CRESCENT
ENGINEERING & MAPPING LLC

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

CONTRACT FOR OFF-SYSTEM HIGHWAY BRIDGE PROGRAM | LITTLE CALIFORNIA RD OVER DRAINAGE CANAL

Contract No. 4400030641

State Project Number H.015965.5

April 8, 2025

SECTION
01–13

Bayou Gardens Blvd. over St. Louis Bayou
Houma, LA
Engineer of Record: Dennis Hymel, Jr., PE

DOTD FORM: 24-102 (Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	**CONTRACT FOR OFF-SYSTEM HIGHWAY BRIDGE PROGRAM** **LITTLE CALIFORNIA RD OVER DRAINAGE CANAL**
2. Contract number(s) as shown in the advertisement	4400030641
3. State Project Number(s), if shown in the advertisement	H.015965.5
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	Crescent Engineering & Mapping, LLC
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	Engineering: EF-0007140 | Surveying: VF-0000871
6. Prime consultant mailing address	PO Box 370, Vacherie, LA 70090
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1815 LA 18, Vacherie, LA 70090
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Dennis M. Hymel, Jr., PE, President/Manager 225.329.1742 | Dennis.Hymel@crescentengla.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Dennis M. Hymel, Jr., PE, President/Manager 225.329.1742 | Dennis.Hymel@crescentengla.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In additon, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.	Signature (shall be the same person as #9):  Date: April 8, 2025
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): Firm(s)' %:

12. Discipline Table:

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

Evaluation Discipline(s)	% of Overall Contract	Crescent	ELOS	Each Discipline must total 100%
Survey	**24%**	**100%**		**100%**
Bridge	**68%**	**100%**		**100%**
Environmental	**8%**		**100%**	**100%**

Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.

Percent of Contract	**100%**	**92%**	**8%**	

*The disciplines are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

If sub-consultants are used, the prime consultant must perform greater than 50% of the work for the overall contract.

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)
Crescent Engineering and Mapping, LLC	Supervisor - Engineer	1	2
	Engineer	1	4
	Engineer Intern	1	1
	Senior Technician	2	2
	Surveyor	1	1
	Party Chief	1	2
	Instrument Man	1	1
	Administrative	0	1
ELOS Environmental, LLC	Biologist/Wetlands	1	5
	Environmental Professional	1	2
	Environmental Manager	1	2
	GIS Analyst	1	3
	Archaeologist	0	2
	Technician	1	5

SECTION 14–16

S.P. No. H.011806
Gracie Lane Bridge over Bayou Sorrel
Bayou Sorrel, LA
Engineer of Record: Dennis Hymel, Jr., PE

14. Organizational Chart:

LEGEND

- ▲ ATTSA Certified
- \+ Part-Time
- ● Crescent Engineering and Mapping, LLC
- ● ELOS Environmental, LLC

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

CRESCENT ENGINEERING & MAPPING LLC

PROJECT MANAGER
- ● **Dennis M. Hymel, Jr., PE**▲

QA/QC MANAGER
- ● **James P. Ledet, PE, F. ACEC** +

ELOS environmental

ROADWAY/BRIDGE DESIGN
- ● Paul Olivier, PE▲
- ● Abbey Falcon, PE▲
- ● Tyler Amedee, PE▲
- ● Megan Miller, PE
- ● Miles Loker, EI▲
- ● Luke Bourg▲

SURVEY
- ● Matthew Ledet, PLS▲
- ● Kelly Jones
- ● Dakotah "Kody" Holley▲
- ● Joseph Maurin▲

ENVIRONMENTAL
- ● Lucas Watkins
- ● Brian Fortson
- ● Basile Dardar▲
- ● Cory Ricks
- ● Hunter Perrilloux
- ● Christopher Wilson

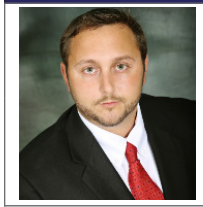
15. Minimum Personnel Requirements:

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

MPR No.	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	**License / certification expiration date**
1	Dennis Hymel Jr., PE	CRESCENT ENGINEERING & MAPPING LLC	PE #38172 - Civil	LA	09/30/2025
2	Dennis Hymel Jr., PE		PE #38172 - Civil	LA	09/30/2025
3	Dennis Hymel Jr., PE		PE #38172 - Civil	LA	09/30/2025
	Paul I. Olivier, PE		PE #39967 - Civil	LA	03/31/2026
4	Matthew J. Ledet, PLS		LA Registered Surveyor PLS - 5104	LA	09/30/2026
5	Basile Dardar	ELOS environmental	5 years' wetland delineation		
	Brian Fortson		5 years' wetland delineation		
	Cory Ricks		5 years' wetland delineation		
	Hunter Perrilloux		5 years' wetland delineation		

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**



Dennis M. Hymel, Jr., PE
President/Manager

Years of relevant experience with this employer	3
Years of relevant experience with other employer(s)	17

Degree(s) / Years / Specialization			Bachelor of Science/2009/Civil Engineering
Active registration number / state / expiration date			38172 / LA / 09-30-2025
Year registered	2013	**Discipline**	PE/Civil Engineering
Contract role(s) / brief description of responsibilities			Project Manager - Dennis will serve as the Project Manager, oversee road and bridge design and plan production. His 20 years of experience meets **MPRs #1-#3.**

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/23 – 05/24	**S.P. No. H.015025, McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD)** – Project Manager. Responsible for the coordination and production of topographic surveys and all roadway and bridge design elements including H&V geometrics, drainage design, hydraulics and scour analysis, foundation layout, non-standard curved slab span design, curved approach slabs, guardrail design, GP&E, low profile runaround, inroads modeling, bridge TS&L, and oversight of road and bridge plan production for the **4-span Off-System Bridge replacement** in St. Helena Parish. **Project was completed under an accelerated design schedule**.
05/22 – Ongoing	**EN22-0181, Rousseau Rd. Bridge over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government) –** Project Manager/ Supervising Engineer. Responsible for the coordination and oversight of topographic surveys, ROW Mapping, roadway and bridge design elements including H&V geometrics, channel hydraulics, roadside drainage, bridge design elements including non-standard slab spans and bents to accommodate phased construction, LRFR of replacement bridge and rehabilitated structure, and served as the EOR for the bridge rehabilitation design using steel framed helper bents. Responsible for environmental assistance and subconsultant coordination for the replacement of the existing 4-span bridge with a **7-span concrete, slab span Off System Bridge** near Covington, LA.
03/23 – 06/24	**S.P. No. H.014993 Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD)** - Project Manager. Responsible for the coordination and production of topographic surveys and all roadway and bridge design elements including H&V geometrics, roadside drainage design, hydraulics and scour analysis, foundation layout, end bent and approach slab details to accommodate tapered barrier railing, guardrail design, GP&E, bridge TS&L, and oversight of road and bridge plan production for the **4-span Off-System Bridge replacement** near Slaughter, LA.
03/23 – Ongoing	**S.P. No. H.014984 Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD)** - Project Manager. Responsible for the coordination and production of topographic surveys and all roadway and bridge design elements including H&V geometrics, roadside drainage design, hydraulics and scour analysis, foundation layout, non-standard curved slab span design, curved approach slabs, guardrail design, GP&E, bridge TS&L, and oversight of road and bridge plan production for the **5-span Off-System Bridge replacement** near Pineville, LA.
03/22 – Ongoing	**S.P. No.s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Project Manager/ Engineer of Record. Responsible for project coordination, design and plan production, and performed QC reviews of topographic surveys. Served as the EOR for hydraulic analysis, EOR for roadway and urban and rural bridge design elements including H&V geometry, roadside drainage, QA of plan production, LRFR for RCB structures for the **replacement of four (4) Off-System Bridge sites** in Tangipahoa with RC slab spans and RCB's.

16. Staff Experience:

05/20 – 08/21 *(previous employer)*	**Contract 44-17598 - Rural Bridge Replacement Initiative Phase I (47 bridge structures), Districts 04, 05, 08, 58 (LADOTD) -** Project Manager/Supervising Engineer. Performed QC review of topographic surveys and R/W Maps and served as the supervising engineer for roadway, geometrics, and bridge design elements including hydraulics analysis, scour, horizontal/vertical alignments, Level 1/2 TMP's, bridge design & LRFR (non-standard structures) including RC Slab Span and LG-25 girders, coordination and oversight of geotechnical and environmental services, SOV's, CE document preparation and permit applications for the spot replacement of **47 bridge structures in northern Louisiana containing nine (9) Off-System Bridges**.
03/18 – 04/21 *(previous employer)*	**S.P. No. H.013080, McLemore Road/Bee Bayou, Richland Parish, LA (LADOTD)** - Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, SOV's, hydraulics, foundation layout, roadway and bridge plan production for the **6-span Off-System Bridge replacement** near Rayville, LA.
05/15 – 03/18 *(previous employer)*	**S.P. No. H.011788, Oak St. Bridge/Poydras Bayou, West Baton Rouge Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for topographic surveys, roadway and bridge design, special LRFD bent and span design to accommodate hydraulic conditions, 25' slab spans, LRFR, hydraulic analyses, steel bulkhead design and detailing, preliminary and final plans for the **3-span Off-System Bridge replacement.**
03/15 – 08/20 *(previous employer)*	**S.P. No. H.010867, Jude & Placide Road Bridges, Vermilion Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, hydraulics, SOV's, foundation layout, special guard rails, special bridge spans and bents (25'), LRFR, roadway and bridge plan production for the replacement of **two (2) Off-System Bridges,** 1 @ 50'; 1 @ 60' near Erath and Maurice, LA.
03/13 – 03/15 *(previous employer)*	**S.P. No. H.010598, Derrick Road Bridge, Iberville Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, hydraulics, SOV's, foundation layout, special guard rails, special bridge bents, LRFR, roadway and bridge plan production for the **3-span Off-System Bridge replacement** project.
06/15 – 04/18 *(previous employer)*	**S.P. No. H.011806, Gracie Lane Bridge, Iberville Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, hydraulics, foundation layout, SOV's, guardrail layout, roadway and bridge plan production for the **7-span Off-System Bridge replacement** project.
03/13 – 03/18 *(previous employer)*	**S.P. No. H.011524, Katie Ln. & Leo Morrow Rd. Bridges, Avoyelles Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, SOV's, hydraulics, foundation layout, special bridge bents & spans, LRFR, roadway and bridge plan production for the replacement of **two (2) Off-System Bridges** near Plaucheville, LA.
04/13 – 03/16 *(previous employer)*	**S.P. No. H.010559, Bayou Mercier Road/Berard Canal Bayou, St. Martin Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, SOV's, hydraulics, foundation layout, Quad-Beam Superstructure and Substructure, Bearing design, LRFR, roadway and bridge plan production for the 200' long, **5-span Quad Beam Off-System Bridge replacement project** near Catahoula, LA.
03/15 – 01/17 *(previous employer)*	**S.P. No. H.011767, Bayou Crab Road Bridge, Assumption Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway and bridge design including geometrics, bridge TS&L, hydraulics, foundation layout, special bridge spans (25'), LRFR, roadway and bridge plan production for the **3-span Off-System Bridge replacement** project.
02/14 – 07/21 *(previous employer)*	**S.P. No. H.010724, Pecan Island Road Bridge over The Chenal, Point Coupee Parish, LA (LADOTD)** – Supervising Engineer. Responsible for oversight and QC reviews of all roadway design and plan preparation, vertical and horizontal geometry, drainage and geometrics, hydraulics design; performed QC reviews of bridge design and bridge plan production for **150' long Off-System Bridge** using special detail 25' precast deck and CIP substructure, design of steel pipe piles, anchored steel bulkhead.
01/12 – 08/15 *(previous employer)*	**S.P. No. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Project Engineer. Responsible for roadway and bridge design elements including H&V alignments, bridge TS&L and non-standard bridge design elements to accommodate a 23' long span and water line attached to the bent caps for the **183' long Off-System Bridge** over Bayou Lafourche, in Thibodaux, LA.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**

Paul I. Olivier, PE
Engineering Manager

Years of relevant experience with this employer	2
Years of relevant experience with other employer(s)	13

Degree(s) / Years / Specialization			Bachelor of Science/2010/Civil Engineering
Active registration number / state / expiration date			39967 / LA / 03-31-2026
Year registered	2015	**Discipline**	PE/Civil Engineering
Contract role(s) / brief description of responsibilities			Supervising Engineer – Paul will supervise road, hydraulic and bridge design as well as preliminary and final plan preparation. Paul's experience meets **MPR #3**.

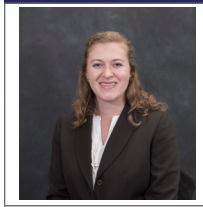
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/23 – 05/24	**S.P. No. H.015025 McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD) -** Supervising Engineer. Responsible for the oversight of all roadway and bridge design elements including H&V geometrics, drainage design, hydraulics and scour analysis, foundation layout, non-standard curved slab span design, approach slabs, guardrail design, GP&E, low profile runaround, inroads modeling, bridge TS&L, and oversight of road and bridge plan production for the **4-span Off-System Bridge replacement** in St. Helena Parish. **Project was completed under an accelerated design schedule.**
03/23 – Ongoing	**S.P. No.s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Supervising Engineer. Responsible for the oversight of all roadway H&V alignments, roadway and bridge hydraulic analysis, structure selections, retaining wall design, and plan preparation. Also responsible for coordination and oversight of geotechnical and environmental services for the **replacement of four (4) Off-System Bridge replacements** with RC Slab Spans and RCB's throughout Tangipahoa Parish on E. Lewiston Rd., Easley Rd. and Old Genessee Rd. (2 sites).
02/23 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** – Engineer of Record. Responsible for all roadway design elements including H&V geometrics, roadside and channel hydraulics, roadway/bridge construction phasing, superelevation design, pavement design, inroads modeling, quantity calculations and cost estimating for the replacement of the existing 4-span bridge with a **7-span concrete, slab span Off System Bridge** near Covington, LA.
03/23 – 06/24	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD)** – Supervising Engineer/EOR. Responsible for the design and plan production of all project elements including H&V alignments, channel hydraulics and scour analysis, roadside drainage, guardrail design, inroads modeling, and quantity calculations for the **4-span Off-System Bridge replacement** near Slaughter, LA.
03/23 – Ongoing	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Supervising Engineer/Engineer of Record. Responsible for the design and plan production of all project elements including H&V alignments, channel hydraulics and scour analysis, roadside drainage, superelevation design, guardrail design, striping/signing, inroads modeling and quantity calculations for the **5-span Off-System Bridge replacement** near Pineville, LA.
03/23 – Ongoing	**S.P. No. H.014980, Chinaberry Drive over Unnamed Coulee, Acadia Parish, LA (LADOTD) -** Supervising Engineer/EOR. Responsible for all roadway and bridge design elements and plan production including H&V alignments, channel hydraulics and scour analysis, roadside drainage, guardrail design, inroads modeling and quantity calculations for the **3-span Off-System Bridge replacement** in Acadia Parish.

16. Staff Experience:

06/21 – 01/23 *(previous employer)*	**Contract 44-19336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04, 05 (LADOTD) –** Project Manager/ Supervising Engineer. Performed QC review of topographic surveys and ROW Maps and served as the supervising engineer for all roadway and bridge design elements including roadway geometrics, channel hydraulics analysis, scour, horizontal/vertical alignments, Level 1&2 TMP, bridge TS&L, and superstructure/substructure design and detailing. Also provided coordination and oversight of geotechnical services and environmental permitting, SOV's, CE document preparation and permitting for the **replacement of forty (40) bridge structures in northern Louisiana containing twelve (12) State Project Numbers**.
02/14 – 07/21 *(previous employer)*	**S.P. No. H.010724, Pecan Island Road Bridge over The Chenal, Point Coupee Parish, LA (LADOTD)** – Engineer of Record. Responsible for all roadway design elements and plan preparation, H&V alignments, roadside drainage, roadway geometrics, hydraulic analysis and design, and oversaw bridge design and plan production for **single lane, 150' long RC slab span Off System Bridge** using special detail precast deck and CIP substructure, design of steel pipe piles and steel retaining walls.
12/18 – 09/22 *(previous employer)*	**S.P. No. H.013144, Pine Bluff Road/Drain to Cypress Creek; Tack Allen Road/Drain to Cypress Creek, Ouachita Parish, LA (LADOTD)** – Supervising Engineer/Engineer of Record. Responsible for review of topographic surveys, and all roadway and bridge design elements and plan production for the **replacement of two (2) Off System Bridge sites** in Ouachita Parish including one RC slab span bridge and on RC Box Culvert.
03/15 – 07/18 *(previous employer)*	**S.P. No. H.011767, Bayou Crab Road Bridge/Norman Canal Assumption Parish, LA (LADOTD)** – Lead Engineer. Assisted with topographic survey reviews, and led bridge and roadway design including H&V alignments, hydraulic analysis, steel bulkhead design, design of special bridge elements, quantity calculations and inroads modeling. Lead preliminary and final plan production for the **replacement of a 3-span Off-System Bridge** in Assumption Parish.
12/23 – Ongoing	**S.P. No. H.015334, 9th Street over St. Louis Canal, Terrebonne Parish, LA (LADOTD) –** Project Manager/Engineer of Record. Responsible for review of topographic surveys and R/W Maps and supervision of all roadway and bridge design elements including H&V alignments, hydraulic analysis, roadside drainage, quantity calculations and preliminary plan preparation for the **4-span RC slab span Off System Bridge** in Houma, LA.
03/16 – 10/18 *(previous employer)*	**S.P. No. H.011540 Babin Road Bridge/Bayou Narcisse, Ascension Parish, LA (LADOTD)** - Engineer of Record. Responsible for topographic surveys, hydraulic analysis, roadway and bridge design, and oversaw preparation of preliminary and final plans including special bridge elements for the **80' long Off-System Bridge** in Gonzales, LA.
09/15 – 09/17 *(previous employer)*	**S.P. No. H.011788, Oak St. Bridge/Poydras Bayou, West Baton Rouge Parish, LA (LADOTD)** - Project Engineer. Assisted with roadway design elements including horizontal and vertical alignments, roadside drainage, hydraulic analysis, and inroads modeling and served as the roadway plan production lead for the **replacement of 3-span Off-System Bridge** near Erwinville, LA.
06/15 – 03/18 *(previous employer)*	**S.P. No. H.011524, Katie Lane & Leo Morrow Road Bridges, Avoyelles Parish, LA (LADOTD)** – Project Engineer. Reviewed topographic surveys and assisted with roadway design elements including H&V alignments, hydraulic analysis, quantity calculations and inroads modeling. Also served as plan production lead for **two (2) Off-System Bridge replacements** in Avoyelles Parish.
04/14 – 01/18 *(previous employer)*	**S.P. No. H.010867, Jude & Placide Road Bridges, Vermilion Parish, LA (LADOTD) –** Project Engineer. Assisted with topographic survey reviews, performed channel hydraulic analysis, and assisted with roadway and bridge design elements including special bridge spans for the **replacement of two (2) Off-System Bridges** in Vermilion Parish.
09/13 – 03/16 *(previous employer)*	**S.P. No. H.010559, Bayou Mercier Road/Berard Canal Bayou, St. Martin Parish, LA (LADOTD)** – Project Engineer. Reviewed topographic field survey data, assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing **timber structure with a 5-span, 200' long quad-beam concrete structure for the Off-System Bridge Program**.
01/12 – 08/15 *(previous employer)*	**S.P. No. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Engineering Support. Performed topographic field surveys and assisted with roadway and bridge design elements including H&V alignments, bridge TS&L, striping/signing, guardrail design and non-standard bridge design elements to accommodate a 23' long span and water line attached to the bent caps for the **183' long Off-System Bridge** over Bayou Lafourche, in Thibodaux, LA.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**



Abbey F. Falcon, PE
Project Engineer

Years of relevant experience with this employer	2.5
Years of relevant experience with other employer(s)	5

Degree(s) / Years / Specialization			Bachelor of Science/2017/Civil Engineering
Active registration number / state / expiration date			46035 / LA / 03-31-2026
Year registered	2021	**Discipline**	PE/Civil Engineering
Contract role(s) / brief description of responsibilities			Road Design Lead Engineer – Abbey will lead the road design, perform hydraulics analysis and assist with plan preparation and Inroads modeling.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/23 – 05/24	**S.P. H.015025 McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD) -** Roadway Engineer of Record. Responsible for the review of topographic surveys and design of all roadway elements including H&V geometrics, drainage design, channel hydraulics, scour analysis, quantity calculations, and inroads modeling. Also responsible for the development of preliminary and final roadway plans. **Project was completed under an accelerated design schedule.**
04/23 – 05/24	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD) -** Project Engineer. Responsible for the review of topographic surveys and assisted with the design effort of all roadway elements including H&V alignments, roadside drainage, channel hydraulics, scour analysis, guardrail design, quantity calculations and inroads modeling. Also assisted with the preparation and review of preliminary and final plans for the **4-span, Off-System Bridge replacement** near Slaughter, LA.
04/23 – Ongoing	**S.P. No. H.014984 Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD)** - Project Engineer. Responsible for the review of topographic surveys and assisted with the design effort of all roadway elements including H&V alignments, channel hydraulics, scour analysis, superelevation design, guardrail design, quantity calculations and inroads modeling. Also assisted with the preparation and review of preliminary and final plans for the **5-span, Off-System Bridge replacement** near Pineville, LA.
03/23 – Ongoing	**S.P. No. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD) –** Engineer of Record. Responsible for the review of topographic surveys and all project design elements including hydraulics analysis, H&V alignments, storm drain design, Inroads modeling, structure selection, and complete streets accommodations. Also responsible for the development of preliminary plans associated with the replacement of an existing 3-span bridge with a reinforced concrete box **Off-System Bridge structure** near Baker, LA.
06/22 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** – Project Engineer. Led several roadway design elements including H&V alignments, mainline and intersection geometrics, construction phasing, storm drain design, hydraulic analysis, guardrail design, superelevation design and inroads modeling associated with the replacement of the existing 4-span bridge with a **7-span concrete, slab span Off-System Bridge** near Covington, LA.
06/22 – Ongoing	**S.P. No.'s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Lead Project Engineer. Led design and plan production involved with the **spot replacement of four (4) Off-System Bridge structures** located along Old Genessee Rd. (2 sites), Easley Rd. and Lewiston Rd. located throughout Tangipahoa Parish. Responsible for design elements including H&V geometrics, roadside and structure hydraulics, construction phasing, detour plans, inroads modeling, quantity calculations and cost estimates.

