross street studies involved; and various cross street connections at Pinhook Road, Jefferson Street, Mudd/Simcoe Street, Donlon Street, Castille/Martin Luther King Road and several minor streets.

The scope of services for this project includes preconstruction engineering design and related services for the construction of 5 miles of freeway consisting of a 3.5 mile-elevated structure that will include pile supported approach slabs, pile foundations, slope stability, pavement recommendations, embankment settlement, development of an advanced load test program, earth retaining structures, pavement design recommendations, and development of a design report presenting the geotechnical recommendations. The goal of the project is to design and construct the freeway and connecting infrastructure within the parameters and commitments of the selected alternative. Ardaman is currently conducting the geotechnical field investigation which consists of approximately 400 deep and shallow borings and Cone Penetrometer (CPT) soundings (including field reconnaissance, gaining rights of entry, completing utility location, GPS location and water table elevations), laboratory testing, and geotechnical engineering analyses and design for this project.



Project Relevance:

√ Geotechnical Engineering

Team Members Involved:

Megan Bourgeois, Robert Jewell, Ross McGillivray, Jarmon King, Chandler Willis

17. FIRM EXPERIENCE:

Firm Name	Adaptive Management & Engineering, LLC				
Project Name	LA 561 Bridge Replacement over Boeuf River near Herbert	Past Performance Evaluation Category(ies)*		Geotech	
		Firm Responsibility	Subconsultant		
Project Number	H.001970	Owner's Name	Caldwell and Richland Parish		
Project Location	Caldwell and Richland Parishes, LA	Owners Project Manager	Larry Sant, PE		
Owners Address, Phone, Email	11923 Sun Belt Ct., Baton Rouge, LA 70809 | 225.293.2460 | Lsant@geoengineers.com				
Services Commenced by this Firm (mm/yy)	3/24	Total Consultant Contract Cost ($1,000's)		Unknown	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$25	

Project Description:

The Louisiana Department of Transportation and Development (LADOTD) is performing engineering and design for the replacement of the Route LA 561 bridge over the Boeuf River in Herbert, LA. GeoEngineers was requested to perform the geotechnical exploration and laboratory testing services. As part of the GeoEngineers team, AME is currently performing a full suite of laboratory testing services for the project, per DOTD requirements.

Justin Ator and Stephannie Campbell are overseeing the testing and QA/QC for the project. A laboratory summary will be provided to GeoEngineers after overall review from Gregory and Venu.

Geotechnical Laboratory Testing

- Standard Classification of Soils in general accordance with ASTM International (ASTM) D2488 up to 200 samples
- Gradation of soils (ASTM D422) up to 200 samples
- Moisture content determination (ASTM D2216) up to 50 samples
- Atterberg limits determination (ASTM D4318) up to 150 samples
- Compressive strength determination (ASTM D2166/D2850) up to 150 samples
- Consolidation Test with rebound (ASTM D2435) up to 8 samples
- Specific gravity (ASTM D792) up to 8 samples
- QA/QC of laboratory data
- Lab summary of results

Project Relevance:

√ Geotechnical Engineering

Team Members Involved:

Gregory Mattson, Venu Tammineni

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	Belle Chasse Bridge & Tunnel Replacement PPP	Past Performance Evaluation Category(ies)*	Traffic	
		Firm Responsibility	Subconsultant	
Project Number	H.004100	Owner's Name	LADOTD	
Project Location	Belle Chase, LA	Owners Project Manager	Nickolas Olivier, PE	
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-1133 | Nicholas.olivier@la.gov			
Services Commenced by this Firm (mm/yy)	04/19	Total Consultant Contract Cost ($1,000's)	Unknown	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$211	

Project Description:

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

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

Project Relevance:

√ Alternative Delivery
√ Traffic Engineering & Design
√ Construction Support

Team Members Involved:

Brin Ferlito, Laurence Lambert, Reece Rodriguez

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study	Past Performance Evaluation Category(ies)*		Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.004100	Owner's Name	DOTD	
Project Location	Lacombe, LA	Owners Project Manager	Joachim C Umeozulu, PE	
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-1386 | Joachim.Umeozulu@la.gov			
Services Commenced by this Firm (mm/yy)	09/16	Total Consultant Contract Cost ($1,000's)		$1,895
Services Completed by this Firm (mm/yy)	05/17	Cost of Consultant Services Provided by this Firm ($1,000's)		$84

Project Description:

As part of the DOTD TIMED program, Vectura prepared a formal traffic study for the new alignment of LA 3241. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. The study included analyses for intersection and corridor improvements such as median openings, spacing of openings, signalized, unsignalized, and roundabout intersections.

Task 1 Data Collection

Vectura collected the following traffic data for 10 intersections:

- 7-day (mainlines) and 2-day (side streets) 24-hour tube counts with vehicle classification
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic Signal warrants, radar speed studies, and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes

Task 2 Traffic Study

This task included a roundabout study as defined in EDSM VI.1.1.5, VI.1.1.1, and DOTD Traffic Engineering Manual Section 20.2. This task included the following elements:

- Performed Vistro and Sidra analyses for existing conditions
- Performed Vistro and Sidra analyses for implementation and design years.
- Intersection alternatives included restricted median openings, signalized and unsignalized intersections, median U-turns at existing signal locations, restricted crossing U-turn (RCUT) intersections, and roundabouts
- Developed Vissim model of the preferred corridor layout
- Developed Draft Traffic Study Report (3 copies)

Task 3 Safety Analyses

- Developed 3-year crash analyses report as per DOTD standards

Project Relevance:

√ Traffic Engineering & Design

Team Members Involved:

Brin Ferlito, Laurence Lambert

Section 18

I-220/I-20 Interchange Improvements & BAFB Access Design Build
Bossier Parish
H.003370

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)
Lead Road Design Firm

Past Performance Disciplines performed by Waggoner:
Road, Traffic, Environmental, Other(Alternative Delivery), Other(SUE)

18. APPROACH AND METHODOLOGY:

INTRODUCTION

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.) has assembled a unique team of professionals and subject matter experts to support the DOTD's Critical Projects. Waggoner's recent merger with of Sigma strengthens our portfolio as a Gulf Coast regional transportation and water engineering firm that is ranked number 391 in ENR's Top 500 Design Firms of 2024. Additionally, Waggoner is part of the Trilon Group, a national family of companies that have a shared vision, shared values, and share services to better support our clients. Our project team members DRMP, Inc. and Horrocks Engineers, Inc. are also part of the Trilon family. Collectively, we will be responsible for 87% of the work under the IDIQ for Critical Projects contract. This teaming arrangement provides DOTD with the attention, responsiveness, and experience of a tenured local consultant combined with nationwide resources and subject matter experts in all service disciplines included in this contract.

Nothing matches having a consultant with DOTD experience at your fingertips. Waggoner has also partnered with NTB Associates, Inc., Ardaman & Associates, Inc., Vectura Consulting Services, LLC, and Adaptive Management & Engineering, LLC. Together, we have a longstanding relationship with DOTD and have an excellent track record of successful project delivery. All members of the Waggoner team have previously worked together and are committed to partnering with DOTD throughout the life of this contract.

IDIQ BACKGROUND AND UNDERSTANDING

Based on our conversations with members of DOTD's Critical Projects, Project Development, Traffic Engineering, and Innovative Procurement sections, we gained a clear understanding of the breadth and depth of projects that may be assigned under this IDIQ contract. **The Waggoner team successfully delivered projects to DOTD, covering all 13 service disciplines listed in Attachment A of the advertisement.** Additionally, Waggoner (formerly Sigma) held multiple IDIQ/Retainer contracts for various DOTD programs including Roadway Projects (44-2747), Roadway Design Services (44-19010), Highway Safety (44-2710), SUE Services (44-19183 & 44-25512), and Bridge Preservation (44-0634). Notably, we successfully completed three major interstate projects in Lafayette and St. Martin Parishes (I-10: E. Jct I-49 to Atchafalaya Floodway Bridge) as separate tasks under an IDIQ contract. For the I-10 Lafayette projects, Waggoner's scope of services covered 9 of the 13 items listed in Section A. We also collaborated with DOTD and other IDIQ consultants on the remaining 4 items (Geotechnical, Bridge, ITS/Roadway Lighting), excluding the Alternative Delivery item. These I-10 Lafayette projects are showcased in Section 17.