16. Staff Experience:

04/20 – 04/22 *(previous employer)*	**S.P. No. H.013953, McManus Road Bridge/Cypress Creek, Richland Parish, LA (LADOTD) –** Engineer of Record. Responsible for the review of topographic surveys and all roadway and bridge design elements including H&V alignments, hydraulics & scour analysis, guardrail design, quantity calculations and inroads modeling. Also responsible for the preparation of roadway and bridge plans, design report forms, and design criteria for the **eight (8) span Off-System Bridge replacement**.
06/18 – 04/21 *(previous employer)*	**S.P. No. H.013080, McLemore Road/Bee Bayou, Richland Parish, LA (LADOTD) –** Project Engineer. Assisted with roadway and bridge design including Inroads modeling, geometrics, bridge TS&L, hydraulics, foundation layout, and bridge plan production for the **6-span Off-System Bridge replacement** near Rayville, LA.
04/20 – 02/22 *(previous employer)*	**S.P. No. H.013954, Pleasant Ridge/Rabbit Branch, LaSalle Parish, LA (LADOTD)** – Engineer of Record. Responsible for all roadway and bridge design elements including H&V alignments, hydraulics & scour analysis, roadside drainage design, bridge TS&L, quantity calculations, inroads modeling and cost estimates. Also responsible for the preparation of Preliminary and Final Plans, design report forms, and design criteria for the **3-span Off-System Bridge replacement**.
04/20 – 05/22 *(previous employer)*	**S.P. No. H.013955, LA 507, 514, Local: Bayou and Cr BRs, Red River Parish, LA (LADOTD) –** Engineer of Record. Responsible for all roadway and bridge design elements including H&V alignments, hydraulics & scour analysis, roadside drainage design, bridge TS&L, quantity calculations, inroads modeling and cost estimates. Also responsible for the preparation of Preliminary and Final Plans, design report forms, and design criteria for the **replacement of five (5) LADOTD On-System Bridges and one (1) Off-System Bridge**.
04/20 – 04/22 *(previous employer)*	**S.P. No. H.013987, LA 521: Bridges Near Dykesville, Claiborne Parish, LA (LADOTD)** – Engineer of Record. Responsible for all roadway and bridge design elements including H&V alignments, hydraulics & scour analysis, roadside drainage design, bridge TS&L, quantity calculations, inroads modeling and cost estimates. Also responsible for the preparation of Preliminary and Final Plans, design report forms, and design criteria for the **replacement of three (3) LADOTD On-System Bridges**.
03/21 – 07/22 *(previous employer)*	**S.P. No. H.014233, LA 160: Cypress Bayou and Relief Bridges, Bossier Parish, LA (LADOTD)–** Lead Project Engineer. Responsible for topographic survey reviews and design elements including H&V alignments, hydraulics & scour analysis, and bridge TS&L. Also responsible for the preparation of Preliminary Plans and design criteria for the **replacement of two (2) LADOTD On-System Bridges**.
03/21 – 07/22 *(previous employer)*	**S.P. No. H.014231, LA 153: Topy Creek Relief & Drain Bridges, Bienville Parish, LA (LADOTD) –** Lead Project Engineer. Responsible for topographic survey reviews and design elements including H&V alignments, hydraulics & scour analysis, and bridge TS&L. Also responsible for the preparation of Preliminary Plans and design criteria for the **replacement of four (4) LADOTD On-System Bridges**.
03/21 – 07/22 *(previous employer)*	**S.P. No. H.014217, LA 537: Bridges Near Plain Dealing, Bossier Parish, LA (LADOTD)–** Lead Project Engineer. Responsible for topographic survey reviews and design elements including H&V alignments, hydraulics & scour analysis, and bridge TS&L. Also responsible for the preparation of Preliminary Plans and design criteria for the **replacement of three (3) LADOTD On-System Bridges**.
07/17 – 09/18 *(previous employer)*	**S.P. No. H.011540, Babin Road Bridge/Bayou Narcisse, Ascension Parish, LA (LADOTD) –** Engineering Support. Assisted with H&V geometrics, roadway drainage design, roadway and bridge plan production, Inroads modeling, quantity calculations for the **3-span Off-System Bridge** near Gonzales, LA.
12/18 – 07/19 *(previous employer)*	**S.P. No. H.013144 Pine Bluff Rd./Drain to Cypress Creek; Tack Allen Rd./Drain to Cypress Creek, Ouachita Parish, LA (LADOTD)** – Engineering Support. Assisted with roadway and bridge design including hydraulics, H&V geometry, assisted in preparation of roadway and bridge plan production for the replacement of **two (2) Off-System Bridge sites** in Ouachita Parish.
07/17 – 12/18 *(previous employer)*	**S.P. No. H.010724, Pecan Island Road Bridge over The Chenal, Point Coupee Parish, LA (LADOTD)** – Engineering Support. Assisted with roadway design and plan preparation, quantity calculations and summary sheets, assisted with bridge plan production and quantities for **150' long Off-System Bridge** using special detail 25' precast deck and CIP substructure, steel pipe piles, and anchored steel bulkhead.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**

Megan M. Miller, PE
Bridge Design Project Engineer

Years of relevant experience with this employer	1
Years of relevant experience with other employer(s)	13

Degree(s) / Years / Specialization			Bachelor of Science/2010/Civil Engineering
Active registration number / state / expiration date			39897 / LA / 09-30-2025
Year registered	2015	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities			Bridge Design Lead Engineer – Megan will lead the bridge design and assist with the preparation and review of bridge plans.

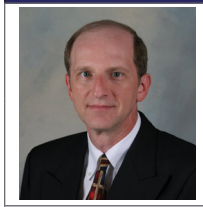
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
02/24 – 05/24	**S.P. No. H.015025, Mclin Road over Darling Creek, St. Helena Parish, LA (LADOTD)** – Bridge Engineer of Record. Responsible for the bridge design elements of a **4-span, 24' clear width, curved, concrete slab span bridge** utilizing STAAD and OpenBridge bridge design software programs. Reviewed bridge superstructure and substructure details and performed As-Designed LRFR utilizing AASHTOWare BrR 7.4 of the bridge replacement in St. Helena Parish as a part of the **Off-System Bridge** Replacement Program.
02/24 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish)** – Bridge Engineer of Record. Responsible for designing rehabilitation plans for the existing structure which includes structural steel helper bents and existing bridge load ratings. Led the design of a **30' wide by 140' long replacement structure** which includes implementation of split phase construction, As-Designed LRFR analysis and reports, span and bent design using STAAD, OpenBridge, AASHTOWARE BrR. Also responsible for overseeing plan production for bridge plans and details, as well as calculating all bridge quantities including concrete and steel.
07/24 – Ongoing	**S.P. No. H.014984 Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD)** - Bridge Engineer of Record. Responsible for the bridge design elements of a **5-span, 28' clear width, curved, concrete slab span bridge** utilizing STAAD and OpenBridge bridge design software programs. Reviewed bridge superstructure and substructure details and performed As-Designed LRFR utilizing AASHTOWare BrR 7.4 of the bridge replacement in Rapides Parish as a part of the **Off-System Bridge** Replacement Program.
03/24 – 06/24	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD) -** Bridge Engineer of Record. Responsible for non-standard bridge design elements including end bents and approach slabs associated with the inclusion of a concrete tapered barrier railing. Reviewed bridge substructure and approach slab details and performed As-Designed LRFR utilizing AASHTOWare BrR 7.4 for the **4-span, 28' clear width Off-System Bridge replacement** near Slaughter, LA.
04/24 – Ongoing	**S.P. No.'s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Bridge Project Engineer. Responsible for the As-Designed LRFR for three (3) reinforced concrete bridge replacements and 1 reinforced concrete box culvert in Tangipahoa Parish. Also responsible for the design and plan preparation of a steel sheet pile wall along E. Lewiston Rd. and provided QC reviews of bridge plans for all **three (3) Off-System Bridge** projects.

16. Staff Experience:

02/17 – 07/21 *(previous employer)*	**S.P. No. H.010724, Pecan Island Road Bridge over The Chenal, Pointe Coupee Parish, LA (LADOTD)** – Bridge Design Project Engineer. Responsible for bridge design of entire structure including CIP and Precast special 25' slab spans and bents founded on Steel Pipe Piles utilizing Bentley STAAD and LEAP CONSPAN, prepared bridge details and oversaw bridge plan production for Final Plans, performed As-Designed LRFR utilizing AASHTOware BrR 6.8 (Virtis) for the **150' long Off-System Bridge replacement** project in Pointe Coupee Parish for the off-system bridge replacement program.
05/20 – 01/24 *(previous employer)*	**Contract No's. 44-17598 & 44-19336 - Rural Bridge Replacement Initiative Phases I & II (87 bridge structures), Districts 04, 05, 08, 58 (LADOTD)** – Lead Bridge Engineer. Led the design of all non-standard bridge superstructure and substructure elements utilizing STAAD and OpenBridge design software programs as well as performed As-Designed LRFR for all non-standard structural elements. Oversaw plan preparation of superstructure and substructure details and provided QC plan reviews of preliminary and final plans for several of the replacement structures within Phases I & II of the Rural Bridge Replacement Initiative.
02/17 – 04/18 *(previous employer)*	**S.P. No. H.010557, Lajaunie Road/Lateral 1 Bayou St. Clair, Lafayette Parish, LA (LADOTD)** – Lead Bridge Design Engineer. Performed all bridge design tasks for the replacement of the existing bridge with a **3-span, curved, super elevated Quad Beam Off-System Bridge** structure using various programs for superstructure and substructure including LEAP CONSPAN and STAAD ProV8i, prepared foundation details, miscellaneous bridge details, designed bearings, prepared bridge plans and special provisions.
09/18 – 12/23 *(previous employer)*	**S.P. No. H.001344, US 190: LA 437 to US 190 (BUS) (Ph. 1), St. Tammany Parish, LA (LADOTD)** – Bridge Engineer of Record. Responsible for bridge design tasks including development of TS&L, typical sections, foundation plan, General Plan. Elevation, superstructure modeling using LEAP CONSPAN, and development of bridge plans for a **1400-foot-long, curved, superelevated bridge** over the Bouge Falaya River in Covington, LA using **LG-36 and LG-54 prestressed concrete girders**. Performed reviews of contractor bridge submittals and shop drawings.
02/17 – 08/19 *(previous employer)*	**S.P. No. H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD)** – Lead Bridge Design Engineer/Engineer of Record. Performed all bridge design tasks associated with the **widening of the I-12 bridges over the Tammany Trace Bike Path** utilizing AASHTO Type III Precast, Pre-stressed concrete girders with multiple, varying skewed spans in a vertical curve. Designed girders and deck using various programs including LEAP CONSPAN, STAAD, and BrR (Virtis). Performed substructure design using STAAD ProV8i and LEAP CONSPAN, designed bearing pads, framing and foundation plans. Assisted with bridge plan production including partial demolition and construction phasing plans for the interstate widening project. Also provided construction support in the form of contractor shop drawing reviews.
03/17 – 06/22 *(previous employer)*	**S.P. No. H.013116, LA 20 Widening (LA 307 to S. Vacherie), St. James and Lafourche Parishes, LA (LADOTD)** - Lead Bridge Design Engineer. Performed all bridge design tasks for the widening of LA 20 including **bridge replacement using split-phase construction** methods. Performed superstructure and substructure design using various programs including LEAP CONSPAN, STAAD ProV8i, prepared construction phasing details, foundation plans and assisted with bridge plan production.
02/18 – 10/19 *(previous employer)*	**West 11th Ave. Bridge/Mile Branch Creek, St. Tammany Parish, LA (City of Covington)** - Quality Control Engineer. Performed LRFR, bridge inspection and Quality Control reviews on bridge plans for the **replacement of a 5-span, 100' long, 24' clear width Off-System** reinforced concrete slab bridge and roadway approach reconstruction on W. 11th Avenue in Covington, LA. Bridge included special bents for precast and CIP deck options to accommodate utilities, tapered rails and subsurface drainage.
2010 – 2014 *(previous employer)*	**Bridge Inspection & Rating ID/IQ, Statewide (INDOT)** - Project Engineer. Performed all phases of multiple county bridge inspection contracts ranging from $100K to $1MM, including assisting in routine and special feature bridge inspection (including fracture critical), performed modeling and analysis of bridge structures for LRFR using BrR and SACS, prepared field documentation and sketches, inputting field data into INDOT's Bridge Inspection Application System (BIAS). Structure types included timber, reinforced concrete, pre-stressed concrete girders and steel plate girders.
2010 – 2014 *(previous employer)*	**US 31 Bridges, South Bend, IN (INDOT)** - Project Engineer. Performed bridge design including modeling and analysis, design computations, quantity calculations, cost estimates and developed final plans for the design of the US 31 bridges including AASHTO Precast, Pre-stressed concrete girders, reinforced concrete slab spans, post tensioned segmental concrete girders and steel plate girders.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**



James P. Ledet, PE, F. ACEC
Quality Control Engineer

CRESCENT ENGINEERING & MAPPING LLC

Years of relevant experience with this employer	2
Years of relevant experience with other employer(s)	44

Degree(s) / Years / Specialization			Bachelor of Science/1982/Civil Engineering
Active registration number / state / expiration date			22428 / LA / 03-31-2026
Year registered	1986	**Discipline**	PE/Civil Engineering
Contract role(s) / brief description of responsibilities			Bridge Quality Control Engineer – Jimmy will serve as the bridge Quality Control Manager and review design elements, preliminary plans and final plans.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/23 – 05/24	**S.P. No. H.015025, Mclin Road over Darling Creek, St. Helena Parish, LA (LADOTD) –** Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, scour calculations, H&V alignments, low profile runaround geometrics and drainage design, quantity calculations and roadway and bridge plan reviews for the **4-span, 24' clear width, curved, concrete slab span Off-System Bridge**.
05/23 – 06/24	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD)** – Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, scour calculations, H&V alignments, roadside drainage, quantity calculations and roadway and bridge plan reviews for the **4-span Off-System Bridge replacement** near Slaughter, LA.
05/23 – Ongoing	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, scour calculations, H&V alignments, roadside drainage, quantity calculations and roadway and bridge plan reviews for the **5-span, 28' clear width, curved, concrete slab span Off-System Bridge**.
07/22 – Ongoing	**S.P. No.'s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, scour calculations, H&V alignments, roadside drainage, quantity calculations and roadway and bridge plan reviews for the replacement of **three (3) RC slab span Off-System Bridges** and one (1) reinforced concrete box culvert throughout Tangipahoa Parish.
04/23 – Ongoing	**S.P. No. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)**– Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, H&V alignments, storm drain calculations, quantity calculations and roadway and bridge plan reviews for the **Off-System Bridge replacement** near Baker, LA.
11/10 – 06/14 *(previous employer)*	**S.P. No. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Engineer of Record. Responsible for topographic surveying, roadway design including approaches, utility relocations, bulkheads and drainage, and bridge design including special span lengths, curved spans, special bents and rail elements, oversight of construction support and shop drawing review for the **183' long Off-System Bridge replacement**.

16. Staff Experience:

11/13 – 11/18 *(previous employer)*	**S.P. No. H.010557, Lajaunie Road/Lateral 1 Bridge over Bayou St. Clair, Lafayette Parish, LA (LADOTD) –** Senior Professional/QA/QC. Supervision of topographic surveying and engineering design including roadway and bridge design for preliminary plans of the **80' RC Slab and quad-beam, superelevated, curved Off-System Bridge structure** including roadway upgrades to RL-3 criteria.
03/23 – Ongoing	**S.P. No. H.014980, Chinaberry Drive over Unnamed Coulee, Acadia Parish, LA (LADOTD) –** Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, H&V alignments, quantity calculations and roadway and bridge plan reviews for the **3-span, Off-System Bridge replacement** in Acadia Parish.
01/24 – Ongoing	**S.P. No. H.015334, 9th Street over St. Louis Canal, Terrebonne Parish, LA (LADOTD) –** Quality Control Engineer. Responsible for performing QC reviews of roadway and bridge design elements including channel hydraulics and report, H&V alignments, roadside drainage, quantity calculations and roadway and bridge plan reviews for the **5-span concrete slab span Off-System Bridge replacement** in Houma, LA.
03/10 – 05/14 *(previous employer)*	**S.P. No. 713-04-0002, LA 400 Bridge over Cancienne Canal, Assumption Parish, LA (LADOTD) –** Engineer of Record. Responsible for topographic surveying, roadway design including approaches, and bridge design, supervised roadway and bridge plan production including bridge details, roadway details for the **7-span, Off-System Bridge replacement**.
10/09 – 11/17 *(previous employer)*	**07-EXT-22, Bayou Gardens Blvd. Extension: LA 660 to LA 316, Terrebonne Parish, LA (Terrebonne Parish Consolidated Government) –** Engineer of Record (Ph. I)/Supervising Engineer (Ph. II). Responsible for topographic surveying, oversight of roadway design including drainage and geometrics, and oversight of **160' Off-System RC Slab Span bridge** design including special/curved spans for 1.6-mile, four-lane roadway extension (UA-2) including signal upgrades and turn lanes on state routes.
1997 – 2011 *(previous employer)*	**S.P. No. 713-55-0100, St. Ann Bridge Replacement, Terrebonne Parish, LA (LADOTD) –** Engineer of Record. Responsible for topographic surveying and all roadway design aspects, bridge design and approaches for the **Off-System moveable Bridge replacement** with a single-leaf, bascule span bridge.
1993 – 1997 *(previous employer)*	**S.P. No. 065-91-0011; S.P. 855-04-0052; S.P. 855-08-00340, Howard Avenue Bridge and Approaches, Terrebonne Parish, LA (LADOTD) –** Engineer of Record. Responsible for roadway design including subsurface drainage, geometrics, and bridge design of **Off-System steel lift span bridge replacement** (using towers from Pinhook Rd. bridge) for preliminary and final plans.
1985 – 1991 *(previous employer)*	**S.P. No. 700-26-100, Off-System Bridge Replacement Program, Lafourche Parish, LA (LADOTD) –** Engineer of Record/Project Manager. Responsible for engineering design services for the **replacement of four (4) Off-System Bridges** and associated roadway approaches: S.P. 713-46-98, Parish Road 16 (Choctaw Road) over St. James Canal; S.P. 713-53-93, Parish Road 18 (60 Arpent Road) over Bayou Boudreaux; S.P. 713-53-94, Parish Road 11 (Lepine Rd. #1) over unnamed canal; and S.P. 713-53-92 Parish Road 579 (Hamilton Road) over 40 Arpent Canal.
1994 – 1995 *(previous employer)*	**S.P. No. 742-05-0042, Combon Bridge and Approaches, Terrebonne Parish, LA (LADOTD)** – Project Manager. Responsible for EIS document and design supervision of the **Off-System 100 Ft. vertical lift span** across Grand Caillou including roadway approaches and shop drawing reviews during construction.
1984 – 1986 *(previous employer)*	**S.P. No. 855-14-08 & 65-90-23, LA 3087: Bridge over Bayou Terrebonne at East Street, Terrebonne Parish, LA (LADOTD)** – Project Manager. Responsible for the roadway and bridge design services to retrofit the existing Prospect Street bridge to be relocated to construct a vertical lift bridge at East Street, and associated intersection improvements at LA 24 and LA 659.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**

Tyler H. Amedee, PE
Project Engineer

Years of relevant experience with this employer	<1
Years of relevant experience with other employer(s)	8

Degree(s) / Years / Specialization			Bachelor of Science/2016/Civil Engineering
Active registration number / state / expiration date			45334 / LA / 09-30-2025
Year registered	2021	**Discipline**	PE/Civil Engineering
Contract role(s) / brief description of responsibilities			Project Engineer - Tyler will assist with project design, hydraulics, and plan 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 time specified in the applicable MPR(s).
04/20 – 02/22 *(previous employer)*	**S.P. No. H.013988, LA 534: Bridges (LA 2 to Haynesville), Claiborne Parish, LA (LADOTD)** – Lead Project Engineer. Responsible for the review of topographic surveys and led all roadway design elements including H&V alignments, hydraulics & scour analysis, roadside drainage design, guardrail design, bridge TS&L, quantity calculations, inroads modeling and cost estimates. Also responsible for the preparation of Preliminary and Final Plans, design report forms, design waivers and exceptions and design criteria for the **replacement of ten (10) LADOTD On-System Bridges** along LA 534 throughout Claiborne Parish.
10/24 – Ongoing	**Brownswitch Rd. Bridge, Slidell, LA (St. Tammany Parish) –** Project Engineer. Responsible for the review of project design elements including H&V alignments, GeoHEC-RAS modeling, temporary detour geometrics and storm drain design for the **replacement of a single span bridge structure** in Slidell, LA. Also assisted with preliminary plan reviews.
12/18 – 02/22 *(previous employer)*	**S.P. No. H.013144, Pine Bluff Road/Drain to Cypress Creek; Tack Allen Road/Drain to Cypress Creek, Ouachita Parish, LA (LADOTD)** – Lead Project Engineer. Led the design of all roadway and bridge project elements including H&V alignments, guardrail design, hydraulic modeling and reports, quantity calculations inroads modeling and plan production for the **replacement of two (2) Off-System Bridge sites** in Ouachita Parish including one RC slab span bridge and on RC Box Culvert.
12/18 – 02/22 *(previous employer)*	**S.P. No. H.013199, Country Estates Dr. over St. Louis Bayou, Terrebonne Parish, LA (LADOTD)** – Lead Project Engineer. Led the design of all roadway and bridge project elements including H&V alignments, hydraulic modeling and reports, quantity calculations inroads modeling and plan production associated with the **replacement of an Off-System Bridge** in Terrebonne Parish.
06/20 – 02/22 *(previous employer)*	**S.P. No. H.013942, LA 9: Middle Fork Bayou and Creek Bridges, Claiborne Parish, LA (LADOTD)** – Project Engineer. Assisted with several roadway design elements including hydraulic modeling, H&V alignments, guardrail design and plan reviews associated with the replacement of **three (3) LADOTD On-System Bridges** along LA 9 throughout Claiborne Parish.
07/20 – 02/22 *(previous employer)*	**S.P. No. H.013986, LA 155 Bridges Near Coushatta, Red River Parish, LA (LADOTD)** – Project Engineer. Assisted with several roadway design elements including hydraulic modeling, H&V alignments, guardrail design and plan reviews associated with the replacement of **four (4) LADOTD On-System Bridges** along LA 155 throughout Red River Parish.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**

Luke Bourg
Senior Technician

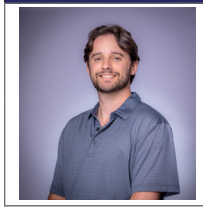
Years of relevant experience with this employer	1.5
Years of relevant experience with other employer(s)	15

Degree(s) / Years / Specialization			Associate of Applied Science/Drafting and Design/2008
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Senior Design Technician - Luke will assist in development of preliminary and final plans.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/23 – 05/24	**S.P. No. H.015025, McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD) –** Senior Project Technician. Responsible for the creation, development and Microstation drafting of all roadway and bridge preliminary and final plan sheets including Title Sheet, Typical Sections, Plan & Profiles, Summary Sheets, Embankment Widening, GP&E, Bridge Superstructure and Substructure Details associated with the **non-standard, curved, 4-span Off-System Bridge** replacement structure. Also responsible for the development of the inroads model, cross sections and earthwork quantity calculations.
04/23 – Ongoing	**S.P. No.s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Senior Project Technician. Responsible for the development and Microstation drafting of all roadway and bridge plans throughout the final plans phase of the project. Also responsible for the development of the inroads model, cross sections and earthwork quantity calculations for **all four (4) Off-System Bridge sites** in Tangipahoa Parish.
05/23 – 06/24	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD) –** Senior Project Technician. Responsible for the creation, development and Microstation drafting of all roadway and bridge preliminary and final plan sheets including Title Sheet, Typical Sections, Plan & Profiles, Summary Sheets, Embankment Widening, GP&E, Bridge Superstructure and Substructure Details associated with the **4-span Off-System Bridge** replacement structure. Also responsible for the development of the inroads model, cross sections and earthwork quantity calculations.
05/23 – Ongoing	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Senior Project Technician. Responsible for the creation, development and Microstation drafting of all roadway and bridge preliminary and final plan sheets including Title Sheet, Typical Sections, Plan & Profiles, Summary Sheets, Embankment Widening, GP&E, Bridge Superstructure and Substructure Details associated with the **non-standard, 5-span, curved Off-System Bridge** replacement structure. Also responsible for the development of the inroads model, cross sections and earthwork quantity calculations.
05/23 – Ongoing	**S.P. No. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Senior Project Technician. Responsible for the creation, development and Microstation drafting all preliminary plan sheets including Title Sheet, Typical Sections, and Plan & Profiles for the urban, **Off-System Bridge** structure replacement near Baker, LA. Also responsible for the development of the inroads model, cross sections and earthwork quantity calculations.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**



Miles Loker, EI
Engineer Intern

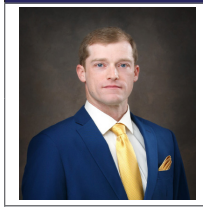
Years of relevant experience with this employer	>1
Years of relevant experience with other employer(s)	2

Degree(s) / Years / Specialization			Bachelor of Science/2024/Civil Engineering
Active registration number / state / expiration date			EI 35876 / LA / 03-31-2025
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Engineer Intern - Miles will perform hydraulic modeling and assist with road and bridge design elements and plan preparation.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/24 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish) –** Engineer Intern. Assisted with the development of several roadway and bridge plan sheets including plan & profile sheets, geometric layouts, summary of drainage sheets, phased construction sheets, general plan & elevation, foundation layout and cross sections for replacement of the existing **4-span Off-System Bridge** near Covington, LA. Also responsible for the development of quantity calculations and summary tables.
06/24 – Ongoing	**Brownswitch Rd. Bridge, Slidell, LA (St. Tammany Parish) –** Engineer Intern. Responsible for the review of the topographic survey and roadway design elements including H&V alignments, onsite detour road geometrics and drainage design, roadside design, structure selection and hydraulic modeling and report in Geo-HECRAS for the replacement of a single span bridge along Brownswitch Rd. in Slidell, LA. Also responsible for the development of all Preliminary Plan Sheets and project quantities.
06/24 – Ongoing	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Engineer Intern. Responsible for the development of Final Plan sheets including Permanent Striping and Signing, Summary Sheets, Temporary Erosion Control and assisted with the creation and development of bridge superstructure and substructure detail sheets included in the design of a **5-span, 28' clear width, curved slab span Off-System Bridge**.
05/24 – Ongoing	**S.P. No. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Engineer Intern. Assisted with the preparation of Final Plans for **four (4) Off-System Bridge** replacement structures throughout Tangipahoa Parish. Responsible for the creation of temporary erosion control sheets, permanent marking layouts and summary of drainage structure sheets. Also assisted with development of project quantities and summary tables.
04/24 – Ongoing	**S.P. No. H.015334 – 9th St. Bridge over St. Louis Canal, Terrebonne Parish, LA (LADOTD) –** Engineer Intern. Responsible for the creation and development of Preliminary Plan sheets including typical sections, plan & profile sheets, sequence of construction, detail of detour, GP&E and foundation layout for the replacement of a **3-span Off-System Bridge** in Houma, LA.
05/22 – 03/24 *(previous employer)*	**Contract No. 4400019336, Rural Bridge Replacement Initiative (Phase 2) (40 bridge structures), LADOTD, Districts 04 and 05** – Project Technician. Assisted with the development of several plan sheets including typical sections, plan & profiles, sequence of construction, embankment widening and guard rail layout, summary sheets, summary of drainage structures, temporary erosion control and cross sections for the replacement of **forty (40) On-System Bridge structures** in northern LA. Also assisted with the creation and development of permit drawings to be used in obtaining environmental clearance.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**



Matthew J. Ledet, PLS
Survey Manager

Years of relevant experience with this employer	3
Years of relevant experience with other employer(s)	17

Degree(s) / Years / Specialization			Bachelor of Science/2008/Manufacturing Engineering Technology Bachelor of Science/2010/Geomatics
Active registration number / state / expiration date			5104 / LA / 09-30-2026
Year registered	2014	**Discipline**	PLS/Surveying
Contract role(s) / brief description of responsibilities			Lead Surveyor/Surveyor of Record – Matthew will oversee topographic surveys, property surveys and right-of-way maps. His 20 years of experience meets **MPR #4.**

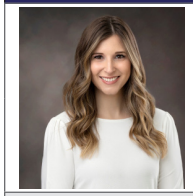
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/20 – 12/21 *(previous employer)*	**Contract 44-17598 – Rural Bridge Replacement Initiative Phase I (47 bridge structures), Districts 04, 05, 08, 58 (LADOTD) –** Lead Surveyor/Surveyor of Record. Led survey effort including GPS control establishment, topographic surveys, data processing, deliverable preparation, property surveys and Right of Way Mapping for the **replacement of forty-seven (47) bridge structures in northern Louisiana containing nine (9) Off-System Bridges**.
05/23 – 06/23	**S.P. No. H.015025, McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic survey, crew coordination, oversight of data processing, LiDAR processing, field book documentation, development of topographic field roll, and channel cross sections associated with the **replacement of a 4-span, Off-System Bridge** in St. Helena Parish.
03/23 – 04/23	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic survey, crew coordination, oversight of data processing, LiDAR processing, field book documentation, development of topographic field roll, and channel cross sections associated with the **replacement of a 4-span, Off-System Bridge** near Slaughter, LA.
04/23 – 05/23	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic survey, crew coordination, oversight of data processing, LiDAR processing, field book documentation, development of topographic field roll, and channel cross sections associated with the **replacement of an Off-System Bridge** near Pineville, LA**.**
07/22 – 08/24	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government) –** Lead Surveyor/Surveyor of Record. Responsible for topographic survey, crew coordination, data processing, deliverable preparation, title take offs, property surveys and base and final right-of-way maps associated with the roadway re-alignment and **Off-System bridge replacement** along Rousseau Rd. in Covington, LA.
11/23 – Ongoing	**S.P. No. H.015334, 9th Street over St. Louis Canal, Terrebonne Parish, LA (LADOTD)** – Lead Surveyor/Surveyor of Record. Responsible for topographic survey, crew coordination, oversight of data processing, LiDAR processing, field book documentation, deliverable preparation, title take-offs, property surveys and base right-of-way maps associated with the **replacement of a 4-span, Off-System bridge** in Houma, LA.

16. Staff Experience:

03/23 – 04/23	**S.P. No. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic survey, crew coordination, oversight of data processing, LiDAR processing, field book documentation, development of topographic field roll, and channel cross sections associated with the urban **replacement of an Off-System Bridge** near Baker, LA.
08/15 – 08/18 *(previous employer)*	**S.P. No. H.011540, Babin Road Bridge/Bayou Narcisse, Ascension Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic surveys, crew coordination, oversight of data processing, LiDAR processing for surface generation and use in existing drainage maps, deliverable preparation, title take off, property surveys, prepared base, and final right-of-way maps for the **80' long Off-System Bridge replacement** project.
11/13 – 05/14 *(previous employer)*	**S.P. No. H.010557, Lajaunie Road/Lateral 1 Bridge over Bayou St. Clair, Lafayette Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic surveys, crew coordination, oversight of data processing, LiDAR processing, existing drainage maps, deliverable preparation, title take off, property surveys, prepared base, and final right-of-way maps for the **Off-System Bridge replacement** project.
03/22 – 07/22	**S.P. No.s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Lead/Surveyor of Record. Responsible for topographic surveys, crew coordination, data processing, LiDAR processing for surface generation and use in existing drainage maps for the **replacement of four (4) Off-System Bridge replacements** with RC Slab Span sites throughout Tangipahoa Parish.
07/21 – 12/21 *(previous employer)*	**Contract 44-19336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04 & 05, (LADOTD) –** Lead Surveyor/ Surveyor of Record. Led survey effort including GPS control establishment, topographic surveys, data processing, deliverable preparation for the **replacement of forty (40) On-System Bridge structures** in northern Louisiana.
03/10 – 10/10 *(previous employer)*	**S.P. No. 713-04-0002, LA 400 Bridge over Cancienne Canal, Assumption Parish, LA (LADOTD) –** Survey Support. Performed field topographic surveys, processed data and prepared topographic survey deliverables on field roll for the **Off-System Bridge replacement** project in Assumption Parish.
06/18 – 10/18 *(previous employer)*	**S.P. No. H.013080, McLemore Road/Bee Bayou, Richland Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic surveys, crew coordination, oversight of data processing, deliverable preparation for the **6-span, Off-System Bridge replacement** near Rayville, LA.
04/13 – 08/13 *(previous employer)*	**S.P. No. H.010559, Bayou Mercier Road/Berard Canal Bayou, St. Martin Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic surveys, crew coordination, oversight of data processing, deliverable preparation for the 200' long, **5-span Quad Beam Off-System Bridge replacement** project near Catahoula, LA.
06/15 – 08/15 *(previous employer)*	**S.P. No. H.011806, Gracie Lane Bridge, Iberville Parish, LA (LADOTD) –** Lead Surveyor/Surveyor of Record. Responsible for topographic surveys, crew coordination, oversight of data processing, topographic survey deliverable preparation for the **7-span, Off-System Bridge replacement** project near Bayou Sorrel, LA.
02/18 – 12/18 *(previous employer)*	**ENG-17-013, LA 3127 Extension (LA 70 to LA 1), Ascension Parish, LA (Ascension Parish Government) –** Lead Project Surveyor. Responsible for topographic surveys, crew coordination, oversight of data processing, deliverable preparation, title take off, title research reports, property surveys, prepared base right of way maps including 12 parcels for the 6.8-mile roadway extension project including several **Off and On-System Bridges**.
02/11 – 01/13 *(previous employer)*	**S.P. No. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Survey Support. Performed field topographic and property surveys, prepared topographic survey deliverables, prepared base, and final right of way maps for the urban, **3-lane Off-System Bridge replacement** project in Thibodaux, LA.
09/04 – 06/07 *(previous employer)*	**S.P. No. 742-55-0102, Country Drive Widening, Terrebonne Parish, LA (LADOTD)** – Survey Support. Assisted with calculating 107 parcels on base and final right-of-way maps; performing topographic survey; boundary survey for 2.7 miles roadway widening project.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**



Kelly G. Jones
Senior Technician

Years of relevant experience with this employer	2
Years of relevant experience with other employer(s)	3

Degree(s) / Years / Specialization			Bachelor of Arts/2012/Mathematics & English
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Survey Technician - Kelly will assist with data processing, topographic survey deliverables, and development of property surveys and right-of-way maps.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/22 – 08/22	**S.P. No.s H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Survey Technician. Processed survey data and prepared survey deliverables for the survey of **four (4) Off-System Bridge** sites, prepared GPS control sketches, survey alignments, survey .DTM surfaces, prepared survey control reports, forms and letters for the LADOTD topographic survey deliverables in Microstation, Inroads and CAD Conform.
05/23 – 06/23	**S.P. No. H.015025, McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD) –** Survey Technician. Processed survey data and prepared survey deliverables for the survey of a single **Off-System Bridge** replacement, prepared GPS control sketches, survey alignments, survey .DTM surfaces, prepared survey control reports, forms and letters and LADOTD survey deliverables in Microstation, Inroads and CAD Conform.
03/23 – 04/23	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD) –** Survey Technician. Processed survey data and prepared survey deliverables for the survey of a single **Off-System Bridge** replacement, prepared GPS control sketches, survey alignments, survey .DTM surfaces, prepared survey control reports, forms and letters and LADOTD survey deliverables in Microstation, Inroads and CAD Conform.
04/23 – 05/23	**S.P. No. H.014984, Libuse Cutoff Road/Flagon Bayou, Rapides Parish, LA (LADOTD) –** Survey Technician. Processed survey data and prepared survey deliverables for the survey of a single **Off-System Bridge** replacement, prepared GPS control sketches, survey alignments, survey .DTM surfaces, prepared survey control reports, forms and letters and LADOTD survey deliverables in Microstation, Inroads and CAD Conform.
05/20 – 12/21 *(previous employer)*	**Contract 44-17598 – Rural Bridge Replacement Initiative Phase I (47 bridge structures), Districts 04, 05, 08, 58 (LADOTD) –** Survey Technician. Processed survey data and prepared survey deliverables for the **replacement of 47 bridge structures** in northern Louisiana containing **nine (9) Off-System Bridges**. Also assisted with the creation and development of property surveys and right-of-way maps.
07/21 – 05/22 *(previous employer)*	**Contract 44-19336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04 & 05, (LADOTD)** – Survey Technician. Processed survey data and prepared survey deliverables for the **replacement of forty (40) bridge structures** in northern Louisiana. Also assisted with the creation and development of property surveys and right-of-way maps.
12/22 – 04/23	**S.P. No. H.014980, Chinaberry Dr. over Unnamed Coulee, Acadia Parish, LA (LADOTD)** – Survey Technician. Processed survey data and prepared survey deliverables for the survey of a single **Off-System Bridge** replacement, prepared GPS control sketches, survey alignments, survey .DTM surfaces, prepared survey control reports, forms and letters and LADOTD survey deliverables in Microstation, Inroads and CAD Conform.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**

Dakotah "Kody" Holley
Survey Party Chief

Years of relevant experience with this employer	2
Years of relevant experience with other employer(s)	4

Degree(s) / Years / Specialization			High School Diploma/2017
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Survey Party Chief

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/23 – 06/23	**S.P. No. H.015025, McLin Road over Darling Creek, St. Helena Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, and field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the **replacement of an Off-System Bridge** in St. Helena Parish using LADOTD codes and procedures.
03/23 – 04/23	**S.P. No. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, and field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the **replacement of an Off-System Bridge** near Slaughter, LA using LADOTD codes and procedures.
04/23 – 05/23	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, and field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the **replacement of an Off-System Bridge** near Pineville, LA using LADOTD codes and procedures.
03/22 – 06/22	**S.P. No.s H.015333, H.015404, H.015407 - Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, and field topographic surveys of the existing bridge sites, roadways, utilities and other features associated with **four (4) Off-System Bridge replacements** throughout Tangipahoa Parish as a part of the District 62 IIJA Program.
10/23 – 06/24	**S.P. No. H.015334, 9th Street over St. Louis Canal, Terrebonne Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, property surveys and field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the **Off-System Bridge replacement** in Houma, LA as a part of the District 02 IIJA Program.
03/23 – 04/23	**S.P. No. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, and field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the **replacement of an urban Off-System Bridge** near Baker, LA using LADOTD codes and procedures.
12/22 – 03/23	**S.P. No. H.014980, Chinaberry Drive over Unnamed Coulee, Acadia Parish, LA (LADOTD) –** Party Chief. Performed GPS static control establishment, digital levels, and field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the **replacement of an Off-System Bridge** in Acadia Parish using LADOTD codes and procedures.

16. Staff Experience:

Firm employed by: **Crescent Engineering & Mapping, LLC**

Joseph Maurin
Survey Party Chief

Years of relevant experience with this employer	<1
Years of relevant experience with other employer(s)	5.5

Degree(s) / Years / Specialization			High School Diploma/2017
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Survey Party Chief

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/24 – 06/24	**S.P. No. H.015334, 9th St. Bridge over St. Louis Canal, Terrebonne Parish, LA (LADOTD) -** Party Chief. Performed GPS and conventional property surveys for Right of Way maps including 6 parcels for the **Off-System Bridge** replacement project in Houma, LA.
07/24 – 09/24	**Brownswitch Rd. Bridge Replacement, St. Tammany Parish (St. Tammany Parish Government) -** Party Chief. Performed GPS static control surveys, digital levels, topographic surveys and property surveys for Right of Way maps including 6 parcels for the **Off-System Bridge** replacement and detour project near Slidell, LA.
05/24 – 09/24	**LA 1256 at Carlyss Dr., Calcasieu Parish, LA (Calcasieu Parish Government) -** Party Chief. Performed GPS static control establishment, digital levels, field topographic surveys of the existing roadway, utilities, SUE locates, drainage and other features, survey for property maps for intersection improvements with a 250' wide .DTM, using LADOTD codes and procedures.
11/24 – Ongoing	**S.P. No. H.014056, I-69 Frontage Road Connector (Stonewall Frierson), Desoto & Caddo Parishes, LA (LADOTD) –** Survey Party Chief. Installed stainless steel deep-rod monuments for long-term, primary control, performed GPS static control surveys, ran digital levels for three (3) State projects over 10 miles long, performed topographic surveys for the I-69 Frontage Road segment SIU 15 near Stonewall, LA.
10/24 – Ongoing	**S.P. No. H.015605, S. Tangipahoa Pavement Rehabilitation Phase 2, Tangipahoa Parish, LA (Tangipahoa)** – Party Chief. Performed GPS static control establishment, ran digital levels, field topographic surveys of existing roadways, utilities, drainage and other features along W. Club Deluxe, Bankston and Old US 51 totaling nearly 8 miles of roadway using LADOTD codes and procedures.
05/24 – 06/24	**St. James Parish Road Improvements (FY2024), St. James Parish, LA (St. James Parish) –** Party Chief. Performed GPS control establishment and field topographic surveys of approximately seven (7) miles of roadways, driveways, utilities and roadside drainage features in St. James Parish, LA.
05/24 – 10/24	**S.P. H.015101, Lowes Ave at LA 44 Roundabout, Ascension Parish, LA (Ascension Parish Government) –** Party Chief. Performed GPS topographic surveys of the existing drainage features for use in construction of drainage maps using LADOTD codes and procedures.
06/24 – 07/24	**S.P. No. H.014984, Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) –** Party Chief. Performed additional field topographic surveys of the existing bridge site, roadway, utilities and other features associated with the replacement of an Off-System Bridge near Pineville, LA.

16. Staff Experience:

Firm employed by: **ELOS Environmental, LLC**

Lucas Watkins Principal/Environmental Scientist		**Years of relevant experience with this employer**	18
		Years of relevant experience with other employer(s)	4

Degree(s) / Years / Specialization			MS / 2005 / Biological Sciences BS / 2000 / Forest Management
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Lucas will serve as the Principal/Environmental Scientist, providing assitance in project oversight, NEPA clearance, and agency coordination.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/20 – Ongoing	**Rural Bridges, Phases I & II; Statewide, LA (LADOTD) -** ELOS has been contracted to provide environmental services for the LADOTD Rural Bridge Replacement Initiative projects in six districts across the state. Mr. Watkins ensures that all phases of the project adhere to federal and state environmental regulations. He facilitates effective communication among DOTD officials, environmental organizations, and other stakeholders to address concerns and maintain transparency throughout the project.
09/22 – Ongoing	**Contract No. 44-25041 - IIJA Off-System Bridges, District 62 (LADOTD) -** This off-system bridge project involves the replacement of six bridges; ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and write navigability determination reports. Mr. Watkins has reviewed the findings reports prior to client submission.
10/23 – Ongoing	**Off-System Bridge Program, East Baton Rouge Parish-** ELOS is contracted to prepare and submit permit applications to the U.S. Army Corps of Engineers (USACE) to include completing permit application packet, documenting the rationale for the project, providing the summary of project and detailed verbal description of the project location. ELOS is also responsible for generating one site plan for each project and coordinating with USACE for a permit under Section 10/404 of the Clean Water Act. Mr. Watkins the permit application throughout the entire process to ensure success of the permit process.
08/22 – 08/24	**Rousseau Bridge Replacement; St. Tammany Parish, LA (St. Tammany Parish) -** ELOS was contracted to provide professional environmental for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Mr. Watkins directed the comprehensive assessment of potential environmental impacts related to transportation infrastructure projects. He ensured the accuracy, completeness, and integrity of environmental reports and documentation submitted to regulatory agencies for review and approval.
02/22 – Ongoing	**Lock No. 3 Replacement, St. Tammany Parish, LA (St. Tammany Parish)** - ELOS has been contracted to perform wetland delineation, submit joint permit applications, perform a State Historic Preservation Office (SHPO) Section 106 desktop review and Consultation, and perform a U.S. Fish and Wildlife (USFWS) Endangered Species Act (ESA) Biological assessment for the St. Tammany Parish Lock No. 3 Bridge Replacement project. Mr. Watkins ensures that all phases of each step of the project complies with all state and federal regulations.

16. Staff Experience:

03/24 – Ongoing	**Brownswitch Rd. Bridge Replacement, St. Tammany Parish (St. Tammany Parish Government) -** ELOS was contracted to collect data and prepare a report to support a Wetland Delineation and manage the permit process with the USACE. ELOS will facilitate compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966 by completing a Section 106 Desktop Review. ELOS will conduct a biological survey to determine potential effects on species protected under the Endangered Species Act (ESA), Migratory Bird Treaty Act (MBTA), Bald and Golden Eagle Protection Act (BGEPA) and all other applicable law and regulations. Mr. Watkins has overseen every step of the process ensuring compliance with all regulations and transparency between all stakeholders in the project.
04/22 – Ongoing	**Yellow Water Road Bridge Replacement -** ELOS has been contracted to prepare a Early Section 106 Tribal coordination packet and submit it to the DOTD Project Manager (ELOS will not directly communicate with the tribal governments). ELOS will conduct biological assessment and a review of previous Historic Reviews. Mr. Watkins will review the finding of all reviews and the permit packet prior to submission.
12/22 – Ongoing	**Wildwood Dr. Bridge -** ELOS was contracted to perform a Wetlands Delineation Assessment, a Biological Assessment, and a Cultural Resource Survey. Mr. Watkins directed the assessments and ensured the accuracy of the Cultural Resource Survey. He supervised the submission of all pertinent documentation to the appropriate agencies.
11/17 – Ongoing	**Move Ascension, Phases I, II, & III; Ascension Parish, LA -** ELOS is contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Watkins has reviewed delineation details, edited cultural resource reports, developed and analyzed alternatives, reviewed scheduled, assisted with wetland mitigation, and reviewed permit applications.
08/22 – Ongoing	**S.P. No. H.014362, Lake Road; St. Tammany Parish, LA -** ELOS was contracted to complete the solicitation of views and categorical exclusion notices, conduct a wetland delineation, and submit a joint permit application, scenic rivers permit application, and USCG bridge permit application for the project. Mr. Watkins reviewed the categorical exclusion packet and assisted with agency coordination and requests for more information.
02/23 – Ongoing	**S.P. No. H.014340, E. Minnesota Park Rd at Range Rd, Tangipahoa Parish, LA (LADOTD) -** ELOS is contracted to complete a wetland delineation report, submit a permit application, as well as assist with a CATEX, Phase I ESA, and the solicitation of views (SOVs) for the roundabout project at the intersection of Minnesota Park and Range Road. Mr. Watkins monitors the project timelines, milestones, and budgets to ensure timely delivery of environmental assessments that align with project schedules. He also reviewed the SOVs and supporting documentation prior to initiating the process with agencies.
08/22 – Ongoing	**MoveBR Mickens Road; East Baton Rouge Parish, LA -** ELOS is contracted to provide environmental services for a 2.8-mile-long roadway improvements project on Mickens Road from Hooper Road to Joor Road in East Baton Rouge. Services included a wetland delineation, a Phase I ESA, and a permit application to USACE. Mr. Watkins has reviewed the wetland delineation report, coordinated staff for the Phase I ESA tasks, reviewed final reports, and consulted with the Parish leadership.

16. Staff Experience:

Firm employed by: **ELOS Environmental, LLC**

Brian Fortson Senior Project Manager/Biologist		**Years of relevant experience with this employer**	11
		Years of relevant experience with other employer(s)	23

Degree(s) / Years / Specialization			JD / 2006 / Civil Law BS / 1995 / Wetland Ecology
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Brian will serve as the Senior Project Manager/Biologist and assist with NEPA clearance, feasibility analysis, and agency coordination. Brian meets **MPR #5.**

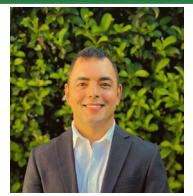
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
08/23 – Ongoing	**Off-System Bridge Program, East Baton Rouge Parish -** Mr. Fortson has coordinated with the environmental scientists to review the wetland delineation reports and assist with USACE permit applications for 13 bridge replacements.
09/20 – Ongoing	**Rural Bridges Phases I & II; Statewide, LA (LADOTD) -** ELOS has been contracted to provide professional environmental consulting services for the Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a T&E survey. Mr. Fortson has reviewed wetland delineation reports and categorial exclusion documentation, discussed findings and reviewed data for final reports, and met with staff internally to develop threatened and endangered species surveys.
09/22 – Ongoing	**Contract No. 44-25041 - IIJA Off-System Bridges, District 62 (LADOTD) -** This off-system bridge project involves the replacement of six bridges; ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and write navigability determination reports. Mr. Watkins has reviewed the findings reports prior to client submission.
10/22 – 09/23	**Rousseau Bridge Replacement; St. Tammany Parish, LA (St. Tammany Parish)** - ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Fortson assisted with the report drafts and permit applications.
05/21 – 05/22	**Chris Kennedy Rd Bridge Replacement, St. Tammany Parish, LA (St. Tammany Parish)** - ELOS was contracted to provide professional environmental engineering services to collect data to further prepare reports for wetland delineation, biological assessment and cultural impact in accordance with the removal and replacement plans. Mr. Fortson coordinated with internal teams to review reports, correlative maps, and environmental data to complete the approved contract.