Waggoner understands the contracting elements included in the advertisement, including the secondary selection process as outline in Attachment C. We acknowledge the critical project time assigned to this advertisement in Attachment A. **Our team has dedicated overlapping resources and personnel for the major disciplines to handle multiple task assignments as needed.** We are dedicated to meeting DOTD's needs including any fast-track schedules through the multitude of resources that our team has readily available.

APPROACH AND KEYS TO SUCCESS

Waggoner's approach to this IDIQ contract comes from experience on DOTD projects and is rooted in communication and partnership. The following approach is what we consider to be the keys to successfully delivering projects:

- √ **Assemble A Highly Qualified and Experienced Design Team:** The Waggoner team members have a long-standing history of successfully delivering DOTD projects. In addition, we have previously worked together with great success. Our Trilon family members DRMP and Horrocks bring experience and innovation to DOTD to spark exciting conversations and effective solutions.
- √ **Maintain a Staffing Plan to Carry Past Experience Forward:** The key personnel assigned to this project are the same individuals who have gained critical experience on similar projects. This will ensure that DOTD receives the highest caliber services and expertise necessary for success.
- √ **Define Expectations Early:** Communication is always the primary key to success. We intend to discuss DOTD's expectations and how the Waggoner team intends to meet or exceed those expectations during the task order negotiation, scoping and schedule development process. These will be documented and carried forward throughout the entire life of the contract.
- √ **Establish Communication Protocols and Documentation:** As part of our Project Management Plan, we will establish a communication matrix identifying key team members, assignments, and responsibilities. All communications between the Waggoner team and DOTD will be through Robbie Lear (PM) and/or a task order Project Manager. All major meetings and discussions will be documented. All submittal reviews, comments, and decisions will be documented. Waggoner has adopted DOTD's Form DR as our standard for documenting all submittal review comments and responses. This form originated in the Design Build process and has a proven track record for effectively addressing and resolving comments.
- √ **Diligent Project Management:** The Waggoner team project manager, Robbie Lear, will actively work the project schedule, monitor the budget, and forwardly orchestrate the design team to meet the project goals for each task order.
- √ **Site Visits:** Nothing compares to putting your eyes on the existing conditions to give you the big picture and detail needed to successfully design a project. For each task order, all key personnel will visit the site to see firsthand lay of the land, constraints, and existing conditions of the project corridor.

- √ **Quality Control:** Last but not least, the most important key to project delivery success is quality control. Waggoner has a rigorous quality control process that will be incorporated throughout the life of the contract. Every submittal will be reviewed for both technical accuracy and relevant content. A copy of our quality control procedures will be submitted to DOTD upon selection.

Contract Management, Task Order Management, & Staffing Assignments

As the prime consultant, Waggoner will serve as the primary point of contact for DOTD. Robert Lear, PE, LSI, with over 28 years of experience in successfully managing and delivering DOTD transportation projects, will be the overall contract manager responsible for all administrative and management duties. Upon receiving a task order from DOTD, Robert will assign a project manager from Waggoner. Together, they will collaborate with DOTD to develop the task order scope, estimate, and schedule. The selection of the project manager will depend on the type of project and the background/experience that best aligns with the project goals. We anticipate that projects will primarily require expertise in road, bridge, and/or alternative delivery.

Because IDIQ contracts can encompass a wide variety of disciplines in both size and scope, Waggoner has established a team structure that designates key individuals as team leaders for each of the primary disciplines outlined in the Scope of Services. These team leaders, who are subject matter experts, will offer technical guidance to the project delivery team and serve in an advisory capacity to the project manager. Depending on the number of simultaneous task orders issued, our preference is to have the applicable team leaders serve as active members of task order delivery and in responsible charge.

METHODOLOGY

The DOTD Project Delivery Manual (PDM) will serve as the backbone for our methodology. The Waggoner team will implement the systematic plan and principles identified in the PDM and applicable discipline manuals for all projects under this contract.

Scope and Task Development: Immediately after task order assignment, Waggoner will work with the DOTD PM to develop the scope and items necessary to deliver the project. This includes defining the project purpose and need. We will work with the project manager to develop the blank manhour spreadsheet, sheet count, and conceptual delivery schedule. Any NEPA or Stage 0 requirements will be discussed, and a Stage 0 Preliminary Scope and Budget Checklist completed. This early coordination ensures that both DOTD and Waggoner are on the same page with respect to project goals, deliverables, and expectations. Once these items are established, independent manhour estimates will be completed for negotiated fee determination.

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

The following addresses each enumerated item in Attachment A of the advertisement:

1. ALTERNATIVE DELIVERY

Alternative delivery methods are used to solve complex engineering challenges or constraints associated with a project's risk, schedule, or budget. Waggoner, DRMP, and Horrocks have extensive experience in using alternative delivery methods to help owners manage these challenges and constraints. As the program manager, designer, or independent quality firm (IQF), we will partner with DOTD to achieve successful project outcomes through Construction Manager/General Contractor (CMGC) or Construction Manager At-Risk (CMAR), Design-Build (DB), and Progressive Design-Build (PDB) delivery. Waggoner (formerly Sigma) has the following alternative delivery experience on DOTD projects:

Design-Build: I-10: Highland Road to LA73 (Lead Designer), I-20/I-220 Interchange at Barksdale Airforce Base (Lead Road Design), and I-10/I-12 College Flyover Ramp (CE&I/OV Team Member).

CMAR: I-10: LA 415 to Essen Lane (COREX10 Design Team Lead Road Design). Horrocks is providing DOTD advisory role and partnering meeting facilitation.

Public Private Partnership: Belle Chasse Bridge & Tunnel Replacement (Drainage Design and Independent Technical Reviews).

Our team partner Horrocks is a national leader in Transportation Infrastructure Alternative Delivery, especially **Progressive Design Build (PDB)** projects. Horrocks was the lead designer for the first PDB delivery in Utah and has since successfully delivered several other large projects with this innovative method. We are members of the Design-Build Institute of America and are well versed in the recently published Universal Best Practices (2023).

Waggoner - DRMP - Horrocks Trilon Partners have worked on more than $17.5 billion in construction value on alternative delivery jobs.	
WAGGONER	Design Firm or Owner Verification Firm for 5 DOTD Alternative Delivery Projects (Design-Build/Cmar/Public Private Partnership) Valued at $1 Billion in Construction Value.
DRMP	Lead Design Firm for 20 Design-Build Projects in Florida Valued at $1.5 billion in Construction Value.
Horrocks.	Lead Design Firm for Alternative Delivery on more than $15 Billion Total Alternative Delivery in Construction.

Horrocks has extensive experience in developing technical provisions and preparing procurement documents such as RFQs and RFPs and assisting in defining qualification criteria, developing evaluation and selection criteria, reviewing and evaluating SOQs to shortlist qualified teams, and preparing necessary internal documents and reports for all **Alternative Delivery methods**. They also provide support in responding to RFIs and reviewing Alternative Technical Concepts (ATCs).

2. PROJECT MANAGEMENT

The Waggoner team is well versed in project management and has partnered with DOTD on every project to ensure project goals and commitments are achieved.

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

Project Meetings: The Waggoner PM and DOTD PM will schedule, attend and facilitate all project meetings. Relevant team members will be invited, agendas prepared ahead of meetings, and meeting minutes provided within 48-72 hours.

Value Engineering (VE) and Cost Schedule Risk Assessments (CSRA): Waggoner has participated in CSRA for major projects such as the LA1 Improvements Project and the I-10: LA415 to Essen CMAR Project. The Waggoner team takes a comprehensive approach to VE and CSRA. We first develop a study plan before VE, which aims to provide valuable information about the project background, the scope of work, and logistical details. We then identify high-cost areas of the project and develop less expensive solutions that meet the project's purpose and needs while retaining feasibility. Any VE or CSRA will follow FHWA's Consultant-Led CER Guidance.