16. Staff Experience:

03/22 – 12/23	**Lock No. 2 Bridge Replacement, St. Tammany Parish, LA (St. Tammany Parish)** - Mr. Fortson assisted with internal teams to provide Cultural resource services for the Lock No. 2 Bridge replacement located on approximately 4.83-acres in St. Tammany Parish. ELOS was contracted to provide Section 106 of NHPA, Terrestrial Phase I Culture Resource Survey and Cultural Resource Assessment No Findings report.
11/17 – Ongoing	**Move Ascension - Phases I, II, & III; Ascension Parish, LA** - ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Fortson leads multi-disciplinary teams of environmental specialists, engineers, and consultants to achieve project objectives efficiently and effectively through the complexities of environmental compliance, ensuring that infrastructure development meets regulatory standards while minimizing environmental impacts and maximizing community benefits.
02/23 – Ongoing	**S.P. No. H.014340, E. Minnesota Park Rd at Range Rd, Tangipahoa Parish, LA (LADOTD) -** ELOS is contracted to complete a wetland delineation report, submit a permit application, as well as assist with a CATEX, Phase I ESA, and the solicitation of views (SOVs) for the roundabout project at the intersection of Minnesota Park and Range Road. Mr. Fortson monitors the project timelines, milestones, and budgets to ensure timely delivery of environmental assessments that align with overall project schedules.
01/21 – Ongoing	**LA 22 Gapping; Ascension Parish, LA -** ELOS is contracted to perform a wetland delineation, complete a joint permit application, complete a biological survey, monitor for bald and golden eagle protection, complete a Phase I ESA, complete a Section 106 review and report, and assist with wetland mitigation planning. Mr. Fortson has served as the project manager to assist in determining the potential jurisdictional wetlands and other waters, preparing and submitting permit applications, and reviewing the desktop Section 106 review. He will also oversee the Phase I ESA and wetland mitigation planning.
01/22 – 09/22	**Judge Dufresne Parkway Extension; St. Charles Parish, LA -** ELOS was contracted to conduct a Wetland Delineation, submit Permit Applications, perform a Phase I ESA, and provide a Section 106 Desktop Review for a 161.5-acre site to extend Judge Dufresne Parkway to include several adjacent, privately owned parcels. Mr. Fortson oversaw the environmental consulting project for the parkway extension, ensuring that environmental considerations were integrated into all project phases, regulatory requirements were met, and the project was completed successfully while minimizing environmental impacts. He implemented quality assurance and control measures to ensure that deliverables meet established standards and client expectations. Mr. Fortson maintained accurate project documentation, including reports, permits, correspondence, and regulatory filings.
08/17 – 11/19	**I-10 Highland to LA 73 Design Build; East Baton Rouge Parish to Ascension Parish, LA** - ELOS was contracted to act as the environmental compliance manager responsible for permitting and construction monitoring for the fast-track interstate widening project from Highland Road in Baton Rouge to LA 73 in Prairieville. Mr. Fortson provided senior-level environmental project management for the project, overseeing complex environmental aspects of transportation infrastructure initiatives. He assisted in the development of a comprehensive environmental management strategy, wrote and assisted with amending the SWPPP as the project progressed, and assisted in preparing and reviewing the permit applications.
01/15 – 01/16	**S.P. No. H.011402, US 51 BUS: I-12 to Coleman Corridor Study– Environmental Services; Tangipahoa Parish, LA (LADOTD)-** ELOS was contracted to complete a biological survey and report, a Phase I ESA, and a draft environmental assessment, in addition to analyzing natural resource impacts and assisting with public outreach for this roadway improvement project. Mr. Fortson supervised and participated in field investigations to support wetlands delineations and findings reports, biological surveys, and threatened and endangered species reports. He also provided coordination among regulatory agencies, landowners, and public stakeholders.
07/20 – 08/21	**Trace Connection to Heritage Park Stage 0, St. Tammany Parish, LA -** ELOS was contracted to provide a Louisiana DOTD Stage 0 Environmental Checklist for the Trace Connection to Heritage Park project. The project determined the feasibility of two proposed alternatives for the extension of the Tammany Trace from U.S. Highway 190 West/Gause Blvd near Cherry Street eastward for approximately 2.7 miles with a 100-ft wide corridor. Mr. Fortson served as the project manager overseeing all fieldwork and coordinating between clients and government agencies.

16. Staff Experience:

Firm employed by: **ELOS Environmental, LLC**

Basile Dardar Environmental Specialist/Project Manager		**Years of relevant experience with this employer**	3
		Years of relevant experience with other employer(s)	7

Degree(s) / Years / Specialization			BS / 2014 / Biology
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Basile will serve as the Environmental Specialist/Project Manager, providing his expertise in wetland studies, endangered species survey including tri-colored bat, environmental permits, NEPA clearance and stage 0 checklists. Basile meets **MPR #5.**

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
08/23 – Ongoing	**Off-System Bridge Program, East Baton Rouge Parish -** Mr. Dardar has coordinated with the field team to conduct wetland delineations, complete wetland findings reports, work with the USACE for jurisdictional determinations of wetlands, and assist with USACE permit applications and supporting documentation for 13 bridge replacements.
09/22 – Ongoing	**Contract No. 44-25041 - IIJA Off-System Bridges, District 62 (LADOTD)** - ELOS is contracted to provide comprehensive services to replace bridges throughout various parishes located in Southeast Louisiana in several phases until completion. Mr. Dardar has coordinated with field teams to assess cultural and environmental impacts. Through ongoing efforts, Mr. Dardar has maintained the required data and documentation and reviewed deliverables and reports applicable to SOVs, wetland delineations, and categorical exclusion of the construction activities. He has assisted with preparing applicable permits, maps, forms, and supplemental documentation.
04/22 – Ongoing	**S.P. No.'s H.015404, H.015407, H.015333, Tangipahoa IIJA Bridges, Tangipahoa Parish, LA (LADOTD) -** ELOS is contracted to provide environmental services including wetland delineations, Solicitation of Views (SOVs), Categorical Exclusion (CE) documents, and permit applications and drawings for six bridges to be replaced in District 62. Mr. Dardar has conducted wetland delineations, prepared and submitted permit applications, and led the team in completing the SOVs and CE documentation.
06/22 – 09/23	**Rousseau Bridge Replacement, St. Tammany Parish, LA (St. Tammany Parish) -** ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Dardar has conducted a wetland delineation, submitted reports to USACE, coordinated with the field team regarding SOVs and information needed, and reviewed permit drawings.
11/21 – Ongoing	**Move Ascension - Phases II & III; Ascension Parish, LA -** ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Dardar has worked on the wetland findings report for the USACE jurisdictional determination of wetlands, reviewed delineation photographs and maps, and reviewed corresponding figures and data for the permit applications.

16. Staff Experience:

11/21 – Ongoing	**Rural Bridges Phases I & II; Statewide, LA (LADOTD) -** ELOS has been contracted to provide professional environmental consulting services for replacing bridges in rural areas for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included a wetland delineation, permit applications, a cultural resource survey, and a threatened and endangered species survey. Mr. Dardar has coordinated field crews, performed wetland delineations, collected and inputted data, written and produced reports, developed timelines, coordinated with LADOTD, worked on permit applications with state and federal agencies, and assisted with the surveys.
01/22 – 09/22	**Judge Dufresne Parkway Extension; St. Charles Parish, LA -** ELOS was contracted to conduct a Wetland Delineation, submit Permit Applications, perform a Phase I ESA, and provide a Section 106 Desktop Review for a 161.5-acre tract of land referred to as Judge Dufresne Parkway Extension located in St. Charles Parish, Louisiana. Mr. Dardar performed the wetland delineation, completed the Phase I ESA and its report, and assisted with the USACE permit application and follow-up.
06/24 – Ongoing	**S.P. No. H.014375 US 190 Roundabouts, St. Tammany Parish, LA (LADOTD)**- ELOS has been contracted to perform a wetland delineation, prepare and submit joint permit applications, complete Section 106 reviews, and conduct threatened and endangered species surveys for a 28-acre area for the installation of roundabouts on US 190. Mr. Dardar has assisted with writing and reviewing the threatened and endangered species report.
02/23 – Ongoing	**S.P. No. H.014340, E. Minnesota Park Rd at Range Rd, Tangipahoa Parish, LA (LADOTD) -** ELOS is contracted to complete a wetland delineation report to obtain a jurisdictional determination from the U.S. Army Corps of Engineers (USACE), submit a permit application, if necessary, as well as assist with a Categorical Exclusion (CATEX), Phase I Environmental Site Assessment (ESA), and the Solicitation of Views (SOVs) for a roundabout project (H.014340) covering 2.5 acres in Tangipahoa Parish. Mr. Dardar has worked on the SOVs, reviewed the CATEX sections and documentation, written permit applications, and coordinated with LADOTD.
05/20 – 11/21 *(previous employer)*	**Contract 44-17598 – Rural Bridge Replacement Initiative Phase I (47 Bridge Structures), Districts 04, 05, 08, 58 (LADOTD)** – Environmental/ Wetlands Biologist. Performed wetland delineations, compiled data and wetlands reports, prepared and submitted permit applications, assisted with CATEX document preparation, threatened and endangered species evaluation, coordinated crews, prepared reports and supported the overall environmental clearance effort for the replacement of 47 bridge structures in northern Louisiana.
06/21 – 02/22 *(previous employer)*	**Contract 44-119336 – Rural Bridge Replacement Initiative Phase II (40 Bridge Structures), Districts 04, 05 (LADOTD)** – Environmental/ Wetlands Biologist. Performed wetland delineations, compiled data and wetlands reports, prepared and submitted permit applications, assisted with CATEX document preparation, threatened and endangered species evaluation, coordinated crews, prepared reports and supported the overall environmental clearance effort for the replacement of 40 bridge structures in northern Louisiana including nine (9) Off-System Bridges.

16. Staff Experience:

Firm employed by: **ELOS Environmental, LLC**

Cory Ricks Environmental Scientist		**Years of relevant experience with this employer**	7
		Years of relevant experience with other employer(s)	1

Degree(s) / Years / Specialization			BS / 2015 / Biology
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Cory will serve as the Environmental Scientist providing his expertise for wetland delineations and jurisdictional determinations, as well as managing the collection of field data and the development of reports. Cory meets **MPR #5.**

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/20 – Ongoing	**Rural Bridges Phases I & II; Statewide, LA (LADOTD) -** ELOS has been contracted to provide professional environmental consulting services for the Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase 1 involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a threatened and endangered species survey. Mr. Ricks has coordinated field crews, performed wetland delineations, written and produced reports, developed timelines, coordinated with LADOTD, and assisted with the surveys.
06/22 – 09/23	**Rousseau Bridge Replacement, St. Tammany Parish, LA (St. Tammany Parish) -** ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Ricks worked on the emergency authorization application since the bridge was the only way to access a neighborhood, assisted with the Scenic Rivers permit application, and provided project updates to St. Tammany Parish.
04/22 – 02/24	**S.P. No.'s H.015404, H.015407, H.015333, Tangipahoa IIJA Bridges, Tangipahoa Parish, LA (LADOTD)** - ELOS is contracted to provide environmental services including wetland delineations, Solicitation of Views (SOVs), Categorical Exclusion (CE) documents, and permit applications and drawings for six bridges to be replaced in District 62. Mr. Ricks conducted a gopher turtle survey, wrote the findings report, completed permit applications with supporting documentation, and assisted with agency coordination.
11/17 – Ongoing	**Move Ascension - Phases I, II, & III; Ascension Parish, LA -** ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Ricks leads a team of field members to perform the wetland delineations. He has also assisted with cultural resources field investigations and with permit applications to state and federal agencies (USACE, LEDNR, DOTD).

16. Staff Experience:

05/21	**Tammany Trace Bridge Replacement, St. Tammany Parish, LA -** Mr. Ricks performed the wetland delineation, entered the wetforms, revised transmittals, reviewed the photographs/logs, coordinated with the GIS team to update maps, and submitted the wetland findings report.
05/22 – 03/24	**S.P. No. H.015408, North Brickyard Road Bridge, Tangipahoa Parish, LA (LADOTD) -** Mr. Ricks initiated the Solicitation of Views (SPVs), Categorical Exclusion (CE) documents, and reviewed all supporting documentation as it was sent and received from the agencies. He also assisted with permit applications and agency coordination when asked for additional information.
02/23 – Ongoing	**S.P. No. H.014340, E. Minnesota Park Rd at Range Rd, Tangipahoa Parish, LA (LADOTD) -** ELOS is contracted to complete a wetland delineation report to obtain a jurisdictional determination from the U.S. Army Corps of Engineers (USACE), submit a permit application, if necessary, as well as assist with a Categorical Exclusion (CATEX), Phase I Environmental Site Assessment (ESA), and the Solicitation of Views (SOVs) for a roundabout project (H.014340) covering 2.5 acres in Tangipahoa Parish. Mr. Ricks has researched additional information for reports, worked on files related to the CATEX, and assisted with reviewing agency requests for more information.
07/21 – 08/22	**LA Trace Road Widening, Ascension Parish, LA** - ELOS was contracted to complete a wetland delineation report and prepare and submit road widening and culvert replacement joint application permits to the USACE and LDENR. Mr. Ricks worked with the team on the wetland delineation and reviewed the final figures and reports, prepared the joint application permits, met with the landowner for right-of-way, provided follow-up information and permit revisions to USACE and LDENR, and reviewed project invoicing.
09/16 –06/20	**LA 3234 Extension to Hammond Airport Environmental Assessment, Tangipahoa Parish, LA -** ELOS was contracted to provide environmental services for the LA-3234 Extension from LA-1065 to Hammond Airport. These services included preparing estimates of environmental mitigation costs so that ELOS will estimate the cost of mitigation of any unavoidable environmental impacts, such as wetland mitigation, hazardous waste mitigation, or cultural resource mitigation. Mr. Ricks performed the wetland delineation for all three routes and provided a report of the findings. Mr. Ricks also assisted in GIS mapping of the Wetlands Findings Report, Phase I Environmental Site Assessment, and the Biological Assessment Survey. Mr. Ricks also provided a report of the threatened and endangered species known in the project area. Mr. Ricks led efforts on providing stream and waterbody data for each report.
08/17 – 11/19	**I-10 Highland to LA 73 Design Build, East Baton Rouge Parish to Ascension Parish, LA -** ELOS was contracted to act as the environmental compliance manager responsible for permitting and construction monitoring for the fast-track interstate widening project from Highland Road in Baton Rouge to LA 73 in Prairieville (H.009250). The project included widening an approximately 6-mile segment of I-10 and expanding two bridges/overpasses. Mr. Ricks worked on documentation for the CATEX, wrote and revised several permits to state and federal agencies, and coordinated field crews for completing stormwater inspections and monitoring construction activities for environmental impacts and compliance.

16. Staff Experience:

Firm employed by: **ELOS Environmental, LLC**

Hunter Perrilloux
Environmental Scientist

Years of relevant experience with this employer	4
Years of relevant experience with other employer(s)	1

Degree(s) / Years / Specialization			BS / 2018 / Biology
Active registration number / state / expiration date			N/A
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Hunter will serve as the Environmental Scientist, providing his expertise for collecting and analyzing data for wetland delineations and jurisdictional determinations. Hunter meets **MPR #5.**

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/20 – Ongoing	**Rural Bridges Phases I & II, Statewide, LA (LADOTD)** - ELOS is contracted to provide wetland delineations, threatened and endangered species surveys, and permit applications for the replacement of rural bridges throughout Louisiana. Mr. Perrilloux has worked on phase II of the project and has conducted the fieldwork for the wetland delineations. He has also conducted endangered species surveys for the long-eared northern bat.
07/23 – 12/23	**S.P. No. H.014984 Libuse Cutoff Road over Flagon Bayou, Rapides Parish, LA (LADOTD) -** Mr. Perrilloux performed a wetland delineation for the off-system bridge project. He identified and mapped out the boundaries of wetlands within the project area. He assisted with the field surveys, reviewing relevant data, and applying the appropriate wetland delineation methods as outlined by regulatory agencies.
05/22 – 05/23	**S.P. No.'s H.015404, H.015407, H.015333, Tangipahoa IIJA Bridges, Tangipahoa Parish, LA (LADOTD)** - Mr. Perrilloux provided comprehensive environmental services for the off-system bridge project, including coordination with GIS specialists to create accurate map outlines of the project area. He performed a detailed wetland delineation, accurately identifying and mapping wetland boundaries. He collected field data to support the delineation and compiled all documents to create a wetlands findings report. In addition, Mr. Perrilloux prepared and submitted the necessary permit applications to ensure compliance with environmental regulations, facilitating a smooth review and approval process for the project.
10/21 – 11/21	**Fox Hollow Bridge II -** Mr. Perrilloux performed a thorough wetland delineation for the project area, accurately identifying wetland boundaries based on field observations. He collected essential data during the fieldwork, which was then input into a detailed Wetland Delineation Report, along with creating a photo log to document visual evidence of wetland features. Additionally, he assisted in the preparation of permit applications and supported the transmittal of reports to relevant regulatory agencies, ensuring all documentation was submitted in a timely and accurate manner for project compliance.
07/20	**Sisters Road Bridge Replacement -** Mr. Perrilloux conducted a wetland delineation for the bridge replacement project, identifying and mapping wetland boundaries based on vegetation, hydrology, and soil types. He completed the necessary wetland forms to document these findings, ensuring compliance with environmental regulations. Also, he collaborated with engineers and regulatory agencies, providing accurate reports for project approval.

16. Staff Experience:

06/22 – 07/22	**Lock No. 2 Bridge Replacement, St. Tammany Parish, LA (St. Tammany Parish) -** Mr. Perrilloux coordinated with the GIS team to develop a site outline and assist in the desktop wetland delineation process, ensuring accurate mapping of potential wetland areas. He contributed to the impacts section of the environmental application by documenting potential wetland impacts and providing necessary data for review. Also, he reviewed environmental documents for accuracy and sent shapefiles to the U.S. Army Corps of Engineers (USACE) for their approval. In the field, he performed wetland delineation by collecting data on vegetation, soil, and hydrology, helping to determine wetland boundaries, then compiled the findings into a detailed wetland delineation report and submitted it to regulatory agencies for review.
06/23	**S.P. No. H.014340, E. Minnesota Park Rd at Range Rd, Tangipahoa Parish, LA (LADOTD)** - Mr. Perrilloux performed wetland delineation for a DOTD roundabout project, identifying and mapping wetland boundaries based on vegetation, soil, and hydrology, while collecting field data necessary for accurate delineation. He created and finalized a comprehensive wetland delineation report in compliance with regulatory requirements, submitting it for review by the appropriate agencies. He also coordinated with the GIS team to ensure the accurate creation of wetland maps and worked closely with the client and regulatory agencies to keep all stakeholders informed about the project's progress and environmental concerns. Throughout the process, Mr. Perrilloux provided regular updates to the Project Manager, ensuring timely communication regarding field work, report status, and regulatory coordination.
06/23 – 12/23	**CRMC Greenwell Springs Road Site -** Mr. Perrilloux performed wetlands delineation, identifying and mapping wetland boundaries based on field data, then compiled the findings into a comprehensive wetland delineation report. He submitted the report to the relevant parish authorities for review. Also, he reviewed the restoration plan, ensuring it addressed environmental requirements and mitigation strategies. Additionally, Mr. Perrilloux prepared for a site visit by organizing necessary details for the field crew to assess the project area and its potential impact on surrounding wetlands.
08/22 – 02/23	**Military Road Development -** Mr. Perrilloux played a key role in supporting the road project by assisting with the preparation for site visits, coordinating with the field crew, project manager, and client to ensure effective communication and smooth operations. He reviewed the wetlands delineation report, providing edits to ensure accuracy and compliance with regulatory standards. After finalizing the report, the employee submitted it to the USACE for approval. Also, he inputted data and created a photo log to document the wetlands delineation process and support the completion of the report. In the field, he performed the wetland delineation, collecting essential data on vegetation, soil, and hydrology. Additionally, he reviewed relevant project documents to ensure alignment with environmental guidelines and regulatory requirements.

16. Staff Experience:

Firm employed by: **ELOS Environmental, LLC**

Christopher Wilson Archaeologist		**Years of relevant experience with this employer**	1
		Years of relevant experience with other employer(s)	5

Degree(s) / Years / Specialization			MA/2023/Art History and Curatorial Studies MA/2022/Archaeology BA/2021/Art and Archaeology
Active registration number / state / expiration date			Registered Professional Archaeologist
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities			Christopher will serve as an Archaeologist, providing his expertise for Terrestrial and Maritime Archaeology, Phase I, II, and III Cultural Resource Surveys, and construction monitoring.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
08/23 – 11/24	**Rural Bridge Replacement Phases I & II, Statewide, LA (LADOTD) -** Mr. Wilson was responsible for providing CRM (Cultural Resource Management) services for a DOTD rural bridge replacement project. His duties included conducting research, preparing a Phase I report, and managing STP (Shovel Test Pit) data. He coordinated with agencies such as SHPO (State Historic Preservation Office), NRHP (National Register of Historic Places), and DOTD. Additional tasks include preparing transmittal letters, completing LHRI (Louisiana Historic Resource Inventory) forms, managing the Survey123 platform, overseeing field crew activities, and preparing and submitting the final report. Mr. Wilson ensured all documentation and processes meet regulatory requirements for cultural resource assessments.
12/23 – 09/24	**Contract No. 44-25041 - IIJA Off-System Bridges, District 62 (LADOTD)** - Mr. Wilson was responsible for providing comprehensive CRM services for the DOTD Off-System Bridges District 62 project. His tasks included conducting background research, preparing desktop reports, and overseeing field crew activities. He utilized topographical maps and aerial investigations to gather critical data, created and submitted tribal packet research, and collected CRM information necessary for Categorical Exclusion (CATEX) evaluations. Additionally, he coordinated with agencies such as LHRI, DOTD, and SHPO to ensure compliance with regulations. Mr. Wilson prepared a Section 106 desktop report, assessing potential impacts on historic properties and ensuring the project aligns with cultural resource preservation requirements.
10/24 – Ongoing	**Brownswitch Rd. Bridge Replacement, St. Tammany Parish (St. Tammany Parish Government) -** For the St. Tammany bridge replacement project, Mr. Wilson provides CRM services, focusing on Section 106 compliance. His responsibilities include conducting a CRM Section 106 desktop review to assess the potential impacts of the bridge replacement on cultural resources. This involves reviewing SHPO databases for historic properties, conducting a cemetery review to identify any burial sites in the area, and assisting with the preparation of maps and aerial images to support the cultural resource assessment. He also compiles and creates a detailed Section 106 desktop review report, summarizing findings and ensuring compliance with historic preservation requirements, while addressing potential impacts to cultural resources in the project area.
11/23	**S.P. No.'s H.015404, H.015407, H.015333, Tangipahoa IIJA Bridges, Tangipahoa Parish, LA (LADOTD)** - For the DOTD Off-System Bridge Prioritization Project, Mr. Wilson provided a review of the project site to assess the potential effects of bridge replacements on cultural resources. He verified no cultural resources were needed, allowing the project to move forward in accordance with regulatory requirements.

16. Staff Experience:	
11/23	**S.P. No. H.015408, North Brickyard Road Bridge, Tangipahoa Parish, LA (LADOTD) -** Mr. Wilson reviewed the project site to assess with the potential effects of the bridge replacement on cultural resources. He verified no cultural resources were needed, allowing the project to move forward in accordance with regulatory requirements.
07/24 – 08/24	**S.P. No. H.014375 US 190 Roundabouts, St. Tammany Parish, LA (LADOTD)-** Mr. Wilson was responsible for CRM services for the construction of three roundabouts along Highway 190 in St. Tammany in support of Section 106 compliance. His responsibilities included SHPO files to include all previously recorded cultural resource surveys, archaeological sites, and historic structures within a 1-mile radius. He also compiles reviews and reports to summarize findings and addresses any potential impacts on cultural resources, including cemetery reviews.
10/24	**Livingston Parish Old Mill Settlement Road -** Mr. Wilson was responsible for performing a Section 106 desktop review in support of Livingston Parish Government for their proposed road project. His responsibilities included but were not limited to working with all applicable state agencies and adhering to the regulations of 36 CFR Part 800. He verified that the site had experienced some disturbances due to road construction and that there was a high probability of possible Cultural resources due to the proximity of the Amite River and the previously recorded archaeological sites.
07/24 – 09/24	**Juban North Extension** - Mr. Wilson provided a Section 190n desktop review for Livingston Parish Juban Road Extension. He researched and reviewed historical maps, aerial photographs, and the online database of archaeological and historic sites maintained by SHPO. He found that there had been 11 cultural resource investigations within 1-mile of the project area. He also reviewed historical topographical maps and aerials. Mr. Wilson found that because the site had not been heavily altered through construction previously a historic structure survey was recommended.
03/24 – 04/24	**5th Street Improvements (H.012885)** - Mr. Wilson performed a Phase I Cultural Resource Survey of 0.5-mile radius of the projected improvement project. This included a pedestrian survey, taking systematic photos, recording addresses of all historic structures, and completing all Louisiana Historic Resource Inventory forms. The buildings were found to not be eligible but it was noted that they are in a district that is potentially eligible as a Postwar Commercial Strip. He developed a plan for any cultural material encountered would be labeled with provenance and temporarily curated by ELOS. In the end, he recommended the project proceed as planned after concluding no significant cultural resources would be impacted.
06/24 – 10/24	**Move Ascension, Phase III** - Mr. Wilson was responsible for conducting a Section 106 Desktop Review of the Roddy Road area as part of the third phase of Move Ascension project. This review included identifying potential historic structures by using SHPO databases and files. He also reviewed historic aerial images for structures in the area. He was able to identify from the multiple sources that there were historical structures. He compiled his findings and met with GIS to report them.
10/23 – 02/24	**Tangipahoa USDOT BIP Services 2023** - Mr. Wilson performed a Cultural Resource Review of previous investigations. These investigations included surveys, cemeteries, and listings of historic structures. He coordinated with the project manager and SHPO while conducting and documenting the review.