Project Management Plans (PMP): A PMP will be developed for every task order with the goal of submitting a project that is comprehensive, realistic, deliverable, and endorsed by all team members. This plan includes the overall project schedule, key personnel, budgets, scope of work, responsibility matrix, deliverables, QA/QC forms, checklists, project-specific Design Quality Plans, and communication protocols. Internal project SharePoint sites will be established for team collaboration and file sharing. All deliverables to DOTD will be transmitted via ProjectWise by the project manager. It is assumed that a design-bid-build project will follow the standard milestone deliverables already established by DOTD for each discipline.

Initial Financial Plans: Waggoner, DRMP, and Horrocks have prepared FHWA approved Financial Plans. These plans are required for projects with cost from $100M to $500M or TIFIA funded projects and include annual updates. Waggoner prepared IFPs for the I-10 Lafayette projects shown in Section 17.

Grant Applications & Agreements: The Waggoner team will support DOTD throughout the full grant lifecycle – from pre-award planning through application, award, and closeout. Our offerings solve shared mission needs across multiple coordinating agencies while incorporating unique business and regulatory processes for grant programs. Waggoner has previously assisted with FASTLANE grants for I-10 Lafayette Widening (Section 17), TIFIA loan and TIGER grant applications for LA1 (Section 17). DRMP has extensive experience in acquiring funding and managing state and federal incentive, emergency, and disaster federal grant programs, as well as vast knowledge of state and federal grant programs, particularly those subject to the Office of Management and Budget's Uniform Guidance (2 CFR 200). DRMP's experience in obtaining funding for state and local governments has included the Federal RAISE grants, the Federal Transit Administration Grant Program, and the Highway Safety Grant Program.

Miscellaneous Project Agreements: Waggoner has assisted DOTD in preparing various project agreements such as Memorandums of Understandings (MOUs) with stakeholders, and Cooperative Endeavor Agreements. Our DRMP and Horrocks partners have performed this task for several local and state agencies as well.

QC REVIEWS/PEER REVIEWS

Jason Crain, PE leads our QA/QC program with assistance of subject matter experts throughout the US. With our collective expertise in bridge, road, traffic, and geotechnical design, the Waggoner team will focus on elements of design, constructability, and serviceability when performing Quality Control reviews and Peer reviews. Spanning across the country, the Waggoner team has unique insights on lessons learned and best practices from various states. We will leverage this experience into our reviews and expound on effective solutions to provide high quality finished products to DOTD. This practice will be incorporated on independent peer reviews of

design and calculations performed by others as well as reviewing conformity of the construction specifications (standard, supplemental, or special provisions) with the plan set to ensure DOTD and the public receive safe, durable, and high-quality final products. Waggoner currently provides this service to East Baton Rouge Parish for major engineering programs.

4. ENVIRONMENTAL AND PERMITTING SERVICES

Our multidisciplinary team is committed to protecting and enhancing environmental, scenic, historic, and natural resources, supporting each project with meticulous documentation. Eric Jefferson, PE, AICP, PTP (Waggoner) and Joce Pritchett, PE (DRMP) lead our environmental and permitting team. They will be involved in all projects requiring this service.

NEPA Support: Our services include a full range of NEPA document preparation including programmatic categorical exclusions, categorical exclusions, environmental assessments, and environmental impact statements. Compliance with NEPA and other environmental laws, rules, and regulations will be guided by DOTD's Stage 1 process described in the 2022 Manual of Standard Practice document. Waggoner, DRMP, and Horrocks have prepared NEPA documentation for federally funded transportation projects throughout the United States. Staff from DRMP have previously worked for the DOTD's Environmental Section. Our team will utilize this experience to navigate the Stage 1 process and arrive at a preferred alternative with appropriate permits and mitigation measures.

Permit Applications: Waggoner prepared and secured all permits for the LA1 project (see Section 17) including USACE Section 10, 404, 408 permits, LDNR Coastal Use Permits, US Coast Guard Bridge Permits with Navigational Lighting Plans, LDEQ Water Quality Certifications, CPRA Levees Letters of No Objection, Wetland Technical Reports, Section 107 BA Reports.

Mitigation Compliance: Waggoner prepared USACE and LDNR CMD approved Compensatory Mitigation Plans, Monitoring Plans, and Monitoring Reports for the LA1 project. We also incorporate any Stage 1 NEPA commitments in our PMPs to ensure these elements are included in the final design plans and constructed projects.

Material Sampling & Testing: The Waggoner team offers exceptional environmental and construction materials testing services for transportation departments, state and local governments, federal agencies, and special districts throughout the US. Successful materials testing and reporting requires a knowledgeable, dedicated, and responsive testing staff. We have several certified materials testing labs throughout the western United States providing flexibility to implement material testing services. Our laboratory staff conducts construction materials testing services for soils, aggregates, concrete, and bituminous products such as HMA, SMA, and BWC. Access to our in-house labs provides a faster turnaround of test results, allowing the contractor to make adjustments and keep projects on schedule.

5. TRAFFIC ENGINEERING & DESIGN SERVICES

Brin Ferlito, PE, PTOE and Laurence Lambert, PE, PTOE, PTP, both with Vectura, will lead our Traffic Engineering Services team. They will be involved in all projects requiring this service. They have years of experience providing Traffic Engineering Services to DOTD and both have taken the DOTD Traffic Engineering Process and Report course.

Traffic Data Collection: Data collection will be performed in accordance with procedures and specifications included in the DOTD Traffic Engineering Manual, ITE Manual of Transportation Engineering Studies, MUTCD, FHWA Traffic Monitoring Guide, Highway Capacity Manual, and The Manual of Transportation Engineering Studies (2nd Edition). Data collection includes counts for 24-hour volume and classification, turning movements, peak hour, ADT, bicycles, and pedestrians to name a few. We utilize the latest technology and rigorous QA/QC processes to provide highly accurate datasets.

Traffic Modeling & Analysis: The Waggoner Team has experienced transportation engineers that are well versed in the traffic models used by DOTD to analyze complex alternatives. We utilize TranPLAN, TransCAD, CORSIM, VISSIM, HCS, Sidra, and Synchro to analyze and compare alternatives. Our Vectura traffic discipline leads have a complete understanding of how to format Traffic related studies and reports to DOTD's standards.

Traffic Control Analysis: The Waggoner Team has experience preparing traffic control analyses for applications such as Intersection Control Evaluations, Access Management, Queue Analyses in accordance with DOTD EDSMs and policies. We have experience with FHWA Cap-X tools, Safety Performance for Intersection Control Evaluation (SPICE) tools, Sidra, Vissim, and HCS software. Traffic signal design, operations, equipment, signs, inventory and signal plans are prepared according to DOTD's Signal Manual.

Intersection Control, Signing & Pavement Marking Design: The Waggoner Team's traffic and road design experts are trained in applying the MUTCD, DOTD Pavement Marking Manual, DOTD Sign Manual, and standard plans. This includes regulatory, warning, guide and construction zone signing, temporary and permanent pavement markings, and signalization.

Geometric Design & Reviews: The Waggoner team has geometric experts trained in the application of the 2017 DOTD Minimum Design Guidelines, AASHTO Green Book, Roadside Design Guide, DOTD Road Design Manual, DOTD Complete Streets Manual, DOTD EDSMs, MUTCD, and various AASHTO and NCHRP reports. Our geometrics experts work with the various disciplines to ensure the proper design criteria are applied and documented. We have successfully delivered complex geometric projects to DOTD.

Transportation Management Plans: The Waggoner Team follows EDSM VI.1.1.8 requirements for TMP development. Our engineers will coordinate with DOTD to obtain traffic volume and safety data to perform safety analysis and alternative route analysis. If historic data is not available, we will follow the Traffic Study Scope of Services as outlined on the DOTD Traffic

Engineering website. Along with specifying the correct TTC Details, the traffic team will coordinate with the bridge/road designers on a Work Zone Impact Management Strategy document to minimize risk and delays to the traveling public.