SECTION 17

SP No. H.011788
Oak Street Bridge over Poydras Bayou
Erwinville, LA
Engineer of Record: Dennis Hymel, Jr., PE

17. Firm Experience:

Firm name	**Crescent Engineering & Mapping, LLC**	**Discipline(s)***	Survey, Bridge
McLin Road over Dutchman Creek		**Firm responsibility (prime or sub?)**	Prime
Project number	H.015025	**Owner's name**	Louisiana Department of Transportation & Development (LADOTD)
Project location	St. Helena Parish	**Owner's Project Manager**	Barbara Ostuno, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802 225-379-1047 barbara.ostuno@la.gov		
Services commenced by this firm (mm/yy)	04/23	**Total consultant contract cost ($1,000's)**	$160
Services completed by this firm (mm/yy)	05/24	**Cost of consultant services provided by this firm ($1,000's)**	$148

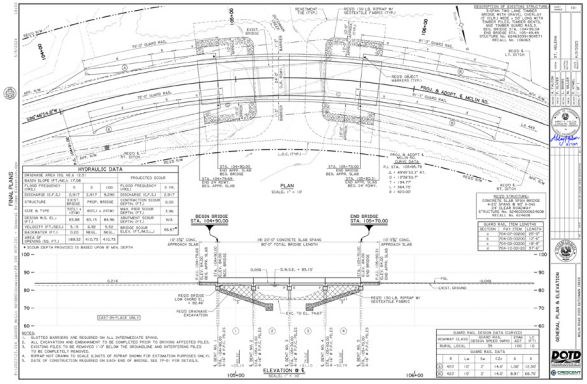
The McLin Road over Dutchman Creek project involved the replacement of an existing 15' x 50', 3-span timber bridge and adjacent roadway, drainage and guard rail improvements in St. Helena Parish near Pine Grove, LA and was administered through the LADOTD Off-System Bridge Replacement Program. The project includes topographic surveys, roadway design, bridge design, and environmental support services. The selected replacement structure was a 24' clear x 80' long, reinforced concrete slab span bridge with horizontally curved spans, curved approach slabs and 36" MASH TL-4 rails. The bridge was designed using OpenBridge Designer, STAAD, and LRFR using AASHTOWare BrR Ver. 7.5.1.

Crescent Engineering & Mapping, LLC was the Prime Consultant for the project and is responsible for the topographic surveys, hydraulic analysis and report of structure crossing, scour calculations, guardrail design, roadway design, temporary diversion layout and channel hydraulics, special, non-standard bridge design elements including span, bent and approach slabs in accordance with the LADOTD BDEM and AASHTO guidelines, roadway and bridge plan production. Hydraulic analysis of the channel was performed using GeoHEC-RAS and plans were produced in accordance with all LADOTD requirements including Bentley Microstation/ Inroads, ProjectWise and certified by CadConform. Horizontal and vertical alignments and bridge guard rail were specifically designed to minimize right-of-way impacts and eliminate conflicts with adjacent wetlands in order to streamline the environmental and right-of-way acquisition process.

Crescent has completed all services and the **project was let in June 2024** and is currently under construction.

Crescent completed the project from survey through Preliminary Plans, Environmental, Final Plans, and Letting **in only 13 months** due to an accelerated schedule.

Team Members Highlighted in this Proposal: Dennis M. Hymel Jr., P.E., Paul Olivier, P.E., Abbey Falcon, P.E., James Ledet, P.E., Megan Miller, P.E., Luke Bourg, Matthew Ledet, P.L.S., Kelly Jones, Dakotah Holley



17. Firm Experience:

Firm name	**Crescent Engineering & Mapping, LLC**	**Discipline(s)***	Survey, Bridge
Lemon Road over Drainage Bayou		**Firm responsibility (prime or sub?)**	Prime

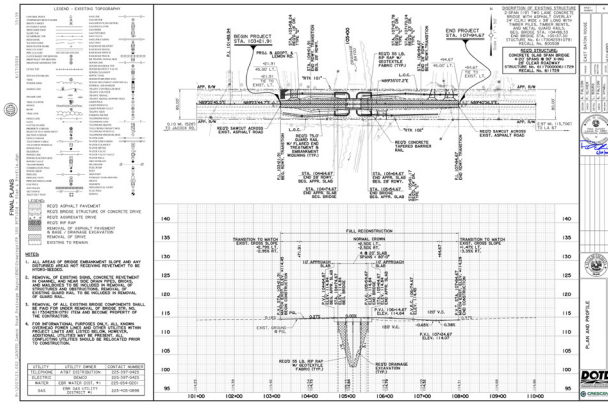
Project number	H.014993	**Owner's name**	Louisiana Department of Transportation & Development (LADOTD)
Project location	East Baton Rouge Parish	**Owner's Project Manager**	Barbara Ostuno, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802 225-379-1047 barbara.ostuno@la.gov		
Services commenced by this firm (mm/yy)	03/23	**Total consultant contract cost ($1,000's)**	$142
Services completed by this firm (mm/yy)	06/24	**Cost of consultant services provided by this firm ($1,000's)**	$131

The Lemon Road over Drainage Bayou project involved the replacement of an existing 24' x 38', 2-span concrete bridge and adjacent roadway, drainage and guard rail improvements in East Baton Rouge Parish near Slaughter, LA and was administered through the LADOTD Off-System Bridge Replacement Program. The project includes topographic surveys, roadway design, bridge design, and environmental support services. The selected replacement structure was a 28' clear x 80' long, reinforced concrete slab span bridge including a modified end bent and approach slab to accommodate a concrete tapered barrier railing to avoid adjacent driveway impacts. The bridge elements were designed using OpenBridge Designer, STAAD, and LRFR performed using AASHTOWare BrR Ver. 7.5.1.

Crescent Engineering & Mapping, LLC was the Prime Consultant for the project and is responsible for the topographic surveys, hydraulic analysis and report of structure crossing, scour calculations, storm drain design, guardrail design, roadway design, non-standard bridge design elements including bent and approach slab design, and roadway and bridge plan production. Hydraulic analysis of the channel was performed using GeoHEC-RAS and plans were produced in accordance with all LADOTD requirements including Bentley Microstation/Inroads, ProjectWise and certified by CadConform.

Crescent has completed all services and the **project was let in November 2024 (Project Completed in 15 Months)**

Team Members Highlighted in this Proposal: Dennis M. Hymel Jr., PE, Paul I. Olivier, PE, Abbey Falcon, PE, Megan M. Miller, PE, James Ledet, PE, Luke Bourg, Matthew J. Ledet, PLS, Kelly Jones, Dakotah Holley



17. Firm Experience:

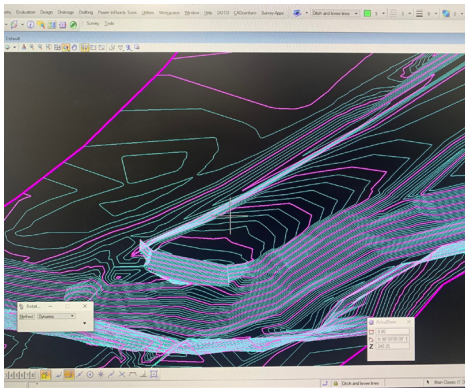
Firm name	**Crescent Engineering & Mapping, LLC**	**Discipline(s)***	Survey, Bridge
Tangipahoa IIJA Bridge Replacements		**Firm responsibility (prime or sub?)**	Prime
Project number	H.015404, H.015407, H.015333	**Owner's name**	Tangipahoa Parish/LADOTD
Project location	Tangipahoa Parish/Dist. 62	**Owner's Project Manager**	Kevin Greer/Ryan Rodney
Owner's address, phone, email	206 E. Mulberry St., Amite, LA 70422 985-244-6880 kgreer@tangipahoa.org		
Services commenced by this firm (mm/yy)	04/22	**Total consultant contract cost ($1,000's)**	$677
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$447

The Tangipahoa Parish IIJA Bridges is part of the District 62 IIJA (BIL) bridge replacement project and involves the replacement of 4 bridge structures along E. Lewiston, Easley and Old Gennessee Roads in Tangipahoa Parish. Grouped into three (3) state projects, each project includes topographic surveys, hydraulics and scour analysis and reports, bridge design, roadway design, geotechnical, environmental and contract management.

Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for the topographic surveys, hydraulic analyses and modeling, scour analyses, bridge design, roadway design, LRFR, utility surveys and roadway/bridge plan production. Hydraulic analysis was performed using GeoHEC-RAS as well as LADOTD's HYDRWIN for roadside drainage. Bridge structures and RCB's are being rating using AASHTOWare BrR. The project's design and drawings are being developed per LADOTD design guidelines and plan requirements using Microstation/Inroads.

Crescent has completed the topographic surveys, hydraulic analysis, road design, bridge design, Preliminary Plans and received environmental clearance for all 3 projects. Crescent has submitted 98% Final Plans on 2 of the 3 state projects (H.015407 & H.015333) and 95% Final Plans on the third project (H.015404).

Team Members Highlighted in this Proposal: Dennis M. Hymel Jr., P.E., Paul Olivier, P.E., Abbey Falcon, P.E., Megan Miller, P.E., James Ledet, P.E., Luke Bourg, Miles Loker, E.I., Matthew Ledet, P.L.S., Kelly Jones, Dakotah Holley




17. Firm Experience:

Firm name	**Crescent Engineering & Mapping, LLC**	**Discipline(s)***	Survey, Bridge
Libuse Cutoff Road over Flagon Bayou		**Firm responsibility (prime or sub?)**	Prime
Project number	H.014984	**Owner's name**	Louisiana Department of Transportation & Development (LADOTD)
Project location	Rapides Parish	**Owner's Project Manager**	Barbara Ostuno, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802 225-379-1047 barbara.ostuno@la.gov		
Services commenced by this firm (mm/yy)	04/23	**Total consultant contract cost ($1,000's)**	$163
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$151

The Libuse Cutoff Rd. over Flagon Bayou project involves the replacement of an existing 21' x 63', 3-span precast concrete bridge and associated roadway in Rapides Parish near Pineville, LA. Due to a sharp curve at the end of the existing bridge, the new structure was designed on an offset alignment to improve safety and operations of the roadway and the bridge bents are skewed to better align with the channel. The project includes topographic surveys, roadway design, bridge design, and environmental support services. The selected replacement bridge structure was a 28' x 100', horizontally curved, superelevated, skewed (15º), reinforced concrete slab span bridge with 20' approach slabs and 36" MASH TL-4 rails. The bridge structure was fully designed and detailed by Crescent using OpenBridge Designer, STAAD, and LRFR produced using AASHTOWare BrR Ver. 7.5.

Crescent Engineering & Mapping, LLC was the Prime Consultant for the project and is responsible for the topographic surveys, hydraulic analysis and report, scour calculations, curved guardrail design, roadway design (including re-alignment), and design of special bridge design elements including span, bent and approach slabs in accordance with LADOTD BDEM and AASHTO guidelines. Crescent also prepared all roadway plans and fully detailed all bridge plans for the non-standard bridge design. Hydraulic analysis of the channel was performed using GeoHEC-RAS and plans were produced in accordance with all LADOTD requirements including Bentley Microstation/Inroads, ProjectWise and certified by CadConform. Additional safety elements not typically used for Off-System bridges were incorporated into the design including rumble strips, striping, signage and raised pavement markers.

Crescent completed the 95% Final (ACP) Plans in September, 2024 and is awaiting NTP for 100% Final Plans.

Team Members Highlighted in this Proposal:
Dennis M. Hymel Jr., PE, Paul I. Olivier, PE, Abbey F. Falcon, PE, James Ledet, PE, Megan M. Miller, PE, Luke Bourg, Matthew Ledet, PLS, Kelly Jones, Dakotah Holley

17. Firm Experience:

Firm name	**Crescent Engineering & Mapping, LLC**	**Discipline(s)***	Survey, Bridge
Chinaberry Drive over Unnamed Coulee		**Firm responsibility (prime or sub?)**	Prime
Project number	H.014980	**Owner's name**	Louisiana Department of Transportation and Development (LADOTD)
Project location	Acadia Parish, LA	**Owner's Project Manager**	Barbara Ostuno, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802 225-379-1047 barbara.ostuno@la.gov		
Services commenced by this firm (mm/yy)	03/23	**Total consultant contract cost ($1,000's)**	$139
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$128

The Chinaberry Drive over Unnamed Coulee project involves the replacement of an existing 22' x 34', 2-span timber bridge and adjacent roadway, drainage and guard rail improvements in Acadia Parish and is administered through the LADOTD Off-System Bridge Replacement Program. The project includes topographic surveys, roadway design, bridge design, and environmental support services. The selected replacement structure was a 24' clear x 60' long, reinforced concrete slab span bridge including non-standard end bents and approach slabs designed in accordance with the LADOTD BDEM and AASHTO guidelines to accommodate a tapered barrier railing to minimize driveway impacts. Non-standard bridge elements are being designed using OpenBridge, STAAD and LRFR produced using AASHTOWare BrR Ver. 7.6.

Crescent Engineering & Mapping, LLC was the Prime Consultant for the project and is responsible for the topographic surveys, hydraulic analysis and report of structure crossing, scour calculations, storm drain design, guardrail design, roadway design, special bridge design elements including bent and approach slab design, and roadway and bridge plan production. Hydraulic analysis of the channel was performed using GeoHEC-RAS and plans were produced in accordance with all LADOTD requirements including Bentley Microstation/Inroads, ProjectWise and certified by CadConform.

Crescent has completed the 95% Final Plans (ACP) and is awaiting NTP for the 100% Final Plans.

Team Members Highlighted in this Proposal:
Dennis M. Hymel Jr., PE, Paul Olivier, P.E., Abbey Falcon, P.E., James Ledet, P.E., Luke Bourg, Matthew Ledet, P.L.S., Kelly Jones, Dakotah Holley

17. Firm Experience:

Firm name	**ELOS Environmental, LLC**	**Discipline(s)***	Environmental
DOTD IIJA Off-System Bridges District 62		**Firm responsibility (prime or sub?)**	Sub
Project number	Multiple	**Owner's name**	Louisiana Department of Transportation and Development (LADOTD)
Project location	Tangipahoa Parish, LA	**Owner's Project Manager**	Greg Sepeda (Sigma)
Owner's address, phone, email	10305 Airline Hwy, Baton Rouge, LA 70816 (225)810-3100 gsepeda@sigmacg.com		
Services commenced by this firm (mm/yy)	09/22	**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)**	$127

The Off-System Bridge Program, established under the Infrastructure Investment and Jobs Act (IIJA), is a key federal initiative aimed at improving bridges not located on the federal-aid highway system. The program is designed to address the needs of local and rural bridges, which often fall outside the primary focus of traditional federal bridge programs.

ELOS is currently contracted for the DOTD IIJA Off-System Bridge Program. The objective of this program was to replace as many poor condition, off-system bridges as possible by initial screenings of eligible "off-system" structures and create a Preliminary Screening Matrix/Spreadsheet. ELOS conducted appropriate technical and environmental studies and prepared necessary environmental documentation for approval from the Federal Highway Administration (FHWA), in accordance with the provisions of the National Environmental Policy Act (NEPA), FHWA Technical Advisory 6640.8a, and applicable laws, rules, guidance, and regulations. ELOS services encompass a comprehensive range of tasks aimed at ensuring compliance with environmental regulations and facilitating the necessary approvals for infrastructure projects. These services include environmental consulting to advise on regulatory requirements, NEPA (National Environmental Policy Act) compliance to assess and mitigate potential environmental impacts, and agency coordination to engage relevant federal, state, and local authorities. Additionally, services involve preparing section 106 tribal packets for consultation with native American tribes, solicitation of views to gather input from stakeholders, and conducting detailed studies such as wetland studies, cultural resources studies, and cultural resources surveys to evaluate the impact on natural and cultural resources. Surveys for threatened & endangered species and the preparation of a navigability determination packet help ensure environmental protections are met. The process also includes the development of an environmental determination checklist and the acquisition of necessary environmental permits to ensure all legal and regulatory requirements are fulfilled before the project proceeds.

Project Numbers: H.015429, H.015430, H.015431, H.015432, H.015432, H.015433, and H.015434

Team Members Highlighted in this Proposal:
Lucas Watkins, Basile Dardar, and Christopher Wilson.

17. Firm Experience:

Firm name	**ELOS Environmental, LLC**		**Discipline(s)***		Environmental
LADOTD Rural Bridges: Phases I & II				**Firm responsibility (prime or sub?)**	Sub
Project number	Multiple	**Owner's name**	Louisiana Department of Transportation and Development		
Project location	Statewide, LA Districts 3, 5, 7, 8, 58, 61 and 62		**Owner's Project Manager**	Brian Allen, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA, 70802 225-379-1840 brian.allen@la.gov				
Services commenced by this firm (mm/yy)	08/20		**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)**		$541.8

ELOS has been contracted by BKI to provide professional environmental consulting services for the Louisiana Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase II is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included wetland delineations, permit applications, cultural resource surveys, and threatened and endangered species surveys. ELOS has also assisted in the early planning stages of some of these projects to identify any possible adverse economic, social, or environmental effects or concerns.

ELOS has performed all environmental services according to the standards of the Federal Highway Administration (FHWA). Permits have been coordinated through several federal and state agencies including joint applications to the USACE and the Louisiana Department of Energy and Natural Resources (LDENR) / Office of Coastal Management, Scenic Rivers permits through the Louisiana Department of Wildlife & Fisheries, and cultural resource surveys in coordination with the Louisiana State Historic Preservation Office. ELOS also has personnel recently trained in the tricolored bat identification and surveys, which have been used for some of these bridge replacement projects.

Project Numbers: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997 (Phase 1) and H.014242, H.014243, H.014245, H.014246, H.014247, H.014248, H.014249, H.014250, H.014268, H.015685 (Phase II)

Team Members Highlighted in this Proposal:
Lucas Watkins, Brian Fortson, Cory Ricks, Hunter Perrilloux, Basile Dardar, and Christopher Wilson.

17. Firm Experience:

Firm name	**ELOS Environmental, LLC**	**Discipline(s)***	Environmental
Tangipahoa IIJA Off-System Bridges		**Firm responsibility (prime or sub?)**	Sub
Project number	H.015404, H.015407, H.015333	**Owner's name**	Tangipahoa Parish/LADOTD
Project location	Tangipahoa Parish, LA	**Owner's Project Manager**	Ryan Rodney
Owner's address, phone, email	206 E. Mulberry St., Amite, LA 70422 985-244-6880 kgreer@tangipahoa.org		
Services commenced by this firm (mm/yy)	03/22	**Total consultant contract cost ($1,000's)**	$677
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$78

The DOTD Off-System Bridge Replacement program focuses on replacing or rehabilitating bridges that are located on roads not part of the state highway system. These bridges typically serve local and rural areas, providing essential infrastructure for communities. Tangipahoa Parish is a participating parish with a list of qualified structures. The program is designed to address structural deficiencies, improve safety, and ensure compliance with modern design and environmental standards. It involves the evaluation, planning, and execution of bridge replacements to enhance transportation networks while minimizing disruptions to the affected communities.

ELOS is currently contracted to provide all professional environmental services as required to provide the documentation necessary for a Categorical Exclusion from the Federal Highway Administration (FHWA). This includes preparing a Categorical Exclusion (CE) Document, both preliminary and final, which assesses potential environmental impacts and supports exclusion from more extensive reviews under the National Environmental Policy Act (NEPA). The Wetland Findings Report evaluates the presence and impact of wetlands on the project sites, identifying mitigation measures if needed. Additionally, the preparation and submission of a US Army Corps of Engineers (USACE) Permit application ensures that the project complies with federal regulations governing activities that affect wetlands and waters of the U.S., including wetland delineations and necessary coordination with regulatory agencies. These services collectively ensure environmental compliance and smooth project execution.

ELOS is handling the solicitation of views, preparing the CE document in compliance with NEPA guidelines, and addressing potential environmental impacts such as wetlands, endangered species, hazardous materials, and more. The CE document includes detailed assessments of project alternatives, impacts, and coordination with stakeholders. We are also conducting a Wetland Findings Report, including wetland delineation, vegetation analysis, and impact quantification. Additionally, ELOS is preparing and submitting the US Army Corps of Engineers (USACE) Nationwide Permit application to meet all regulatory requirements. All deliverables, including the CE document, Wetland Findings Report, and permit application, are being prepared in accordance with FHWA and DOTD standards, with high-resolution photographs, maps, and comprehensive environmental documentation.

Project Numbers: H.015407, H.015333, H.015404

Team Members Highlighted in this Proposal:
Lucas Watkins, Brian Fortson, Cory Ricks, Basile Dardar, Hunter Perrilloux, and Christopher Wilson.

SECTION 18

S.P. No. H.010559
Bayou Mercier Rd. over Berard Canal
Catahoula, LA
Engineer of Record: Dennis Hymel, Jr., PE

18. Approach and Methodology:

INTRODUCTION

The Crescent Engineering & Mapping (Crescent) team provides LADOTD with a combined over **80 years' of LADOTD Off-System Bridge Replacement** (OSBR) experience through its staff who have a proven record of project delivery for the OSBR program. Our staff members have **worked together for over the past decade for LADOTD's OSBR program**, surveying and preparing plans for OSBR projects involving both standard plan and non-standard structures in accordance with all LADOTD procedures and manuals including roadway and bridge design, environmental and OSBR guidelines.

Crescent's team is led by **Dennis Hymel, Jr., P.E.** and **Paul I. Olivier, P.E.**, who together have successfully delivered/led design on over **125 LADOTD bridge replacements**, including both On and Off-System bridges. Crescent's survey manager, **Matthew J. Ledet, PLS** has led the survey effort on over **80 LADOTD bridge replacements** and our QC Manager, **James "Jimmy" Ledet, PE** has been involved in the OSBR program **since 1986**. Crescent's team includes **ELOS Environmental**, who has a long history of performing environmental services for Crescent and LADOTD.

PROJECT UNDERSTANDING & SITE VISIT

Crescent visited the Little California Rd. Bridge site on 4/2/2025 to assess the project conditions and identify potential design challenges. The bridge is located on a straight section of gravel roadway with an approximate width of 17'. The site is **located within Grand Cote National Wildlife Refuge, which will require additional consultation during the Environmental clearance process**. There are no apparent geometric issues onsite, therefore, with an ADT under 400, if there is no crash history, the project will be able to be streamlined as a standard plan bridge on existing alignment. A headland road is located on the northwest quadrant of the bridge and will require special "T" intersection guardrail and a design waiver. The existing 4-span, 49' long timber bridge parallels Coulee des Grues and crosses a drainage lateral near its confluence with Coulee des Grues. A **4-span bridge with a 0° skew would be a fitting replacement structure**, depending upon hydraulics. There are alternate routes into the site which includes a 3-span concrete bridge (Recall #800096), which is not posted, and it appears the subject bridge can be closed for construction, pending approval during consultation with US Fish & Wildlife during Section 4(f) of the environmental process. The site has ditches on the south side and minimal utilities – an overhead 3-phase power distribution line is located on the north side of the bridge and crosses the roadway west of the bridge site. This line **may require partial relocation for construction clearances**.

Looking east at bridge site, roadway and overhead utilities - Site Visit (4/2/2025)

CONTRACT NEGOTIATION, LADOTD & PARISH KICKOFF MEETING

After selection, Crescent will meet with the OSBR Program Manager and team to discuss the project and kickoff contract negotiations. A draft template of tasks for manhours will be supplied at this meeting. Crescent has much experience negotiating projects of this type with LADOTD, which will result in a **quick and seamless contract negotiation process**. Following the NTP, Crescent will meet with the OSBR Program Manager and staff to discuss the project, review the schedule, receive LADOTD field books, review the new program milestones, invoice requirements, and establish communication protocols. Our project schedule will be based on critical path items with concurrent items being utilized to **expedite project delivery. Crescent recently completed an OSBR project for LADOTD in just 13 months from survey to letting.**

18. Approach and Methodology:

Crescent will also meet with **Avoyelles Parish** representatives prior to the start of topographic surveys as required by the OSBR Guidelines. Crescent's staff have **previously delivered OSBR projects in Avoyelles Parish** and is familiar with their requirements. Additional items such as planned corridor improvements, hydraulics, structure preferences and corridor users will be discussed. Previous 5-years crash history will also be requested at this meeting. Meeting minutes for both meetings will be provided within 3 days of the meeting for review.

Crescent Engineering & Mapping ADVANTAGE

Crescent owns the latest in Trimble® Survey equipment, operated by our in-house survey crews for roadway and bridge projects. Providing surveys in-house allows for seamless coordination and communication of survey needs directly from our engineering staff to the field. Additionally, in-house survey services allow for immediate deployment of survey crews and near instantaneous data review, eliminating missing data and ensuring the most expedient project delivery. Lastly, should additional data be required during design, these services can be immediately performed, eliminating costly delays caused by subconsultant coordination.

TOPOGRAPHIC & PROPERTY SURVEYS (Stage 3, Part I a-b)

Crescent will perform the topographic and property surveys for the project. Providing the **topographic and property surveys in-house** offers a distinct advantage for scheduling and delivery of these services. Crescent's engineering staff works closely with survey staff during this phase to ensure that all required data is collected. Surveys will be completed in accordance with LADOTD Off-System Bridge Guidelines and Location & Survey requirements. GPS control will be established using at minimum four (4) control points set in concrete with digital levels run between these points.

Once control is established and sketches complete, the topographic surveys will continue for the existing roadway, bridge, and channel/river. Surveys will be extended beyond traditional limits to incorporate any curves or additional geometric changes needed for design. Additional data points needed to show .DTM break lines and surface anomalies will be collected, and any upstream structures in the channel/river will be surveyed.

Bridge sketches will be provided and the channel/river traverses shown on the field roll. Survey data will be processed in Inroads daily and reviewed by the project's engineering staff for completeness prior to preparation of survey deliverables and field rolls. The survey submittal will include all items required by the LADOTD OSBR Guidelines including photographs, point listing and plotted cross sections. Surveys will undergo extensive QC/QA by both the survey and engineering teams prior to submittal to LADOTD and will meet all LADOTD deliverable standards for electronic plans and will be accompanied by the surveyor's transmittal and design engineer's acceptance letters.

While Title Take Offs and Property Surveys may be new to the OSBR program, Crescent's staff are well versed in providing these services for LADOTD. Title Take Off data searches will be conducted prior to survey crew mobilization in order to gather parcel data and enable survey crews to locate potential property monuments and **complete the property survey field work concurrent with the topographic surveys**. This provides the designer with R/W and parcel information early in design, potentially mitigating R/W takings, or, confirming the need for R/W and allowing Base R/W Maps to begin earlier via Supplemental Agreement.

Crescent's survey team will prepare the Property Survey submittal in accordance with the Location and Survey Manual + Addendum A, and deliver the ASCII, PDF and DGN files to the Project Manager prior to beginning Preliminary Plans and the hydraulics analysis.

50% PRELIMINARY PLANS & HYDRAULICS ANALYSIS

After surveys are reviewed and approved by LADOTD, Crescent will begin the hydraulics analysis and preparation of 50% Preliminary Plans.

Design Criteria

Little California Rd. is a local route with a posted speed of 25 MPH and a varying gravel width of 17'-19' near the bridge site. The existing corridor has an approximate ADT of 100 (NBI data) and an approx. 60' wide R/W. Traffic counts and crash history at the site will be the primary factors in determining if roadway cross-sectional elements will require improvement from existing conditions. If allowed, Design Exceptions or Waivers may minimize the project footprint and eliminate R/W takings. If no improvements are needed, **the project is a great candidate to streamline the design using standard bridge plans and minimize the project footprint**. The project site has **overhead power on the north side, which may require partial relocation for construction clearances**. Special consideration to avoid impacts to these utilities should be given when designing the replacement structure.

Looking west showing driveway beyond bridge Site Visit (4/2/2025)

18. Approach and Methodology:

Upon review of supplied data, bridge design criteria and LADOTD Design Report Forms will be submitted for review and approval, guiding the remainder of plan development.

Hydraulics & Scour Analysis

Crescent will begin the hydraulics and scour analysis by reviewing additional data including topographic maps, FEMA Firm maps, USGS Quadrangle maps and LiDAR to delineate the site's drainage basin. Peak discharges and water surface elevations will be developed using a suite of software including LADOTD's HYDR1130 and GeoHECRAS. Hydraulic design will be conducted in accordance with the LADOTD Hydraulics Manual and the results prepared in report format along with the Hydraulic Data table.

Bridge TS&L

The bridge Type, Size and Location (TS&L), which will determine the appropriate bridge length, revetment slopes and hydraulic opening will be developed at the start of the hydraulics analysis. The replacement structure itself is **not anticipated to require any special design elements** except for a **special "T" intersection guardrail or similar detail** for the northwest quadrant due to the existing headland roadway near the bridge. **If the project includes a non-standard bridge design, Crescent has ample experience to perform the design of these elements in-house** per LADOTD BDEM and AASHTO requirements as well as conduct the Load Ratings using AASHTOWare BrR 7.6.

50% Preliminary Plans

Once hydraulics is completed, the remainder of the 50% PP will be developed including the roadway horizontal and vertical geometry, guardrail and embankment widening, roadside drainage, cross-sectional geometrics and transitions. The roadway will be modeled in Bentley® Inroads to determine the limits of construction at this early stage and potential R/W takings, if any. Plans will be developed in accordance with LADOTD plan preparation and OSBR Guidelines. If Design Exceptions or Waivers are needed, Draft forms will be completed upon structure approval and submitted for review by DOTD and/or the Parish. A Safety Analysis will be included in all Design Exceptions.

Crescent uses all **LADOTD** approved software including: *Microstation/Inroads, Open Roads Designer, ProjectWise, Interplot Organizer, CADConform, BlueBeam Revu.*

75% PRELIMINARY PLANS (PRE-PIH) & SOLICITATION OF VIEWS (SOV's)

After review of the 50% Preliminary Plans, Crescent will address all comments, and if necessary, will prepare the Pre-PIH plans. **Crescent's recent OSBR projects have had few comments and proceeded to Plan in Hand without the submittal of Pre-PIH plans, expediting project delivery.** Upon approval of the replacement structure, Crescent and ELOS Environmental will prepare the Solicitation of Views (SOVs), receive DOTD approval thereof and mail these to the recipient list provided by LADOTD Environmental Section. Responses will be logged and loops closed to all SOV responses. If R/W will be needed, negotiations for Base and Final R/W maps can be initiated after structure approval or once R/W takings and parcels affected are known.

95% PRELIMINARY PLANS (PLAN IN HAND)

Comments from the 50% PP or, 75% PP (if necessary) will be addressed in the Plan in Hand submittal. The roadway model, typical sections, plan & profiles, general notes, bridge GPE, summary of estimated quantities, and construction signing will continue to be developed from the previous plan submittal(s). If superelevation is required, the superelevation diagrams will be further developed and completed by the end of preliminary plans along with the foundation layouts. Standard Plan lists, cost estimate and the Constructability & Biddability Review form will be provided. Crescent will attend the Plan in Hand meeting onsite with LADOTD and Parish representatives. Meeting notes will be provided within three (3) days.

Crescent Engineering & Mapping ADVANTAGE

- ✓ Extreme familiarity with OSBR Program
- ✓ Extensive history with LADOTD
- ✓ Open Roads transition ready
- ✓ In-house survey resources
- ✓ Commitment to LADOTD Processes
- ✓ Project Specific QC/QA Manager

60% BASE & FINAL R/W MAPS

If R/W acquisition will be required, Crescent will begin the 60% Base R/W Maps using the limits of construction and taking lines from the latest set of preliminary plans. 60% Base Maps will be developed in accordance with the Location and Survey Manual + Addendum A and will be scheduled to be submitted along with the 100% Preliminary Plans due to the early development of the Property Survey. Crescent will attend the Joint Plan Review (JPR) meeting and will update the maps as necessary to coincide with the construction drawings. Upon receiving the Title Reports (or updates), the Final R/W Maps will be prepared and sealed by Crescent's Professional Land Surveyor and the Draft R/W Agreements sent to the OSBR Program Manager. **By producing the topographic survey, property survey and R/W maps all in-house, Crescent eliminates third party involvement, providing seamless project delivery, and expediting the R/W mapping process to completion early in Final Plans.**

100% PRELIMINARY PLANS (POST PLAN IN HAND PRINTS)

Plan development will continue to progress as comments are addressed and major design elements are completed. Items discussed at the PIH meeting will be addressed and added to the plans per the PIH Meeting Memorandum.

18. Approach and Methodology:

Environmental

The wetland delineation will be conducted onsite and a wetland findings report prepared in accordance with US Army Corps of Engineers (USACE) guidelines. A Preliminary Jurisdictional Determination (PJD) will be requested from the USACE upon report completion. Permit sketches sized 8.5"x11" will be prepared to accompany the wetlands report, SOV packet, and Environmental Determination Checklist. ELOS Environmental is also available to assist with additional consultation as needed including Cultural Resources and **Tri-Colored Bat Species, on which ELOS has been recently trained in technology used to identify** this newly endangered species.

Other Documents

A draft utility conflict matrix will be provided to the Parish to aide in their responsibility to relocate utilities. In addition to the 100% Preliminary Plans and environmental package, the Design Report forms will be finalized and sealed by Crescent's Engineer of Record. The Level 1 or Level 2 TMP checklists will also be prepared and submitted. Pile length requests with all supporting documentation will be submitted at this stage for use by the geotechnical engineer.

60% FINAL PLANS (PRE-ADVANCED CHECK PRINTS)

Following the environmental approval and receipt of the NTP for Final Plans, Crescent will immediately begin the development of additional plan sheets required including embankment widening details, geometric layout (if necessary), erosion control plans, quantity summary sheets, Pile Data & Elevation, and concrete surface finish. All bridge structure and pile elevations will be finalized. Any special design superstructure or substructure bridge elements or special approach slabs will be fully detailed and placed on bridge sheets. Bridge railing, joint and bearing details will also be completed. If a non-standard structure is chosen for the site, a draft of the bridge calculations and Load Resistance and Factor Rating (LRFR) will be prepared at this stage to ensure adequacy of reviews.

95% & 98% FINAL PLANS (ADVANCED CHECK PRINTS)

Comments from the 60% Final Plans (Pre-ACP) will be reviewed with LADOTD and addressed. Additional details, notes or changes will be added to the plans and quantities will be completed. The ACP Plans will be provided to the Plan Quality Unit (PQU), if necessary. Crescent has received very few comments from DOTD on recent OSBR projects. An ACP review meeting will be held to ensure all comments are addressed. Upon resolution, a 98% Final Plan set will be prepared for review by the Chief Engineer and use by General Files to prepare the proposal. Crescent will work with LADOTD staff to input pay items and quantities into AASHTOWARE and generate final cost estimates.

100% FINAL PLANS (TRACINGS)

Crescent will provide the 100% Final Plans (Tracings) as per OSBR Guidelines with the Title Sheet on Mylar for Chief Engineer signature. This submittal will be prepared once all comments are addressed from task managers, PQU and/or the Chief Engineer. Parish granted Design Exceptions will be noted on the Title Sheet. A bound calculations book will be prepared and submitted with the original field books and an electronic copy of the Hydraulics Report.

QUALITY CONTROL AND QUALITY ASSURANCE (QC/QA)

A project specific QC/QA plan has been included Section 21. Proper QC/QA is a critical component of any successful bridge project and Crescent has designated a QC/QA manager for the project, **James "Jimmy" Ledet, PE, with 45 years of experience** involving LADOTD projects and specifically Off-System Bridges. Each submittal will be accompanied by LADOTD QC/QA certification forms. Design and plan comments, along with their resolutions will be documented in Crescent's Design Comment Review forms.

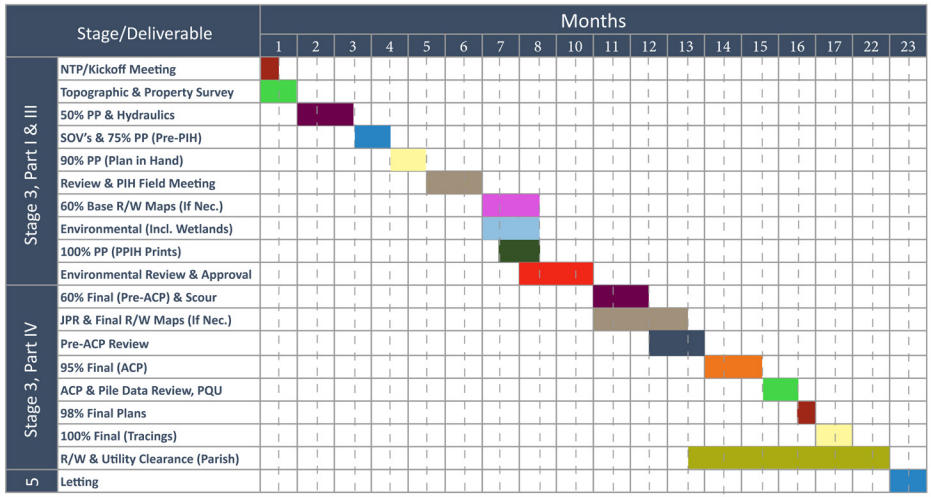
LETTING

Crescent will respond to Falcon questions and assist LADOTD during letting. Upon receiving the bid results and tabulations, Crescent will provide additional information to LADOTD as needed regarding contract award, etc.

STAGE 5: CONSTRUCTION

Crescent's staff will be available to provide LADOTD with Construction Support (if necessary) by assisting with RFI's, reviewing shop drawings, evaluating contractor submittals, attending meetings, and providing design review assistance in the event of bridge component changes during construction such as bent modifications due to pile misalignment.

PROPOSED PROJECT SCHEDULE



SECTION 19–23

S.P. No. H.006147
Tiger Drive Bridge over Bayou Lafourche
Thibodaux, LA
Engineer of Record: James P. Ledet, PE, F. ACEC

19. Workload:

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

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

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

Firm(s)	Discipline(s) *	Contract Number and State project number	Project name	Remaining Unpaid Balance**
Crescent Engineering & Mapping, LLC	Road	44-24591; H.014992	McHugh Road Over Brushy Bayou	$2,323
Crescent Engineering & Mapping, LLC	Bridge	44-24591; H.014992	McHugh Road Over Brushy Bayou	$3,645
Crescent Engineering & Mapping, LLC	Planning	44-27180; H.016012	Transportation Alternatives Program (T.O. #1)	$361
Crescent Engineering & Mapping, LLC	Road	44-25035; H.014984	Libuse Cutoff Road Over Flagon Bayou	$7,073
Crescent Engineering & Mapping, LLC	Bridge	44-25035; H.014984	Libuse Cutoff Road Over Flagon Bayou	$10,610
Crescent Engineering & Mapping, LLC	Road	44-28434; H.015568	LA 44: Pelican Point Roundabout and Widen	$276,610
Crescent Engineering & Mapping, LLC	Bridge	44-28434; H.015568	LA 44: Pelican Point Roundabout and Widen	$40,883
Crescent Engineering & Mapping, LLC	Survey	44-27735; H.014056	I-69 Frontage Road Connector (Stonewall Frierson)	$493,440
Crescent Engineering & Mapping, LLC	Road	44-27735; H.014056	I-69 Frontage Road Connector (Stonewall Frierson)	$379,580
Crescent Engineering & Mapping, LLC	Bridge	44-27735; H.014054	I-69 Frtg. Rd. Conn. (Ellerbe Rd. to LA 1)	$119,262
Crescent Engineering & Mapping, LLC	Road	44-24585; H.014980	Chinaberry Drive over Unnamed Coulee	$6,155
Crescent Engineering & Mapping, LLC	Bridge	44-24585; H.014980	Chinaberry Drive over Unnamed Coulee	$1,086
ELOS Environmental, LLC	Environmental	44-0019337 / H.014245	LA-119 Bayou Pierre and Creek Bridges	$15
ELOS Environmental, LLC	Environmental	44-0019337 / H.014246	LA-1199 Creeks & Spring Creek	$19
ELOS Environmental, LLC	Environmental	44-0019337 / H.014247	LA-399 Creeks, Little 6 Mile Creek, Flat Branch	$45
ELOS Environmental, LLC	Environmental	44-0019337 / H.014248	LA-124 Creeks, Broke Leg Bayou, Boggy Bayou	$14
ELOS Environmental, LLC	Environmental	44-0019337 / H.014248.5	LA-124 On site Detours - Supplemental Task Order	$308
ELOS Environmental, LLC	Environmental	44-0019337 / H.014249	LA-126 Creek	$849
ELOS Environmental, LLC	Environmental	44-0019337 / H.014242.5	LA-124 Bridges/Detours – Supplemental Task Order	$21,473

19. Workload:

Firm(s)	Discipline(s) *	Contract Number and State project number	Project name	Remaining Unpaid Balance**
ELOS Environmental, LLC	Environmental	44-0019337 / H.014250	LA-577 Bull Bayou and Creek Bridges	$38
ELOS Environmental, LLC	Environmental	44-0019337 / H.014268	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek Relief	$30
ELOS Environmental, LLC	Environmental	44-0019337 / H.014268.5	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek Relief – Additional Tasks	$398
ELOS Environmental, LLC	Environmental	44-0027734 / H.014362	Lake Road in St. Tammany Parish	$22,877
ELOS Environmental, LLC	Environmental	44-0025041 / H.015429	Carroll Ave, Middle Colyell Creek - IIJA Off-System Bridges District 62	$61
ELOS Environmental, LLC	Environmental	44-0025041 / H.015430	Hood Rd, Middle Colyell Creek - IIJA Off-System Bridges District 62	$51
ELOS Environmental, LLC	Environmental	44-0025041 / H.015431	Sawmill Rd, Unnamed Creek - IIJA Off-System Bridges District 62	$53
ELOS Environmental, LLC	Environmental	44-0025041 / H.015432	M. Williams Rd, Spring Creek - IIJA Off-System Bridges District 62	$53
ELOS Environmental, LLC	Environmental	44-0025041 / H.015433	George Jenkins Rd, Berrys Creek - IIJA Off-System Bridges District 62	$64
ELOS Environmental, LLC	Environmental	44-0025041 / H.015434	Mitch Rd, Peters Creek - IIJA Off-System Bridges District 62	$49
ELOS Environmental, LLC	Environmental	44-0021326	DOTD Stage 0 IDIQ-LA 3089 Serve Rd/LA 70 Up	$2,760

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Dennis Hymel

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Louisiana Department of Transportation & Development

Date: January 12-14, 2021 *Hours of Instruction:* 18

Location: Virtual Delivery, LA

Digitally signed by John P. Bogus, P.E. Date: 2021.01.14 18:52:17 -05'00'

Instructor

Allison H. Landry
Local Coordinator

Digitally signed by Caslen A. MacDougall, P.E. Date: 2021.01.15 14:38:43 -05'00'

Instructor

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Dennis Hymel

has participated in

NHI Course No. FHWA-NHI-134006A

Introduction to Utility Coordination for Highway Projects

hosted by

National Highway Institute

Location: *Web-Based Course* ***Hours of Instruction:*** *4 hours*

Date: *4/1/2019*

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

ZEN

OPENROADS FUNDAMENTALS

CERTIFICATION OF COMPLETION

THIS OFFICIALLY CERTIFIES THAT

DENNIS HYMEL, Jr.

HAS SUCCESSFULLY COMPLETED THE OPENROADS FUNDAMENTALS CLASS STARTING ON THE 12TH OF JULY 2021 AND ENDING ON THE 16TH OF JULY 2021 AND HAS EARNED 24 PROFESSIONAL DEVELOPMENT HOURS

ZEN CERTIFIED

by Karl Dauber
(Zen Engineering Instructor)

U.S. Department of Transportation
Federal Highway Administration

nhi national highway institute

CERTIFICATE OF TRAINING

Dennis Hymel, Jr.

has participated in

NHI Course No. FHWA-NHI-135086

Stream Stability Factors and Concepts (Prerequisite) WEB-BASED

Hosted by: **National Highway Institute**

Location: *Web-Based Course* ***Hours of Instruction:*** *1 hours*

Date: *12/29/2022*

Thomas Harman
Thomas Harman, Director
National Highway Institute

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Qualification Core Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
And
The Federal Highway Administration

TO CERTIFY THAT

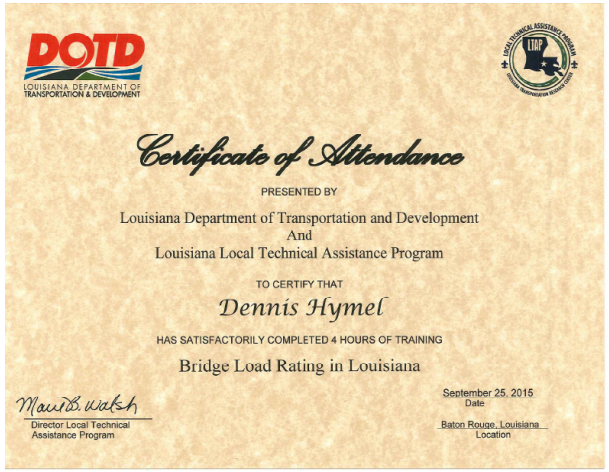
Dennis Hymel

HAS SATISFACTORILY COMPLETED 5 HOURS OF TRAINING

October 30, 2012
Date

Director of Local Public Agency Program

Houma, Louisiana
Location



DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

PRESENTED BY

Louisiana Department of Transportation and Development
And
Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Dennis Hymel

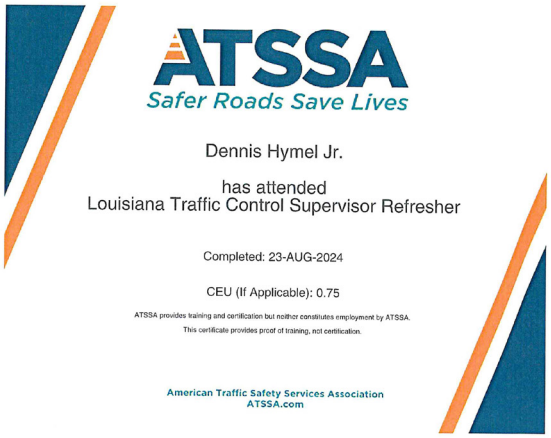
HAS SATISFACTORILY COMPLETED 4 HOURS OF TRAINING

Bridge Load Rating in Louisiana

September 25, 2015
Date

Director Local Technical Assistance Program

Baton Rouge, Louisiana
Location



ATSSA
Safer Roads Save Lives

Dennis Hymel Jr.

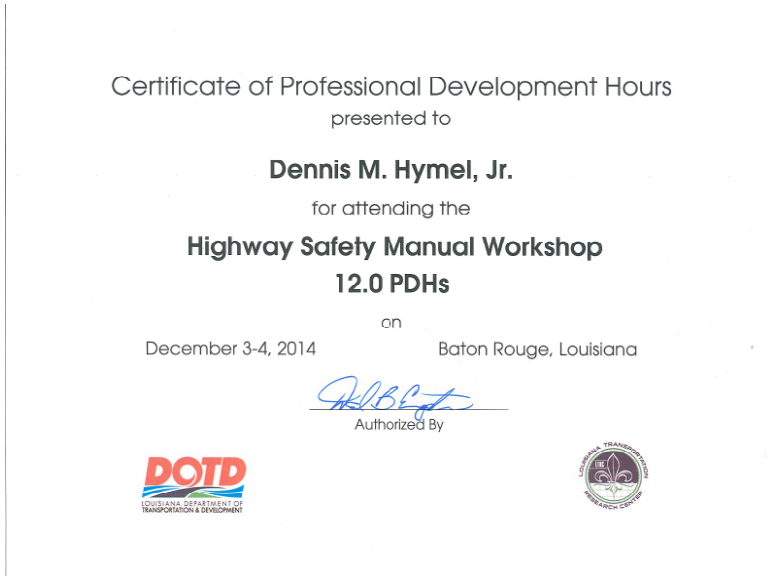
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 23-AUG-2024

CEU (If Applicable): 0.75

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



Certificate of Professional Development Hours

presented to

Dennis M. Hymel, Jr.

for attending the

Highway Safety Manual Workshop

12.0 PDHs

on

December 3-4, 2014 Baton Rouge, Louisiana

Authorized By

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Construction Engineering and Inspection (CE&I) Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
And
The Federal Highway Administration

TO CERTIFY THAT

Dennis Hymel, Jr.