Develop Access Justification Reports (AJR), IJRs, & IMRs: The Waggoner Team lead for Traffic Engineering services, has prepared Access Justification Reports for DOTD projects that include Interchange Justification Reports (IJRs) and Interchange Modification Reports (IMRs). Our transportation engineers have the requisite knowledge and tools to develop deliverables that will address the FHWA 8 Policy Points needed for approval.

6. SURVEYING SERVICES

Paul Rossini, PLS (NTB), Patrick Staiano, PLS (NTB), and Jace Ricard, PLS (Waggoner) lead our surveying team. They understand the processes and delivery requirements as outlined in the DOTD Location & Survey Manual (Oct. 2023) and Addendum A (March 2024).

Topo, Bathy, Boundary Surveys: All surveys begin with control surveys. Horizontal and vertical precisions and control standards will meet or exceed DOTD requirements and the appropriate datums, projections, and geoids will be defined. Control sketches will be approved by DOTD prior to commencement of topo/bathy/boundary surveys. Data collection will utilize RTK, robotic total stations, or 3D LiDAR Terrestrial Scanning methods where appropriate depending on terrain to ensure proper accuracies. Digital levels are used to establish vertical control at TBMs. The DOTD Feature Code Guide Book will be used to code all data and attributes.

NTBA, Waggoner, and DRMP have extensive experience performing and collecting bathymetric survey data of lakes, streams, and rivers to determine underwater features, depths of channels, water bodies, location of debris and tree stumps on lake bottoms, and bottom profiles utilizing single beam and multibeam equipment. Our survey crews have the experience required to access and navigate shallow marsh and water bodies by boat.

Drainage Maps: Drainage maps will be prepared by overlaying the preliminary project design limits onto an aerial/topographic map. All drainage structures within the design limits will be surveyed for location, type/size, and inverts obtained as part of the normal topographic survey. Drainage structures that fall outside the design limits but within 300 feet will be located for size/type and invert by a crew assigned to drainage structures only. The drainage structures that fall outside the 300-foot buffer but inside the drainage area limits will be surveyed for type & location only.

Right-of-Way Maps and Title Work: Once the final alignments are established, we will begin to obtain title reports, if not provided by DOTD, for the affected properties for inclusion in the ROW maps. We will begin the Base ROW maps according to DOTD standards. Final ROW maps will be produced within 45 days of authorization to proceed, typically after the JPR meeting. All the ROW mapping, title takeoffs, title reports, and property surveying will be in accordance with DOTD standards.

7. SUE & UTILITY RELOCATIONS

Josh Renard, PE (Waggoner) will lead our SUE/Utility team. **Waggoner has served as the prime consultant on multiple DOTD IDIQ contracts for SUE Services since 2017** and have performed all the services identified in the advertisement scope of work. NTB Associates also has experience in performing SUE Services for DOTD.

SUE Quality Levels A-D: Waggoner own the following software and equipment to perform Quality Levels B and A SUE Services:

- **Ground-Penetrating Radar:** Leica DS2000 4-wheeled radar utility detector with CT2000G controller. Dual antenna 250MHz and 700 MHz frequencies.
- **Telecom Toner and Wand:** Radiodetection RD8100 has the capability to add specific frequencies to dial into a telecom utility's specific locating frequency.
- **Electromagnetic Pipe and Cable Locating Equipment capable of both passive and active means of detection:** Radiodetection RD8100 has both passive and active means for detection with multiple frequencies and power filters to eliminate noise and interference.
- **Vacuum Truck:** Atakapa Services, a Waggoner partner firm, has multiple vac trucks available to support all Quality Level A test holes and site restoration services needed for this contract.

Waggoner uses a systematic approach to SUE services. We hold conversations with the DOTD (HQ and District Utility Specialist), the design team, and utility owners early in project development to identify constraints and requirements from all parties. Existing utility maps or permit drawings are used to depict QL-D locations and all visible above ground features collected in the topo surveys are presented to identify critical areas. QL-B designations and QL-A locates are performed in accordance with ASCE38-22 and LA 811 requirements.

Utility Conflict Matrices: Waggoner prepares utility conflict matrices to guide the utility coordination process. Conflict points are identified, appropriate locate methods are recommended, and final disposition/ resolution of conflicts are determined through the use of this form.

8. GEOTECHNICAL ENGINEERING SERVICES

Introduction: Ardaman & Associates, Inc. (Ardaman) specializes in geotechnical engineering consulting including field and laboratory investigations, foundation evaluation and design, geotechnical performance monitoring and construction quality assurance inspection and testing. Ardaman brings a wealth of experience in the transportation and infrastructure arena with our 40 year relationship with DOTD and multiple other agencies and industries. Ardaman maintains offices in Baton Rouge, New Orleans, and Shreveport, Louisiana. Adaptive Management & Engineering (AME) is a DBE geotechnical firm located in Baton Rouge who provides geotechnical, instrumentation, lab testing, and construction monitoring services.

Geotechnical Field Investigations & Analysis: Ardaman performed numerous subsurface investigations for new and/or existing transportation

structures, many of which include field reconnaissance (rights of entry, utility locations, access, GPS location, elevation determination, mobilization/ demobilization), water table elevations, deep soil borings, shallow roadway borings, cone penetrometer test (CPT) soundings, field resistivity imaging, geotechnical laboratory testing, development of field and laboratory results database, geotechnical analysis and design (slope stability, embankment settlement, pile foundations, drilled shaft foundations, pile- supported approach slab design, bridge foundation static and dynamic load test programs, earth retaining structures and culvert design), construction monitoring and geotechnical instrumentation installation and monitoring including developing programs detailing duration of reading, and installing and monitoring piezometers, inclinometers, Shape Accel Arrays, settlement monitoring devices and other geotechnical instrumentation in all types of surface and subsurface conditions.

Geotechnical Laboratory Testing Services: Our Ardaman Baton Rouge laboratory is accredited by AASHTO for methods under both AASHTO Materials Reference Laboratory (AMRL) and Cement and Concrete Reference Laboratory (CCRL), validated by the United States Army Corps of Engineers (USACE), and accredited by the Louisiana Environmental Laboratory Accreditation Program (LELAP) through the Louisiana Department of Environment Quality (LDEQ). Ardaman's geotechnical testing laboratories are operated under a certified quality assurance system implemented and maintained by engineers serving as on- site QA officers. All laboratory data is subject to quality control checks and is then processed electronically to generate soil boring logs and gINT database files in standard DOTD format. Our laboratories have the capability to perform all laboratory tests anticipated for a typical task order for this contract. AME's Baton Rouge lab is also LELAP accredited.

Geotechnical Construction Monitoring: Ardaman has successfully provided construction monitoring of multiple transportation projects. Our Louisiana engineering staff has been trained to use the Pile Driving Analyzer (PDA), Wave Equation Analyses, oversight and interpretation of static load tests, development of pile driving criteria and inspector's chart based on the test or monitor piles and selecting final pile tip elevations based on results of load tests and/or dynamic monitoring results. Our staff is also trained in drilled shaft foundation inspection including review of Contractor's Installation Plan, and oversight of excavation and completion of required DOTD forms. Megan Bourgeois, P.E., and Chae Hrenyk both completed the National Highway Institute's (NHI) Drilled Shaft Inspector's training course and are certified in the full scope of inspection of the construction of drilled shafts.

9. ROADWAY DESIGN & HYDRAULIC ENGINEERING SERVICES

Alex Farr, PE (Waggoner) and Bryan Harmon, PE (Waggoner) lead our roadway design and hydraulic engineering team. They will be involved in all projects requiring this service.