HAS SATISFACTORILY COMPLETED 6.5 HOURS OF TRAINING

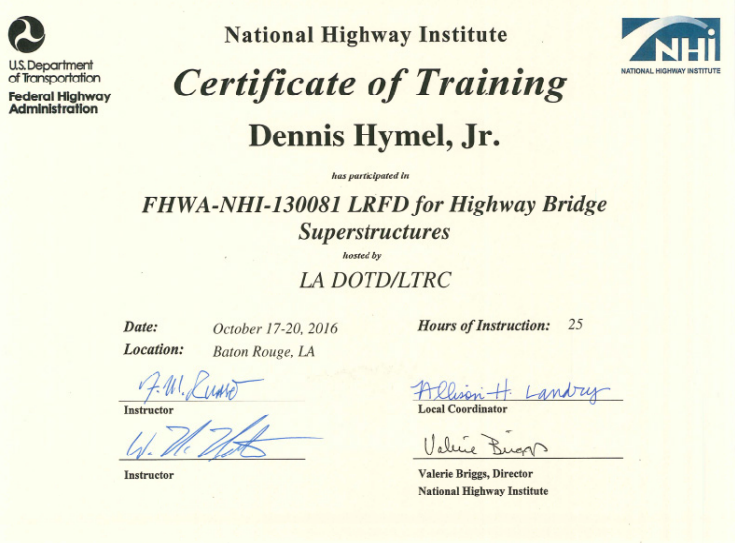
August 15, 2013
Date

Director of Local Public Agency Program

Lafayette, Louisiana
Location

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dennis Hymel, Jr.

has participated in

FHWA-NHI-130081 LRFD for Highway Bridge Superstructures

hosted by

LA DOTD/LTRC

Date: *October 17-20, 2016* ***Hours of Instruction:*** *25*

Location: *Baton Rouge, LA*

Instructor — Local Coordinator

Instructor — Valerie Briggs, Director, National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

DENNIS HYMEL

has participated in

FHWA-NHI-380096 Modern Roundabouts: Intersections Designed for Safety

hosted by

LA DOTD/LTRC

Date: *July 11, 2017* ***Hours of Instruction:*** *6*

Location: *Baton Rouge, LA*

Instructor — Local Coordinator

Instructor — Valerie Briggs, Director, National Highway Institute

Certificate of Attendance

Dennis Hymel

has participated in

AASHTOWare Bridge Rating Fundamentals Training

hosted by

LA DOTD/LTRC

Date: August 1st-2nd, 2017 *Professional Development Hours (PDHs) Awarded:* 12

Location: Baton Rouge, Louisiana

Heman Lee, P.E., PMP, Michael Baker International

Michael S. Pichura, P.E., Michael Baker International

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

DENNIS HYMEL, JR.

has participated in

FHWA-NHI-134006 Utility Coordination for Highway Projects

hosted by

LA DOTD/LTRC

Date: *April 2-3, 2019* ***Hours of Instruction:*** *12*

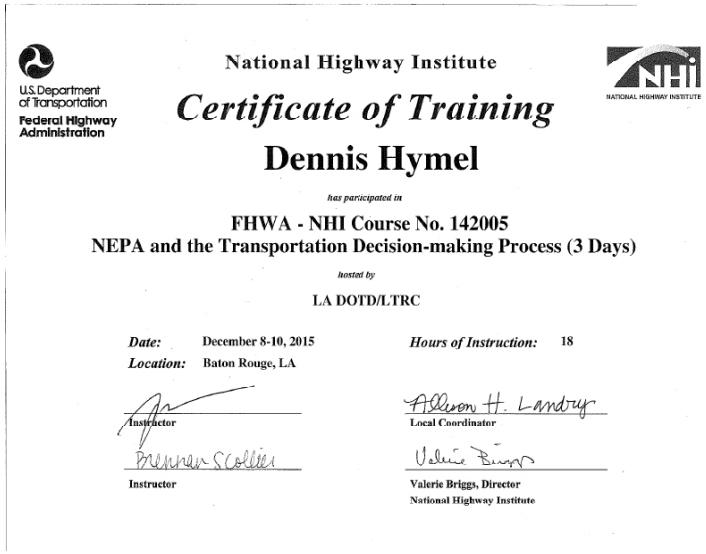
Location: *Baton Rouge, LA*

Instructor — Local Coordinator

Instructor — Michael Davies, Director, National Highway Institute

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dennis Hymel

has participated in

FHWA - NHI Course No. 142005
NEPA and the Transportation Decision-making Process (3 Days)

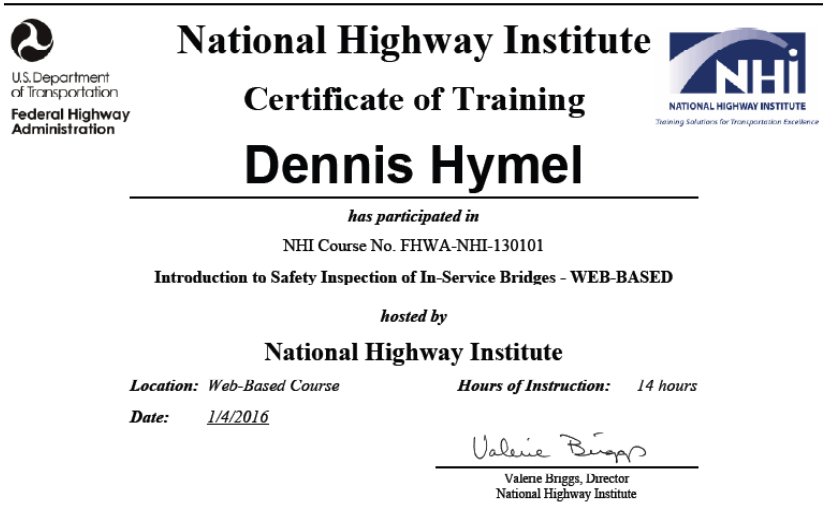
hosted by

LA DOTD/LTRC

Date: December 8-10, 2015 ***Hours of Instruction:*** 18
Location: Baton Rouge, LA

Instructor — Allison H. Landry, Local Coordinator

Instructor — Valerie Briggs, Director, National Highway Institute



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Dennis Hymel

has participated in

NHI Course No. FHWA-NHI-130101

Introduction to Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Location: *Web-Based Course* ***Hours of Instruction:*** *14 hours*

Date: *1/4/2016*

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Dennis Hymel

has participated in

NHI Course No. FHWA-NHI-130081P

General Superstructure Design Considerations (Web-based)

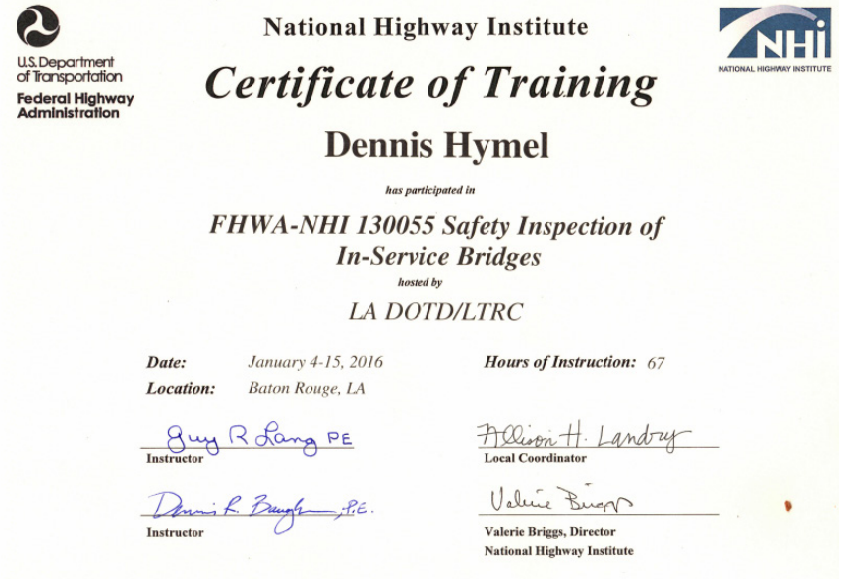
hosted by

National Highway Institute

Location: *Web-Based Course* ***Hours of Instruction:*** *3 hours*

Date: *10/12/2016*

Valerie Briggs, Director
National Highway Institute



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dennis Hymel

has participated in

FHWA-NHI 130055 Safety Inspection of In-Service Bridges

hosted by

LA DOTD/LTRC

Date: *January 4-15, 2016* ***Hours of Instruction:*** *67*
Location: *Baton Rouge, LA*

Instructor — Guy R Lang PE, Local Coordinator — Allison H. Landry

Instructor — Dennis R. Brugh, P.E., Valerie Briggs, Director, National Highway Institute

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

Concrete & Aggregates Association of Louisiana

CERTIFICATE OF COMPLETION

Is Presented To

Paul Olivier

For completion of

CONCRETE SEMINAR

including

Concrete Specifications & Mix Design
Street Design

February 20, 2014 — Thibodaux, Louisiana

This seminar has been approved for two (2) PDHs and CEUs for Engineers and Contractors

William H. Temple, Executive Director — February 20, 2014 Date

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LTAP

Certificate of Attendance

PRESENTED BY

Louisiana Department of Transportation and Development
And
Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Paul Olivier

HAS SATISFACTORILY COMPLETED 4 HOURS OF TRAINING

Bridge Load Rating in Louisiana

Director Local Technical Assistance Program

September 25, 2015 Date

Baton Rouge, Louisiana Location

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Paul Olivier
has attended
Louisiana Traffic Control Supervisor
Training Course

10/18/2023 to 10/18/2027
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.

ATSSA American Traffic Safety Services Association ATSSA.com

U.S.Department of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

PAUL OLIVIER

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: December 3-5, 2018
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Abbey Falcon
has attended
Louisiana Traffic Control Supervisor
Training Course

11/8/2023 to 11/8/2027
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.

ATSSA American Traffic Safety Services Association ATSSA.com

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

DEPARTMENT OF TRANSPORTATION UNITED STATES OF AMERICA

LOUISIANA LTAP LOCAL TECHNICAL ASSISTANCE PROGRAM

Certificate of Attendance

Local Public Agency Qualification Program
LPA Qualification Core Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
&
The Federal Highway Administration

TO CERTIFY THAT

Abbey Falcon

HAS SATISFACTORILY COMPLETED 13 PROFESSIONAL DEVELOPMENT HOURS

Rudynah Capone
Rudynah Capone Director, LTAP

July 10 - 11 2024
Date

Covington, Louisiana
Location

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Tyler Amedee
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

10/20/2023 to 10/20/2027
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.

ATSSA American Traffic Safety Services Association ATSSA.com

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

Certificate of Attendance

Megan Miller

has participated in

AASHTOWare Bridge Rating Fundamentals Training

hosted by

LA DOTD/LTRC

Date: August 1st-2nd, 2017
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 12

Herman Lee, P.E., PMP
Michael Baker International

Michael S. Pichura, P.E.
Michael Baker International

Concrete & Aggregates Association of Louisiana

CERTIFICATE OF COMPLETION

Is Presented To

Megan Miller

For completion of

Dense Concrete:
Managing Specifications for Structural Concrete

May 4, 2017 *Baton Rouge, Louisiana*

This seminar has been approved for three (3) PDHs and CEUs for Engineers and Contractors

William H. Temple, Executive Director

May 4, 2017
Date

U.S. Department of Transportation
Federal Highway Administration

national highway institute

Certificate of Training

Megan Miller

has successfully completed

Introduction to FRP Materials and Applications for Concrete Structures

Date: 07/30/2024

Continuing Education Units: 0.3

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

national highway institute

CERTIFICATE OF TRAINING

Megan Miller

has participated in

NHI Course No. FHWA-NHI-130081C

LRFD Design of Common Bridge Elements: Decks and Bearings

Hosted by: **National Highway Institute**

Location: *Web-Based Course*
Date: *7/24/2024*

Hours of Instruction: *3 hours*

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

U.S. Department of Transportation
Federal Highway Administration

nhi national highway institute

CERTIFICATE OF TRAINING

Megan Miller

has participated in

NHI Course No. FHWA-NHI-130081D

LRFD Steel I-Girder Details Design

Hosted by: **National Highway Institute**

Location: *Web-Based Course* ***Hours of Instruction:*** *4 hours*

Date: *7/29/2024*

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

nhi national highway institute

CERTIFICATE OF TRAINING

Megan Miller

has participated in

NHI Course No. FHWA-NHI-130081E

Prestressed Concrete Girder Topics

Hosted by: **National Highway Institute**

Location: *Web-Based Course* ***Hours of Instruction:*** *2 hours*

Date: *7/29/2024*

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Megan Miller

has participated in

NHI Course No. FHWA-NHI-130101

Introduction to Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Location: *Web-Based Course* ***Hours of Instruction:*** *14 hours*

Date: *3/26/2019*

Valerie Briggs

Valerie Briggs, Director
National Highway Institute

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Luke Bourg
has attended
Louisiana Traffic Control Supervisor
Training Course

10/18/2023 to 10/18/2027
Training Valid Through

New Orleans, LA
Location

Vice President of Education and Technical Services

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA
Safer Roads Save Lives

Miles Loker

has attended
Louisiana Traffic Control Technician

Completed: 30-JUL-2024

CEU (If Applicable): 0.75

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

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Luke Bourg
has attended
Louisiana Traffic Control Technician
Training Course

10/17/2023 to 10/17/2027
Training Valid Through

New Orleans, LA
Location

Vice President of Education and Technical Services

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA
Safer Roads Save Lives

Miles Loker

has attended
Louisiana Traffic Control Supervisor

Completed: 01-AUG-2024

CEU (If Applicable): 1.5

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

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

ATSSA
Safer Roads Save Lives

Joseph Mavrin

has attended
Louisiana Traffic Control Technician

Completed: 30-JUL-2024

CEU (If Applicable): 0.75

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

ATSSA
Safer Roads Save Lives

Joseph Maurin

has attended
National Flagger Certification Training Course

Completed: 03-SEP-2024

CEU (If Applicable): 0

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

ATSSA
Safer Roads Save Lives

Joseph Mavrin

has attended
Louisiana Traffic Control Supervisor

Completed: 01-AUG-2024

CEU (If Applicable): 1.5

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

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

SMITH SYSTEM
Drive Different. Save Lives:

Certificate of Completion

Dakotah Holley — Student
01/03/2024 — Date

This certifies that this participant has successfully completed the Smith System®
Core Content: The 5Keys to Forward Motion and Reversing - Small Vehicle eLearning Course

Certificate #: 1326430

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Dakotah Holley
has attended
Traffic Control Supervisor-LA State Specific
Training Course

8/3/2022 to 8/3/2026
Training Valid Through

Baton Rouge, LA
Location

Director of Training
President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Dakotah Holley
has attended
Traffic Control Technician-LA State Specific
Training Course

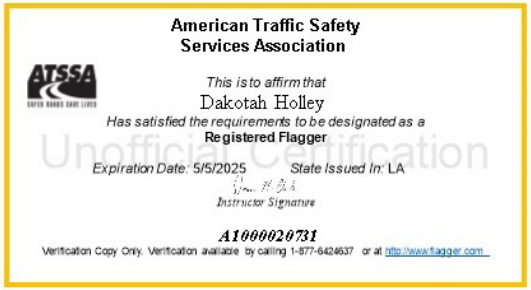
8/2/2022 to 8/2/2026
Training Valid Through

Baton Rouge, LA
Location

Director of Training
President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com



American Traffic Safety Services Association

ATSSA

This is to affirm that
Dakotah Holley
Has satisfied the requirements to be designated as a
Registered Flagger

Expiration Date: 5/5/2025 *State Issued In:* LA

Instructor Signature

A1000020731

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

20. Certifications/Licenses:

CRESCENT
ENGINEERING & MAPPING LLC

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Matt Ledet
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

5/10/2021 to 5/10/2025
Training Valid Through

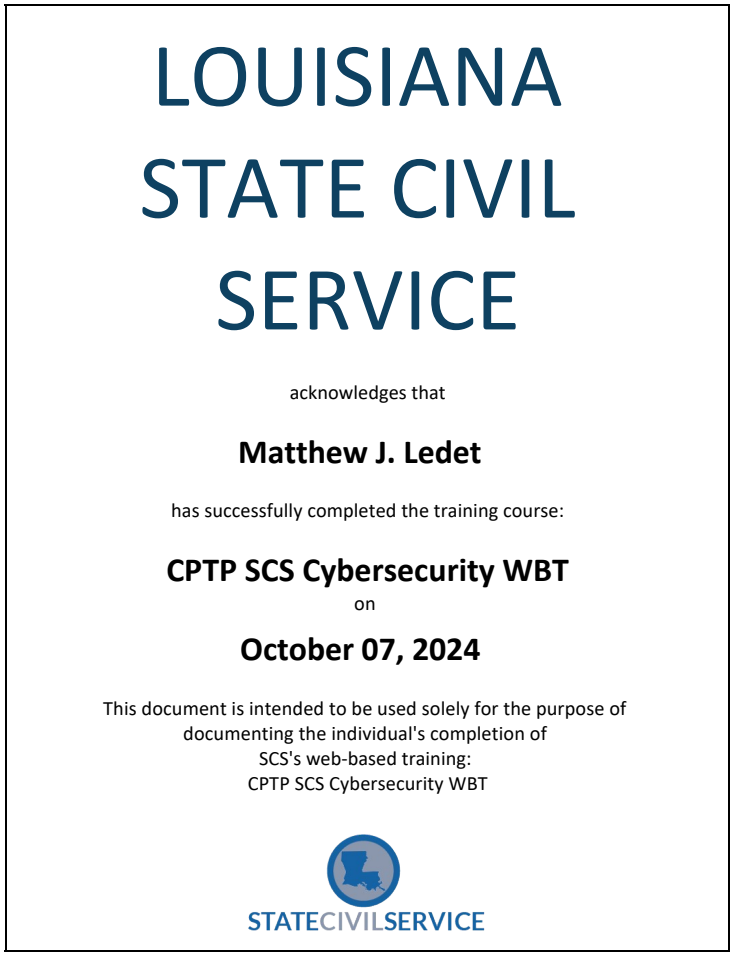
Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com



LOUISIANA STATE CIVIL SERVICE

acknowledges that

Matthew J. Ledet

has successfully completed the training course:

CPTP SCS Cybersecurity WBT
on
October 07, 2024

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

STATECIVILSERVICE

20. Certifications/Licenses:

ELOS environmental

National Highway Institute

Certificate of Training

Lucas Watkins

has participated in

FHWA - NHI Course No. 142005

NEPA and the Transportation Decision-making Process (3 Days)

hosted by

LA DOTD/LTRC

Date: December 8-10, 2015 *Hours of Instruction:* 18

Location: Baton Rouge, LA

Instructor — Allison H. Landry, Local Coordinator

Instructor — Valerie Briggs, Director, National Highway Institute

National Highway Institute

Certificate of Training

Lucas Watkins

has participated in

NHI Course No. FHWA-NHI-142052

Introduction to NEPA and Transportation Decisionmaking - WEB-BASED

hosted by

National Highway Institute

Location: Web-Based Course *Hours of Instruction:* 4 hours

Date: 4/15/2015

Valerie Briggs, Director
National Highway Institute

Certificate of Completion

TEXAS A&M SYSTEM

This is to certify that

Lucas Watkins

has completed the

40 USCOE Hour Wetland Delineation Certification Course

John S. Jacob, Ph.D.
Environmental Quality Specialist
Course
Instructor

October 26, 2007
Date Completed

Texas Cooperative EXTENSION — TEXAS COASTAL WATERSHED PROGRAM — Sea Grant Texas

Wetland Training Institute

This certifies that

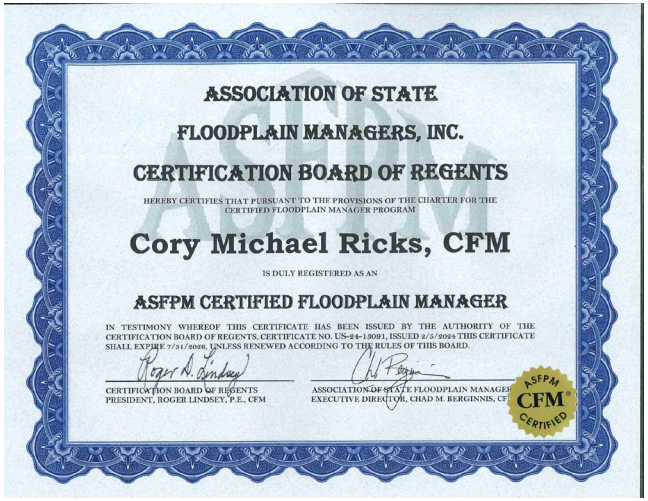
Cory Ricks

has completed training based in part on the U.S. Army Corps of Engineers Wetland Delineation Manual Technical Report Y-87-1 (1987 Manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program

Given at Covington, Louisiana

On September 11-15 (40 hours) 20 17

Course Coordinator



ASSOCIATION OF STATE FLOODPLAIN MANAGERS, INC.

CERTIFICATION BOARD OF REGENTS

HEREBY CERTIFIES THAT PURSUANT TO THE PROVISIONS OF THE CHARTER FOR THE CERTIFIED FLOODPLAIN MANAGER PROGRAM

Cory Michael Ricks, CFM

IS DULY REGISTERED AS AN

ASFPM CERTIFIED FLOODPLAIN MANAGER

IN TESTIMONY WHEREOF THIS CERTIFICATE HAS BEEN ISSUED BY THE AUTHORITY OF THE CERTIFICATION BOARD OF REGENTS, CERTIFICATE NO. US-14-13091, ISSUED 2/6/2014 THIS CERTIFICATE SHALL EXPIRE 7/31/2026, UNLESS RENEWED ACCORDING TO THE RULES OF THIS BOARD.

CERTIFICATION BOARD OF REGENTS
PRESIDENT, ROGER LINDSEY, P.E., CFM

ASSOCIATION OF STATE FLOODPLAIN MANAGERS
EXECUTIVE DIRECTOR, CHAD M. BERGINNIS, CFM

ASFPM CFM CERTIFIED

20. Certifications/Licenses:

ELOS environmental

THIS CERTIFICATE IS PRESENTED TO

Basile Dardar

For their attendance at the
Bat Acoustic Identification Workshops:

Online September 5-6, 2024

Echo 101/ Best Practices
The Acoustic ID of Eastern Bats

PRESENTED BY VESPER BAT DETECTION SERVICES

September 11,2024

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Basile Dardar
has attended
Traffic Control Technician-LA State Specific
Training Course

11/29/2022 to 11/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

FAA Aviation Safety

Certificate of Achievement

This is to certify that

Hunter Blaise Perrilloux

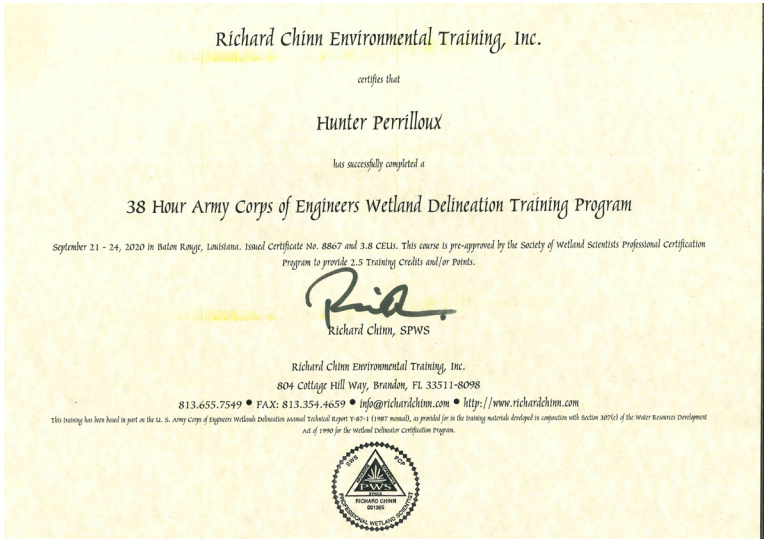
has successfully completed the
FAA Safety Team Aviation Learning Center Online Course

Part 107 Small Uas Recurrent

Course Number ALC-677
Presented by FAASTeam
October 12, 2023

Certificate Number 1475965-20231012-00677

Patricia Mathes, Manager, National FAA Safety Team



Richard Chinn Environmental Training, Inc.

certifies that

Hunter Perrilloux

has successfully completed a

38 Hour Army Corps of Engineers Wetland Delineation Training Program

September 21 - 24, 2020 in Baton Rouge, Louisiana. Issued Certificate No. 8867 and 3.8 CEUs. This course is pre-approved by the Society of Wetland Scientists Professional Certification Program to provide 2.5 Training Credits and/or Points.