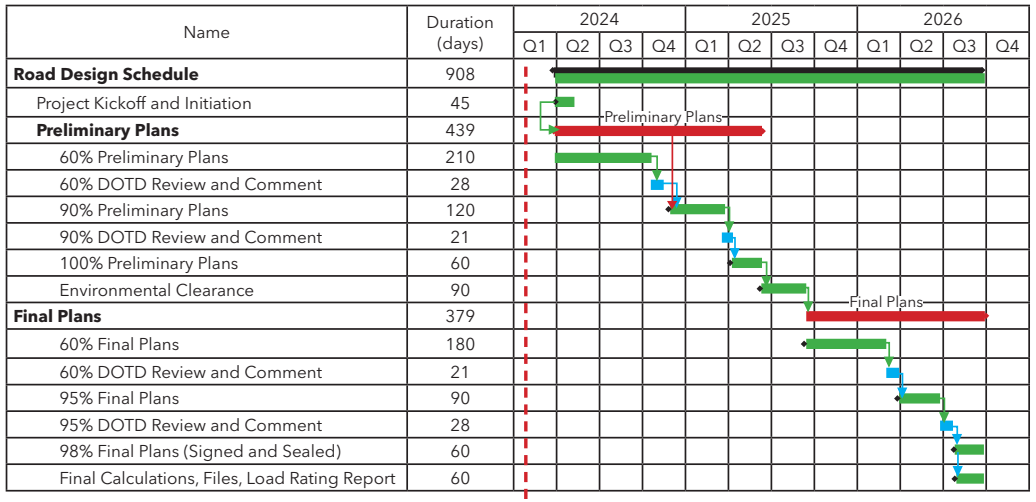
Hydraulic Analysis & Design: DOTD's HydroWin software and DOTD's Hydraulics Manual will be the primary tools for hydraulic design on typical roadway projects. We also have experience in running detailed 1D and 2D HEC-RAS models for various applications including watershed modeling and bridge hydraulics, along with other FHWA Hydraulic Toolbox programs.

Type, Size, Location Parameters for Drainage Structures: Waggoner specializes in water resources. Our engineers and designers have expertise in understanding DOTD's drainage structure standard plans for catch basins, headwall, wingwalls, conflict boxes, etc. We also understand DOTD's design criteria for storm selection, Design Flood Stage, minimum roadway elevations, construction clearance requirements, scour, and erosion control.

Project Design Criteria: The DOTD Minimum Design Guidelines serves as the basis for all roadway projects. Waggoner will prepare Design Reports for each functional class of roadway on each project. We have experience preparing Design Waivers and Design Exceptions where applicable. All design reports, waivers, exceptions, and selected road design guidance from manuals, EDSMs, NCHRP reports, standard plans, etc are documented in the Project Design Notebook & Calculations.

Roadway Design: Waggoner (formerly Sigma) has been preparing roadway plans for DOTD for over 30 years. We utilize Microstation, InRoads, and CadConform to design and create roadway plans and calculations. We know DOTD's preliminary and final plan delivery requirements and milestones as shown in the Road Design Manual. For a typical road design project, the preliminary plan phase focuses on establishing the horizontal and vertical geometrics, typical sections, drainage design, cross sections, and conceptual sequence of construction components. The final plans phase provides fully detailed drawings and quantity computations. The DOTD Road Design Manual, AASHTO Green Book 2018, Roadside Design Guide, DOTD Hydraulics Manual and accepted DOTD reference material will be used to guide the road design process. We also understand that Alternative Delivery projects operate under different milestone deliverables. Waggoner has developed a Roadway/Bridge Crosswalk Table to translate the DOTD Standard Project Delivery to an Alternative Delivery Project Delivery.

Name	Duration (days)	2024				2025				2026			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Road Design Schedule	908												
Project Kickoff and Initiation	45												
Preliminary Plans	439												
60% Preliminary Plans	210												
60% DOTD Review and Comment	28												
90% Preliminary Plans	120												
90% DOTD Review and Comment	21												
100% Preliminary Plans	60												
Environmental Clearance	90												
Final Plans	379												
60% Final Plans	180												
60% DOTD Review and Comment	21												
95% Final Plans	90												
95% DOTD Review and Comment	28												
98% Final Plans (Signed and Sealed)	60												
Final Calculations, Files, Load Rating Report	60												



10. BRIDGE DESIGN SERVICES

Structural-related task orders will be prioritized and tailored to assure that the appropriate staff are available to execute the scope of the task order proficiently and expeditiously as needed. Bridge-related task orders under this contract will likely include priority repair/rehabilitation projects requiring immediate attention under tight time constraints. The Waggoner team, including DRMP, Inc and Horrocks Engineers, Inc. offers experience both locally, regionally, and nationally on a vast range of bridge and other miscellaneous structure designs that make us well qualified to provide the structural services necessary to develop bridge and structural solutions.

Bridge and Structural Evaluations: Structural-related task orders will be prioritized and tailored to assure that the appropriate staff are available to execute the scope of the task order proficiently and expeditiously as needed. Bridge-related task orders under this contract will likely include priority repair/rehabilitation projects requiring immediate attention under tight time constraints. The Waggoner team, including DRMP, Inc and Horrocks Engineers, Inc. offers experience both locally, regionally, and nationally on a vast range of bridge and other miscellaneous structure designs that make us well qualified to provide the structural services necessary to develop bridge and structural solutions.

Once information gathered in the field is provided back to the office, we will evaluate the current load-carrying capacity of the superstructure and substructure components, factoring in the condition of the bridge ascertained from information verified in the field. From this analysis, we will then propose a scope of work that would reestablish a minimum desirable capacity, if feasible and practical.

For a final deliverable, Waggoner will submit a comprehensive bridge evaluation report which will be completed in accordance with Bridge Design Section's Design Policy for Bridge Rehabilitation/Repair Projects found in the BDEM Part I, Chapter 6. The Waggoner team will adhere to the procedures prescribed in this policy to summarize the evaluation results and recommended scope actions.

Bridge Load Ratings: Waggoner will create LRFR current-condition bridge ratings for the bridge components in accordance with AASHTO Manual for Bridge Evaluation, BDEM Part II, Volume 5 – Bridge Evaluation/Rating, and applicable BDTMs. The type of load rating provided will depend on the service being performed. Current condition load ratings will be calculated and provided for existing bridges either as a stand-alone analysis, or as a result of a rehabilitation evaluation. As-designed load ratings would be provided for new bridge structures and would be subsequently followed by as-built load ratings that capture the actual constructed new bridge or bridge rehabilitation action. These load ratings will be summarized in a final report that includes the completed load rating summary sheet, details related to the site, and all supporting calculations.

Bridge and Structural Analysis & Design: Our team will perform load analysis and create complete and accurate design calculations for any structural component needed under this contract, all in accordance with the latest versions of the AASHTO LRFD Bridge Design Specifications as amended and supplemented by the BDEM and applicable BDTMS. This includes reinforced concrete structural components (culverts, slabs, bridge decks, foundation elements, walls), prestressed and post-tensioned precast concrete elements (such as girders and segmental superstructure and substructure elements), and steel components typically seen on longer span bridge crossings or for crossings having geometric features that are not suitable for concrete applications.

In addition to bridge-related component design, the Waggoner team will provide structural analysis and design of highway sign/light/ITS support structures, highway safety hardware, roadway (and bridge) barriers, and retaining/sound walls. These designs will adhere to the available AASHTO specifications or guide specifications.

Conceptual/Feasibility Studies for Major Projects: The Waggoner team is well positioned to provide early stage, conceptual studies, layouts, cost/economy comparisons that may be requested by the Critical Projects Section. Our team's breadth of experience across the country allows us to use experience and lessons learned on previous projects to apply at the onset of project planning. As impact to traffic and overall construction time is often a major evaluation and decision point, our team can leverage our experience with Accelerated Bridge Construction (ABC) techniques to provide DOTD with alternatives to conventional construction details. This innovative approach includes intrinsic benefits in safety, quality, durability, social costs, and environmental impacts, all which ultimately result in construction, time, and operating costs to the Department and the public. Furthermore, the Federal Highway Administration (FHWA) has encouraged states to dedicate 20% of bridge funding towards ABC.

11. PLAN DEVELOPMENT & LETTING SUPPORT SERVICES

Preliminary & Final Plan Preparation: The preliminary and final plan development process will typically follow the Road Design Tasks for Completion Milestones chart shown as Figure 1-03 in the DOTD Road Design Manual. Milestone submittals will be made at the 30%, 60%, 90% and 100% Preliminary Plan stages and at the 60%, 95% and stamped/signed 98% Final Plan stages. These submittals will include plans and associated calculations.

All required documentation such as review comments and responses, QA/QC certifications, Constructability Review Forms, Opinions of Probably Construction Cost (OPCC), and calculations will be submitted with each appropriate delivery milestone. A final OPCC will accompany the final plan submittal, including all required special provisions and NS-Item specification write-ups.

Key Milestones:

- **Predesign Tasks** – Project team site visit, initiate Stage 0 environmental checklist or NEPA requirements, initiate control and topographic survey,

initiate existing drainage map, initiate data collection for traffic data, initiate geotechnical data collection including cores, shallow borings, and deep borings

- **30% PP** – Geometric design reports, establish typical sections, pavement design, initiate utility conflict matrix.
- **60% PP** – Establish horizontal and vertical geometry, design drainage, preliminary bridge concept, sequence of construction, cross sections. Initiate property survey.
- **95% PP (Plan In Hand)** – address all comments from previous submittals, review for constructability, finalize required R/W, Preliminary QA/QC checklist,
- **100% PP** – Finalize property survey and base R/W Maps, create permit sketches,
- **60% FP** – Initiate bridge final design, finalize typical section and drainage design,
- **Joint Plan Review** – Meet with Location Survey, finalize R/W Maps
- **95% FP (Advance Check Prints)** – Final plan review meeting with project team, bridge design and complete details, final QA/QC checks, final constructability/biddability review,
- **98% FP** – Full-sized sealed plans, final calculations and files, final special provisions, and final construction cost estimate submitted to DOTD.
- **100% FP** – All final plans, specifications & estimates completed. Plans transmitted to General Files and letting date set.

*The Waggoner Task Order Project Manager will facilitate the Plan-in-Hand and Final Plan Review meetings. Typically, DOTD Location and Survey section facilitates Joint Plan Review meetings, however we will support and assist them with scheduling and summarizing the minutes of this and any other meetings held under this contract.

Letting Support Services: Once the project has been advertised for bids, our team will be on hand to provide responses to Contractor questions submitted via the Falcon/WebSuite online site. If any questions result in the need for plan revisions, we will update the affected sheet(s) in accordance with EDSM No. I.1.1.28 - Procedures for Final Plan Transmittal and Final Plan Modifications including Plan Revisions and/or Plan Changes Resulting from Change Orders. Waggoner understands the time-sensitivity of these responses and will strive to provide quick, yet thorough replies once we are made aware of any new inquiry.

12. CONSTRUCTION SUPPORT

We plan to keep our project managers and discipline leads involved with the project into the construction stage. This includes working with the DOTD Project Manager, the District personnel, and the CE&I consultants to address RFI's, assisting with solutions to unforeseen field conditions, reviewing project submittals from the contractor, and preparing plan changes when necessary. Some of the anticipated construction submittals include fabrication drawings for structural components, product selections, and value engineering proposals. We will review each of these submittals to ensure conformity with the contract plans and specifications. These reviews will adhere to our internal QC/QA procedures, like our plan production processes.

Waggoner has provided construction related engineering support for several projects including design-bid-build and design-build projects. Having experience on some of the Department's largest construction projects, we have already shown, and will continue to strive for, great partnership with the client and contractor throughout the construction timeframe.

13. OTHER SERVICES

Tolling Implementation & Design: Our team has the experience and capabilities to implement intelligent tolling systems proven to address pressing industry problems such as fare collection, road condition monitoring, incident detection, and rule enforcement. Implementing these intelligent systems minimizes revenue leakage with up-to-date automatic operating systems and it provides a better user experience by offering price guarantee strategies to users. The Waggoner team is well versed in the design, construction, and implementation of these systems.

ITS Design and Services: Our partners, DRMP, Inc. have extensive experience with ITS management, operations, and maintenance engineering and inspection. They will incorporate their knowledge of designing and maintaining ITS as it is needed on specific projects. ITS Design will take into consideration the following: new or existing fiber routing and system equipment, potential Utility Make Ready (UMR), work, existing slack fiber, system architecture, existing or new CCTV, splicing and access to new or existing signal cabinets. As a part of the design process, contract documents are prepared including Project Special Provisions, Quantity Estimates for Bid items, and Engineers cost estimate.

Roadway Lighting: Roadway lighting services will mainly adhere to the procedures and standards established in DOTD's "A Guide to Constructing, Operating, and Maintaining Highway Lighting Systems" document. Existing lighting system designs/retrofits will be governed by the original agreements along with subsequent amendments. Waggoner has experienced personnel in the planning, design, operation, and maintenance of roadway/pathway illumination and the electrical design requirements necessary to provide increased visibility, better obstacle recognition at higher speeds, and increased driver comfort resulting in more efficient traffic flow, greater user security, and economic growth.

Aesthetic Lighting: Aesthetic lighting will typically be desired on bridges in urbanized areas in order to create a visual focal point in a location that is otherwise dominated by standard blank streets and building lighting. Points of emphasis will be placed on driver safety, while creating a bold, memorable look consistent with other color schemes used in the community. The Waggoner team offers both civil and electrical engineers well-versed in context sensitive solutions and lighting design.

Sections 19-23

19. WORKLOAD:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
WAGGONER FORMERLY SIGMA CONSULTING GROUP	Road	44-19379, H.013797	LA 30: EBR PL - I-10 (Environmental Assessment)	$86,020
		44-19010, H.010652	LA 73: US 61 (Airline) – Essen Lane	$ -
		44-19010, H.010116	LA 1088: Soult and Trinity Roundabouts	$63,423
		4400004666, H.002868	Ambassador Caffery & US 90 Interchange Construction Support	$37,988
	Bridge	4400019338	Rural Bridge Replacement Initiative Phase II (South) (16 Project #'s)	$690,555
		4400025041	IIJA Off-System Bridge Program, District 62 (6 Project #'s)	$643,030
	Survey	4400023782, H.013429	Entity Contract for Downtown Thibodaux Sidewalks	$ -
	CE&I/OV	4400019680, H.013897	Owner Verify Services for College Drive Flyover Ramp I-10/I-12 W	$34,615
	Other (Alternative Delivery)	unavail., H.004791	Belle Chasse Bridge & Tunnel Replacement	$ -
		44-18646, H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	$3,134,352
		44-24084, H.009300	CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)	$ -
	Other (SUE)	4400008711, H.004526	Leeville - Golden Meadow (Ph. 2 Permits)	$205,175
		4400019183, H.014375	US 190W Roundabouts, Slidell, Utility Coordination-SUE (on-hold)	$ -
		4400019183, H.001711	Saline Bayou relief & Mill Cr. Brs. - Water Lines Locate & Design (SUE)	$72,952
DRMP		N/A	N/A	$-
Horrocks.	Other (Alternative Delivery)	H.004100	LADOTD I-10 CMAR	$133,506.59

NTBA SURVEY. DESIGN. BUILD. SUCCEED.	Survey	4400019338 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner)	$2,077.90
	Right-of-Way		Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner)	$74,892.60
	Survey	4400019337 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	$-
	Right-of-Way		Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	$66,284.50
	Survey	4400017067 LWI Task Order 3	Louisiana Watershed Initiative (LWI) Modeling Contract – Region 1 (Sub to Atkins)	$3,481.45
		4400019715 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 12 – Summer Bridges	$70,489.00
	Right-of-Way	4400025041	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program	$26,297.50
	Survey	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	$-
	Other (SUE)	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	$145,000