Richard Chinn, SPWS

Richard Chinn Environmental Training, Inc.
804 Cottage Hill Way, Brandon, FL 33511-8098
813.655.7549 • FAX: 813.354.4659 • info@richardchinn.com • http://www.richardchinn.com

This training has been based in part on the U. S. Army Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1 (1987 manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.

20. Certifications/Licenses:

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
CRESCENT ENGINEERING & MAPPING, LLC	Limited Liability Company	VACHERIE	Active

Search for Louisiana Business Filings

Buy Certificates and Certified Copies | Subscribe to Electronic Notification | Print Detailed Record

Name	Type	City	Status
ELOS ENVIRONMENTAL, LLC	Limited Liability Company (Non-Louisiana)	WILMINGTON	Active

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

LADOTD CONTRACT No. 4400030641

S.P. No. H.015965.5

F.A.P. No. H015965

LITTLE CALIFORNIA RD OVER DRAINAGE CANAL

BRIDGE DESIGN QC/QA PLAN

"Committed to Excellence, Focused on Delivery"

April, 2025

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

Table of Contents

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

Introduction

Crescent Engineering & Mapping, LLC (Crescent) understands that proper QC/QA is vital to the success of any bridge project. When a clearly outlined, known and repeatable process is followed by a team of bridge designers and technicians, design errors are eliminated, and plan accuracy is greatly enhanced. These QA/QC procedures and guidelines have been developed to ensure that bridge design team develops and accurately confirms that the project's design and resulting drawings meet LADOTD and AASHTO criteria and are in accordance with the requirements of the Contract. LADOTD's Bridge Design and Evaluation Manual requires that the Department's Policy for Quality Control and Quality Assurance is followed for all LADOTD projects. This QC/QA plan establishes the basis for Crescent to continue to be Committed to Excellence and Focused on Delivery.

This QC/QA plan has been developed consistent with LADOTD and Crescent policies specially for:

Contract No. 4400030641
S.P. No. H.015965.5
Little California Rd over Drainage Canal

Crescent will manager design and design quality control/quality assurance program throughout the development of bridge design and production of bridge plans and specifications for this project. Our designated QC/QA manager for this project will be responsible for overseeing the overall quality program, performing independent Quality Assurance reviews as well as the preparation and implementation of the QC/QA plan. Crescent fully understands that it is the LADOTD's expectation that it's consulting engineers take full responsibility for their design and bridge plan submittals throughout the design process. We further understand that review and comments by LADOTD does not relieve Crescent of this responsibility.

This QA/QC plan has been prepared in accordance with the requirements set forth in "Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17)," FHWA, AASHTO, August 2011. Additionally, requirements of BDTM.37 and "Policy on Quality Control and Quality Assurance," Louisiana Department of Transportation and Development, Bridge Design Section, October 2012, as amended and the requirements of the LADOTD's Bridge Design and Evaluation Manual will be followed throughout the project.

Crescent has committed to this process and has dedicated resources to deliver bridge design projects for LADOTD. We strive for continuous improvement to our processes to the benefit of our team members, the clients we serve and the public as a whole. We are committed to partnering with our clients by properly planning our work efforts to achieve a repeatable, consistent and a seamless delivery of our bridge projects. Crescent is committed to continuing education, offering our employees ample opportunities to remain on the leading edge of technology, bridge modeling and design methodology improvements, changes and innovation.

Definitions

Quality Control (QC): This process involves the procedures of checking the accuracy of the calculations and consistency of the drawings, detecting and correction design omission and errors before the design plans are finalized, and verifying that bridge components are adequately designed for the requirements of the AASHTO LRFD Bridge Design Specifications, LADOTD Bridge Design and Evaluation Manual and other technical memoranda.

Quality Assurance (QA): This process involves the procedures of reviewing the work to ensure the quality control procedures and processes are in place and effective in preventing mistakes, and consistency in the development of bridge design plans.

Designer: An individual directly responsible for the development of design calculations, drawings, specifications, and contract documents and, potentially, in the review of shop drawings related to a specific bridge design with a level of technical skills and experience commensurate with the complexity of the subject structure or structures being designed. A designer shall be either a Professional Engineer licensed in the State of Louisiana or certified as an Engineer Intern under the direct supervision of a licensed Professional Engineer. The designer's experience should be commensurate with the complexity of the structure being designed.

Design Checker: An individual responsible for performing full technical review of the structural calculations, drawings, specifications and contract documents. A Design Checker shall be a Professional Engineer licensed in the State of Louisiana or certified as an Engineer Intern under the direct supervision of a licensed Professional Engineer. If the Designer is an Engineer Intern, the Design Checker should be a Professional Engineer. The checker's experience should be commensurate with the complexity of the structure being designed/checked.

Detailer: An individual responsible for the necessary Microstation/CAD duties of producing bridge design plans which reflect the designer's intentions and calculations. The Detailer shall be competent in operating Microstation/CAD software, able to read design sketches and drawings and shall communicate with the designer throughout the development of bridge design plans.

Reviewer: An individual responsible for performing QA procedures for assuring that QA/QC procedures have been performed.

Engineer of Record: A Licensed Professional Engineer responsible for all bridge structural aspects of the design of the structure including the design of all the bridge's systems and components. This individual is responsible for sealing and signing the final project plans.

QC/QA Roles and Responsibilities

The following tables outline the team members who have been selected to perform the individual QC/QA assignments for this project's bridge elements. These assignments are subject to change with comparable personnel depending upon contract execution and timeline.

Bridge Structural Design*	
Designer:	Megan M. Miller, P.E.
Design Checker:	Dennis M. Hymel, Jr., P.E.
Detailer:	Luke Bourg
Detail Checker:	Paul I. Olivier, P.E.
QA Review:	James P. Ledet, P.E.

Construction Support & Shop Drawings	
Drawing Review:	Dennis M. Hymel, PE.
Review Checker:	Abbey F. Falcon, P.E.
QA Review:	James P. Ledet, P.E.

Hydraulics Design & Scour Analysis	
Designer:	Abbey F. Falcon, P.E.
Design Checker:	Paul I. Olivier, P.E.
Detailer:	Luke Bourg
Detail Checker:	Abbey F. Falcon, P.E.
QA Review:	James P. Ledet, P.E.

Bridge Geometric Design	
Designer:	Abbey F. Falcon, PE.
Design Checker:	Paul I. Olivier, P.E.
Detailer:	Luke Bourg
Detail Checker:	Dennis M. Hymel, Jr., P.E.
QA Review:	James P. Ledet, P.E.

*For Non-Standard Structure Elements

Bridge Engineer of Record: Dennis M. Hymel, Jr., P.E.

QC/QA Manager: James P. Ledet, P.E.

QC/QA Procedures

1. CALCULATIONS

INTRODUCTION

Calculations are to be done on calculation tablet sheets for each design organization. Calculation tablets shall bear the name and address of the firm preparing the design. Calculations shall include sketches which are legible to detailers which may augment or clarify the calculations, list all assumptions, references, units, and conclusions. The calculations shall reference the specific component for which they apply and shall cite specific AASHTO codes being used for specific calculations being made.

RESPONSIBILITIES

Engineer of Record – Ensures that staff assigned to the project are capable of performing the analysis and calculations and that their experience is commensurate with the complexity of the structure or component being tasked. Responsible for direct oversight and supervision of the design of the bridge components and structure. Assembles or assigns personnel to assemble and maintain original calculations and calculation checks for the project.

Designers – Prepare all calculations in a neat and logical manner which is conducive to checking. Provide the calculations to the Checker in a timely fashion with time to properly and adequately check calculations prior to detailing.

Checkers – Thoroughly check the design calculations starting with assumptions, mandated parameters, references, given values and formulas, AASHTO codes, omissions, and correctness of arithmetic. The Checker is responsible for asking questions of the Designer in areas that are not clear or seeking technical advice if warranted for a particular element of the calculation.

QC/QA Manager – Performs independent review of the checked calculations and random audits to ensure that QC procedures are being followed for checking of calculations.

PROCEDURES

1. Identify each sheet of calculations with designer's initials, date, project name, and sheet number. Indicate portion of project being designed in the upper right corner of each sheet below the title block. For example: Bent 5 Design, Intermediate Bent Design, Span 3 Design, etc. A component of a project shall be checked promptly upon completion of calculations. Normally, design and quantity calculations are not combined.
2. The Designer shall make a copy (checking copy) of the calculation set and give to the checker. The originals shall then be placed in a designated binder or folder, in a convenient location, which can be accessed by the entire design team.
3. The checker shall fill in the checking copy headings with initials and date in red. All errors and disagreements shall be marked in red. Yellow shall be used to indicate information that has been checked is correct.
4. The checker shall promptly return the checking copy to the Designer for review. If the Designer agrees with the checker's markup then the Designer shall put a green check on red marks. When the Designer and Checker disagree, then the Engineer of Record shall resolve the dispute.
5. The Designer shall change the originals and return the originals and the checking copy to the checker for the checker's initials and date to be placed on the original.
6. The originals shall immediately be placed back into the calculation folder or binder. The checking copy shall be kept as required.

2. DRAWINGS

INTRODUCTION

Timely checking of drawings is important for efficient performance of plan producing and to minimize errors and prevent compounded error. A drawing used as a base file by several disciplines (road, bridge, hydraulics) should be checked and corrected before further additions are made; this will eliminate the need to check and correct the same items on subsequent drawings.

RESPONSIBILITIES

The Engineer of Record, with the help of the QC/QA Manager, will ensure that this procedure is implemented on all project drawings and that the check prints are assembled and available for audit for each submittal milestone during project delivery.

The Designer of the structure or the bridge element on the drawing has the primary responsibility for accuracy and adequacy. It is not intended that the Designer rely upon the checking system to complete the drawing.

The Designer of each drawing or set of drawings is responsible for making the Check Print, stamping and dating it, following that Check Print through the process, and obtaining the required sign-offs.

Checkers are responsible for checking the drawings, independent of the Designer, for accuracy and adequacy of all the information shown, including geometrics, reinforcing and quantities.

QA/QC Manager performs particular QA reviews and audits to ensure that procedures are being followed in regard to the checking of drawings.

PROCEDURES

1. As each drawing individually is completed and deemed ready for checking, the Designer signs or initials the title block of drawings, makes a Check Print copy, and affixes, numbers, and dates the Check Print stamp on the print of each drawing. This is to be done on each drawing print separately, not on the set of prints as a whole, even if the same information is put on the check print stamp.
2. The Checker checks the Check Print of the drawing for technical adequacy and conformance to any applicable standards and format, and performs specific accuracy checks required for that type of drawing. Checking activity is recorded directly on the Check Print. The Checker is responsible for ascertaining that the drawing is consistent with the corresponding calculations, and signing off that those calculations have been properly checked. In order to document the checking process, the Checker highlights in yellow on the Check Print each part checked that is found to be correct and marks in red on the Check Print corrections, additions, or deletions.

Use of Colors

Instrument	Use For	User
Yellow Highlight	Checker confirmation	Checker
Red Pen	Correction to be made	Checker
Blue Pen	Discussion Item, Design Issue	Checker
Green Pen	Concur or Alternate Resolution	Designer
Orange Highlight	Confirmation of Correction	Detailer
Pink Highlight	Verification of Corrections Made	Designer/EOR

The Checker signs and dates the Check Print stamp upon completion of the checking. The Checker completes the Design Review Form concurrently with the checking of the Check Prints in order to augment suggested corrections, provide additional information or suggestions.

In the case where no corrections, additions or deletions are found, there is no need for backchecking or further signatures on the Check Print stamp. The Check Print and original drawing, signed in the appropriate checked block, should be returned to the Designer for placement in the projects file.

3. The Designer (or designee, as Backchecker) reviews the Checker's marks on the Check Print as well as the Design Review Form with the Checker to ensure that comments are conveyed accurately and to discuss suggestions or other issues. The Designer then personally makes or supervises the update of the Drawing Original.

To document the backchecking process, the Designer:

- Check-marks in green each of the Checker's red-marked changes if in agreement that the Original should be changed and adds in green, with the concurrence of the Checker, any additional changes not picked up by the Checker.
- Crosses out in green each of the Checker's red-marked changes that both the Designer and the Checker agree should not be changed. The Backchecker should not obliterate the Checker's marks.

NOTE: The Backchecker and Checker should resolve differences encountered during the checking process so they are not repeated. If resolution cannot be achieved by the two individuals, the appropriate Design Unit Engineer or Design Manager should be requested to resolve the differences.

- Signs and dates the Check Print stamp.

4. Correction of the Drawing Original should be supervised by (or drafted by) either the Designer or Checker, since both are familiar with the changes to be made.

When making the Check Print corrections to the Drawing Original, the engineer, draftsperson, or CADD operator highlights in orange each correction as incorporated. The person correcting the drawing signs and dates the Check Prints stamp upon completion of the corrections.

5. When corrections are made by a third party (not the Designer or checker), the Check Print should be verified by the Checker or Designer to assure that the agreed-to corrections have been incorporated without error. If the corrections are not made or are erroneous, the Check Print with penciled instructions is returned to the corrector. The Verifier puts a pink check mark next to or pink highlight over the item after reviewing its incorporation on the Original Drawing.

The Verifier signs and dates the Check Print stamp, as applicable.

After the corrections have been verified the Checker initials the “checked by” block on the title block of the Drawing Original.

6. The completed original (or CADD file) is put under the control of the Engineer of Record or a designee in order to prevent further changes in the drawing that could invalidate the checking which has been done. The Engineer of Record or a designee releases the checked drawing to other disciplines to use as a baseline for their input, or to the client.

NOTE: When there is a change to a checked drawing, a new Check Print must be made to check the area that has been changed. The Check Print is stamped and labeled Check Print 2, 3, 4, etc. as applicable and attached to the previous check print(s). The checking follows the same procedure as that of the original Check Print, except that only the portions that changed are marked up as having been checked.

7. If changes mandated by the client at the final review are simple in nature, the Engineer of Record or a designee may abbreviate the checking process by noting the changes in red on a new Check Print (which should be sequentially numbered) and signing the Check Print as the Backchecker, indicating that the changes do not materially affect the design. Then the normal correcting and verifying processes should be utilized.

Exceptions to the procedural documentation of the Check Prints can be given only by the QC/QA Manager based upon the size, character and complexity of the project.

Description of Appendices:

The following review forms, checklists and certifications within the Appendices will be used during the project's QC/QA process as required by LADOTD's Bridge Design Section BDTM.37. The checklists and certification forms are included in the Appendices for reference.

Appendix A

- LADOTD Design Criteria Worksheet
- LADOTD Project Activity Log Sheet
- LADOTD Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist
- LADOTD Consultant Submittal Review Checklist
- Final Calculation Book Index Checklist

Appendix B

- Crescent Design Comment Review Forms

Appendix C

- LADOTD QA Information Package Checklist
- LADOTD QC/QA Certification
- LADOTD Consultant Submittal QC/QA Certification

The Consultant Submittal QC-QA Certification will accompany all submittals as required by the Bridge Design Section QC-QA Policy. Additional checklist(s) may be added by the QC/QA Manager based upon the scope, character and complexity of the project, should this change throughout the course of design.

Design Criteria Checklist

Design criteria for each project shall include, but not limited to, the following sections:

__ Cover Sheet

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- Revision date
- The Supervisor or Team Leader's signature and date

__ Governing Design and Construction Specifications and Other References

A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.

__ Design Assumptions and Design Exceptions

All design assumptions and design exceptions received must be included in this section along with supporting documents.

__ General Information

The general information as listed below should be included in this section:

- Bridge information (no. of bridges, bridge clear width, length, no. of lanes, lane width, shoulder width, etc.)
- Road information (roadway classifications, design speed, traffic data, etc.)
- Vertical datum
- Vertical and horizontal clearances
- Other relevant information

__ Hydraulic Design Criteria

All hydraulic design criteria (design year, design water elevations, scour depth and scour elevation, etc.) shall be included in this section and the information shall be provided by the Hydraulic Engineer.

__ Design Factors

The ductility factor ɳD, redundancy factor ɳR, and operational importance factor ɳI shall be listed in this section.

__ Design Loads

All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.

__ Limit States

All applicable limit states for this project shall be listed in this section.

__ Bridge Barrier Railing

The design criteria, types, and test levels for bridge barrier railing shall be listed in this section. Standard plans should be listed if they are utilized.

__ Guardrail

The design criteria, types, and test levels for guardrails shall be listed in this section. Standard plans should be listed if they are utilized.

__ Approach Slab

Design criteria for approach slab shall be included in this section. Standard plans should be listed if they are utilized.

__ Deck and Deck Drainage

All design criteria for deck and deck drainage design shall be included in this section. Standard plans should be listed if they are utilized.

__ Bearing

All bearing types and design criteria for each bearing type shall be included in this section. Standard plans should be listed if they are utilized.

__ Joint

All joint types and design criteria for each type shall be included in this section. Standard plans should be listed if they are utilized.

__ Superstructure

All superstructure types and design criteria for each type shall be included in this section. Standard plans should be listed if they are utilized.

__ Substructure

All substructure types and design criteria for each type shall be included in this section. Standard plans should be listed if they are utilized.

__ Piles and Drilled Shafts

All pile types, sizes, and structural design criteria shall be included in this section. Standard plans should be listed if they are utilized.

__ Geotechnical Design

All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans should be listed if they are utilized.

__ Mechanical Design

All mechanical design criteria shall be included in this section if applicable. Standard plans should be listed if they are utilized.

__ Electrical/Lighting Design

All electrical design criteria shall be included in this section if applicable. Standard plans should be listed if they are utilized.

__ As-Designed Bridge Rating Criteria

All as-designed bridge rating criteria shall be included in this section.

__ Software

All software used for design and check shall be included in this section.

APPENDIX J—PROJECT ACTIVITY LOG SHEET

Project No.:

Project Name:

Bridge Task Manager:

Date	Project Activity	Comments

APPENDIX H—CONSULTANT PROJECT BRIDGE DESIGN KICK-OFF MEETING AGENDA CHECKLIST

A kick-off meeting with the Consultant's bridge design team shall be initiated by the LADOTD Bridge Design Task Manager once the project is awarded. The meeting agenda shall include, but not be limited to, the following items:

__ Introduce LADOTD Bridge Task Manager and the Consultant's Key Team Members (The Supervisor or Team Leader and Key Designers/Design Checkers/Reviewers)

__ Discuss Consultant's Staffing Plan and Implementation of QC/QA Plan Document (The staffing plan should include names and responsibilities of the designers, detailers, checkers, reviewers, and the EOR.)

__ Determine Schedules for Project Submittals (Design Criteria, TS & I, 30%, 60%, 90%, 100% of Preliminary Plans and Final Plans, Final Calculations, etc.)

__ Share Expectations and Consultant Rating Criteria (Consultant rating will be performed for all project submittals shown on the project submittal schedule.)

__ Discuss Design Criteria

__ Discuss Budget, Supplemental Requests, Invoices, and Importance of Avoiding Claims (Staff shown on invoices will be reviewed in accordance with the staffing plan.)

APPENDIX K—CONSULTANT SUBMITTAL REVIEW CHECKLIST

Items	Submittals												
	Design Criteria	TS&L	30% PP	60% PP	90% PP	100% PP	30% FP	60% FP	90% FP	100% FP	Final Calculation Book	Plan Revisions	Change Orders
Consultant Submittal QC/QA Certification			R	R	R	R	R	R	R	R	R	R	R
Design Criteria	C												
TS&L		C											
Bridge Index			D	D	D	D	D	D	C	S			
General Notes			D	D	D	D	D	D	C	S			
Summary of Estimated Quantities			D	D	C	C	D	D	C	S			
General Plans			D	D	C	C	C	C	C	S			
Typical Sections			D	D	C	C							
Superelevation Diagram				D	D	C	C	C	C	S			
Construction Phasing Details				D	D	C	C	C	C	S			
Traffic Controls Details				D	D	C	C	C	C	S			
Foundation/Pile Layout				D	D	C	C	C	C	S			
Pile Loads/Details					D	D	D	C	C	S			
Pile Data Tables							D	D	C	S			
Bent Details							D	D	C	S			
Fender Details							D	D	C	S			
Girder Details							D	D	C	S			
Span Details							D	D	C	S			
Joint Details								D	C	S			
Bearing Details								D	C	S			
Approach Slab								D	C	S			
Guardrail Details								D	C	S			
Bridge Barrier/Railing Details								D	C	S			
Bridge Drainage Details								D	C	S			
Detour Bridge Details								D	C	S			
Revetment Details								D	C	S			
Signing/Lighting Details								D	C	S			
Year Plate								D	C	S			
Rebar Support								D	C	S			
Misc. Details								D	C	S			
Project Specific Standard Plans								D	C	S			
Electrical/Lighting Details								D	C	S			
Mechanical Details								D	C	S			
As-Built Plans								D	C	C			
Special Provisions/NS-Items							D	D	C	C			
Cost Estimate					D	D	D	D	C	C			
Final Calculations											S		
Revised Plans/Calculations												S	S

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

Final Calculation Book Checklist

The final calculation book for each project shall include, but not limited to, the following sections:

__ Cover Sheet

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- The title of "Final Calculation Book"
- The EOR's seal with signature and date

__ Final Calculation Book Check List

__ QC/QA Certifications

__ Peer Review Resolution Agreement (if peer review is performed)

__ Design Criteria

__ Final Hydraulic Analysis Report from Hydraulic Engineer

__ Final Geotechnical Analysis Report from Geotechnical Engineer

__ Superstructure Design Calculations

__ Substructure Design Calculations

__ Quantity Calculations

__ Special Provisions/NS-Items

__ Construction Cost Estimate

__ As-Designed Rating Report

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

Consultants shall submit the final calculation book to LADOTD bridge task managers; the submittal shall be on a CD or Flash Drive or placed to a designated ProjectWise folder and include the following information:

__ A PDF File of the Calculation Book

__ All Electronic Design Files

__ A PDF File of the As-Designed Rating Report Only

QC/QA REVIEW COMMENT SUMMARY AND RESOLUTION SHEET			RESPONSE CODE
Project Name: XXX	CRESCENT ENGINEERING & MAPPING LLC	Date: XXXXX	1. Concur / Accept comment 2. Non-Concur / Disagree with comment 3. Conflicts with previous directive 4. For Information Only 5. Clarify or discussion required 6. Delete comment 7. Resolution of comment in next phase 8. See additional comment
Project Number: H.0XXXX	Engineer: Dennis Hymel, Jr., P.E.		
Submittal: 60% Preliminary	Reviewer: XXX	Page: 1 of 1	

- GENERAL USE (THIS SECTION)

Item No.	Date	(1)Source	Reviewer Comments	(2)Code	(2)Date	(3)Responses	(4)Final Resolution	
							Code	Date
1	8/31	2a	Revise typical section to include X.	1	9/10	Will Incorporate.	1	9/15

If no comment, write "NO COMMENT"	Signature of Reviewer	Agency/Company Sign-off

(1) Indicates the document / model , or use "G" for General Comment
(2) Design Firm/Agency response code & date to reviewer comment
(3) Design Firm/Agency response to reviewer comment
(4) To be filled out during back check / subsequent meeting/discussion

QA Information Package Checklist

Project No.:

Project Description:

_____ Calculation Book

_____ Plans

_____ Special Provisions

_____ Cost Estimate

_____ Other Documents _____

QC/QA Certification

Project No.:

Project Name:

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

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotechnical Engineer						
Hydraulic Engineer						
EOR						

Consultant Submittal QC/QA Certification

Project No.:

Project Name:

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and LADOTD Bridge Design Section policy on QC/QA and the information presented is accurate and meets the requirements of this submittal. All CAD drawings meet LADOTD CAD standards.

_____

Submittal Description

_____	_____	_____
Supervisor or Team Leader Name	Signature	Date

22. Sub-consultant information:

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
ELOS Environmental, LLC	607 W. Morris Avenue Hammond, LA 70403	Lucas Watkins lwatkins@elosenv.com	985-662-5501

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.

CRESCENT

ENGINEERING & MAPPING LLC

“Committed to Excellence, Focused on Delivery”

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