Ardaman & Associates, Inc.	Geotech	H.004273	I-49 Connector, Lafayette	$497,533
		H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	$161,498
		H.004100	I-10: CMAR 30% Segment 1 Design	$51,017
		H.013897	I-10 / I-12 College Drive Flyover	$221,495
		H.004100.5-2	I-10: LA 415 to Essen Lane on I-10 & I-12	$10,652
		H.04435	I-12 to Bush LA 3241 (LA36-LA 435) Construction Phase	$47,956
		H.009266	I-10 (LA 73 to LA 30) Route I-10 Ascension Parish	$59,148
		H.002244.5	Boudreaux Canal Bridge (LA 56)	$160,589
		H.013284	MRB GBR LA 1 to LA 30 Connector	$413,477
		H.004647.6	I-20 Mississippi River Bridge at Vicksburg	$61,969
		H.015337, H.015452-63, H.015489-92, H.015341	Rural Bridge Replacement	$468,930
		H.012842.5	LA 124 Ext. Near Larto Lake	$61,539
		H.014265.5	N River Road Irving Branch	$20,447
		H.012533.5	LA 1252 Bayou Pt Brule Bridge	$36,674

ADAPTIVE MANAGEMENT AND ENGINEERING	Geotech	N/A	N/A	$-

VECTURA CONSULTING SERVICES, LLC	Traffic	4400017293 H.010616	I-20: LA 544 Overpass Replacement	$74,429
		4400005484 H.005168.2	New Orleans Rail Gateway Avondale EA	$92,995
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
		4400021519 H.012030.5	KCS RR Overpasses HBI	$572
		4400023075 H.013522	S. Lewis Street Widening	$7,499
		4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	$22,388
	CE&I/OV	4400020018 H.007160	EBR Computerized Traffic Signal, Ph VB	$33,910
	ITS	4400016364 H.015136.4	Northshore Regional ITS Architecture Update	$11,421
		4400017922 H.012845.1	C/AV Team and Working Group Support	$13,949
		44000020058 H.011507.1	Monroe Phase 3 SEA	$29,217

20. CERTIFICATIONS/LICENSES:

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Alex Farr
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

11/10/2023 to 11/10/2027
Training Valid Through

Baton Rouge, LA
Location

Vice President of Education and Technical Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Robert J Lear Jr.
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/30/2021 to 6/30/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joshua Renard
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/30/2021 to 6/30/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brin Ferlito
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Laurence Lambert
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Reece Rodrigue
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

3/10/2023 to 3/10/2027
Training Valid Through

Vice President of Education and Technical Services

New Orleans, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kristen Farrington
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/5/2021 to 4/5/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Patrick Staiano
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Venu Tammineni
has attended
Louisiana Traffic Control Technician
Training Course

9/5/2023 to 9/5/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Gregory Mattson II
has attended
Louisiana Traffic Control Technician
Training Course

9/5/2023 to 9/5/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ryan Williamson
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

9/8/2023 to 9/8/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Casey Floyd
has attended
Louisiana Traffic Control Supervisor
Training Course

9/6/2023 to 9/6/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Megan Bourgeois
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

8/7/2020 to 8/7/2024
Date

Baton Rouge, LA
Location

Vice President of Education and Technical Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jarmon King
has attended
Louisiana Traffic Control Supervisor
Training Course

11/8/2023 to 11/8/2027
Training Valid Through

Baton Rouge, LA
Location

Vice President of Education and Technical Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Robert Jewell
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

9/25/2020 to 9/25/2024
Date

Baton Rouge, LA
Location

Vice President of Member Services

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jace Ricard
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

3/12/2021 to 3/12/2025
Training Valid Through

Baton Rouge, LA
Location

Vice President of Education and Technical Services

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

Alex Farr

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Alex Farr

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Alex Farr

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT


ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

Sheelagh Ferlito

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/9/2023 — ATSSA (*Instructor Name*)

Exp. Date 5/8/2027 — Donna M. Clark (*Instructor Signature*)

State Issued LA

A1000126216 — Verify at Flagger.com


ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

GREGORY MATTSON

has satisfied the requirements to be designated as a

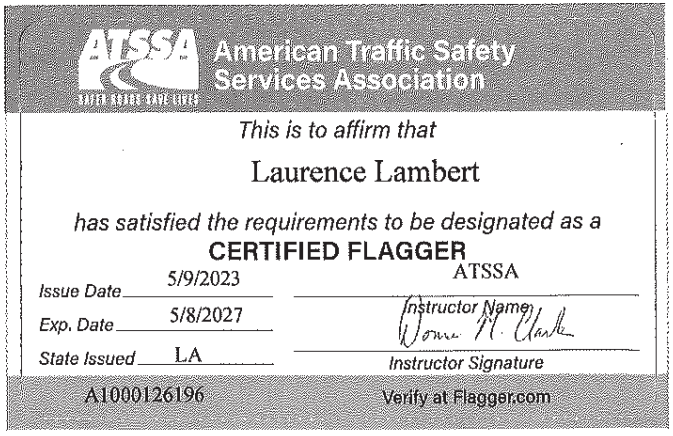
CERTIFIED FLAGGER

Issue Date 1/3/2024 — Debbie Purcella (*Instructor Name*)

Exp. Date 1/3/2028 — Debbie Purcella (*Instructor Signature*)

State Issued LA

V0000288035


ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

Laurence Lambert

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/9/2023 — ATSSA (*Instructor Name*)

Exp. Date 5/8/2027 — Donna M. Clark (*Instructor Signature*)

State Issued LA

A1000126196 — Verify at Flagger.com


ATSSA
SAFER ROADS SAVE LIVES

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

Kristen Farrington

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Expiration Date 7/5/2025 — LA (*State Issued in*)

Instructor Signature

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

American Traffic Safety Services Association

ATSSA
SAFER ROADS SAVE LIVES

This is to affirm that
Jace Ricard
Has satisfied the requirements to be designated as a
Registered Flagger

Expiration Date: 3/31/2025 *State Issued In:* NATIONAL

Instructor Signature

Verification Copy Only. Verification available by calling 1-877-6424637 or at http://www.flagger.com

Certificate of Training

this certifies that

Jace Ricard

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training Course

Awarded on this **1st** *day of* **April 2021**

Certificate of Training

this certifies that

Reece Rodrigue

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training Course

Awarded on this **24th** *day of* **September 2020**

Certificate of Training

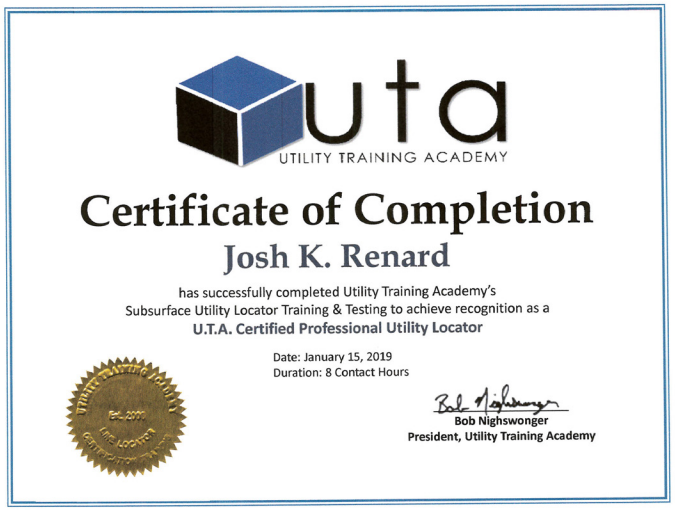
this certifies that

Megan Bourgeois

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training

Awarded on this **8th** *day of* **August 2020**



uta
UTILITY TRAINING ACADEMY

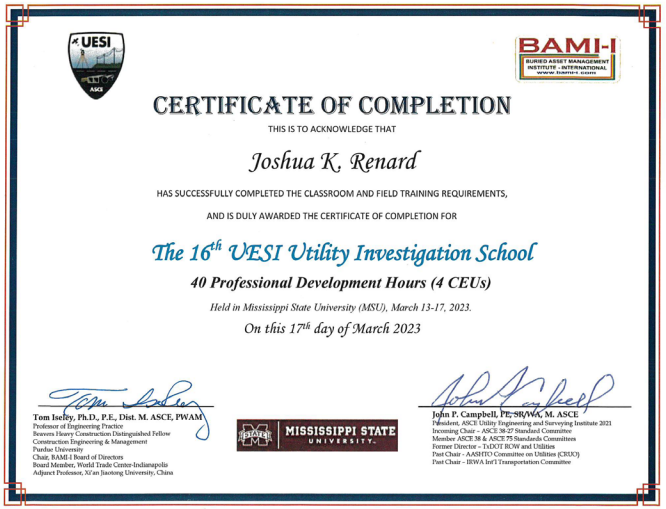
Certificate of Completion

Josh K. Renard

has successfully completed Utility Training Academy's
Subsurface Utility Locator Training & Testing to achieve recognition as a
U.T.A. Certified Professional Utility Locator

Date: January 15, 2019
Duration: 8 Contact Hours

Bob Nighswonger
President, Utility Training Academy



UESI

BAMI-I
BURIED ASSET MANAGEMENT INSTITUTE - INTERNATIONAL

CERTIFICATE OF COMPLETION

THIS IS TO ACKNOWLEDGE THAT

Joshua K, Renard

HAS SUCCESSFULLY COMPLETED THE CLASSROOM AND FIELD TRAINING REQUIREMENTS,

AND IS DULY AWARDED THE CERTIFICATE OF COMPLETION FOR

The 16th UESI Utility Investigation School

40 Professional Development Hours (4 CEUs)

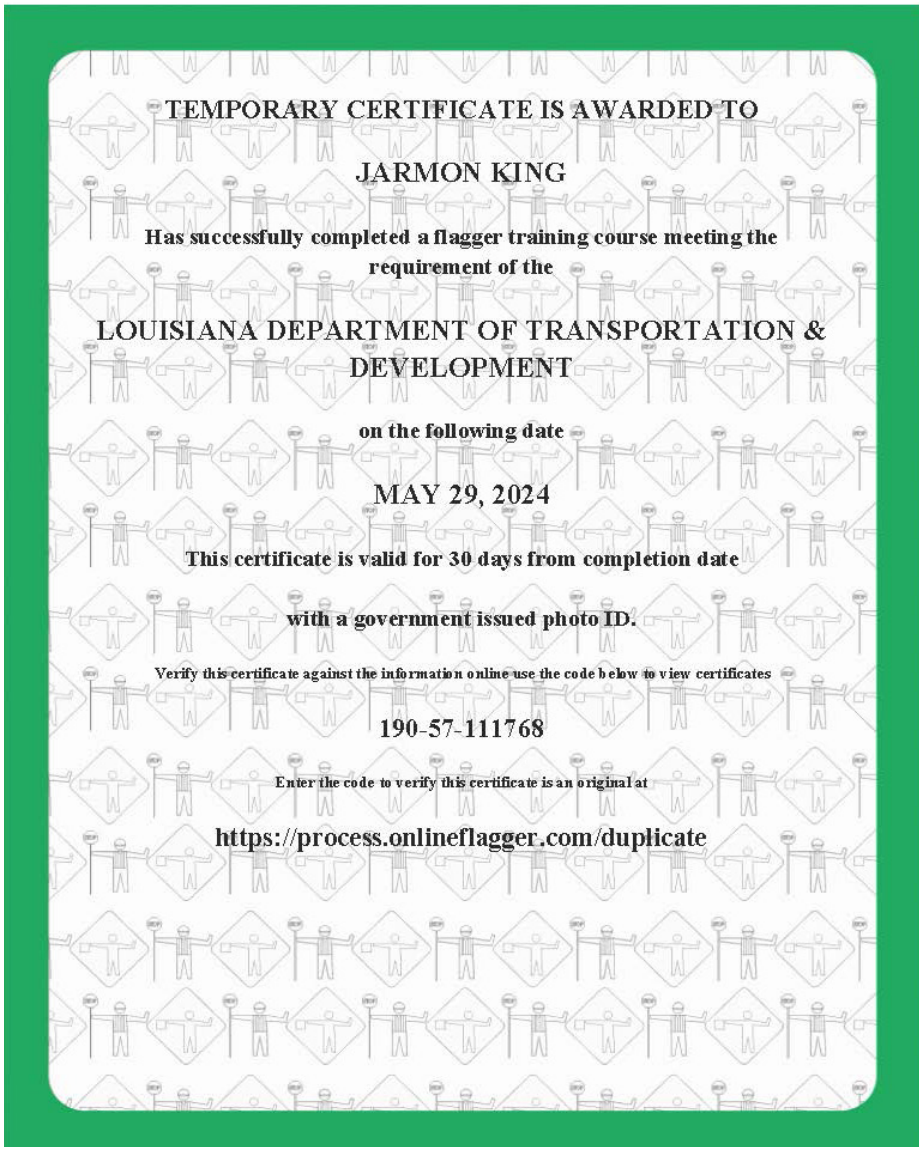
Held in Mississippi State University (MSU), March 13-17, 2023.

On this 17th day of March 2023

Tom Iseley, Ph.D., P.E., Dist. M. ASCE, PWAM
Professor of Engineering Practice
Reuvers Heavy Construction Distinguished Fellow
Construction Engineering & Management
Purdue University
Chair, BAMI-I Board of Directors
Board Member, World Trade Center-Indianapolis
Adjunct Professor, Xi'an Jiaotong University, China

MISSISSIPPI STATE UNIVERSITY

John P. Campbell, PE, SR/WA, M. ASCE
President, ASCE Utility Engineering and Surveying Institute 2021
Incoming Chair – ASCE 38-27 Standard Committee
Member ASCE 38 & ASCE 75 Standards Committees
Former Director - TxDOT ROW and Utilities
Past Chair - AASHTO Committee on Utilities (CRUO)
Past Chair - IRWA Int'l Transportation Committee



TEMPORARY CERTIFICATE IS AWARDED TO

JARMON KING

Has successfully completed a flagger training course meeting the requirement of the

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

on the following date

MAY 29, 2024

This certificate is valid for 30 days from completion date

with a government issued photo ID.

Verify this certificate against the information online use the code below to view certificates

190-57-111768

Enter the code to verify this certificate is an original at

https://process.onlineflagger.com/duplicate

RTA DOTD

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Vectura Consulting Services, LLC

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

NC488490, NC541330, NC541340

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

Certificate Eligibility: June 2023 to June 2024

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

RTA DOTD

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Adaptive Management & Engineering, LLC

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

NC541330, NC541380

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

Certificate Eligibility: February 2024 to February 2025

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

21. QA/QC PLAN:

If the advertisement requires submission of QA/QC plan, include it here. Otherwise, leave this section blank.

22. SUB-CONSULTANT INFORMATION:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of contact and Email Address	Phone Number
DRMP, Inc.	941 Lake Baldwin Lane Orlando, FL 32814	Glenn J. Lusink, PSM | President glusink@drmp.com	407.896.0594
Horrocks LLC (formerly Horrocks Engineers, Inc.)	2162 West Grove Parkway, Suite 100 Pleasant Grove, UT 84062	Matt Horrocks | Chief Operations Officer matth@horrocks.com	801.763.5513
NTB Associates, Inc.	525 Louisiana Avenue Shreveport, LA 71101	Paul Rossini, PLS, LS, PS | Principal prossini@ntbainc.com	318.226.9199
Ardaman & Associates, Inc.	8008 South Orange Avenue Orlando, FL 32809	Robert Jewell | Branch Manager rjewell@ardaman.com	225.752.4790
Adaptive Management & Engineering, LLC	11429 Pennywood Avenue Baton Rouge, LA 70817	Venu Tammineni | Principal venut@amesouth.com	225.424.7869
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A Baton Rouge, LA 70809	Sheelagh Brin Ferlito, PE | Partner bferlito@vecturacs.com	225.223.6685

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.

WAGGONER

FORMERLY SIGMA CONSULTING GROUP