LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

STATEMENT OF QUALIFICATIONS

Engineering and Related Services

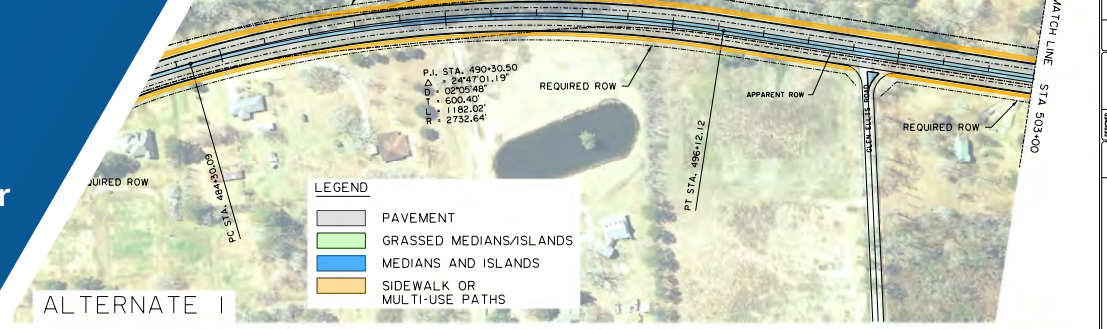
CONTRACT NO. 4400024641
IDIQ Contract for LA 447 Corridor

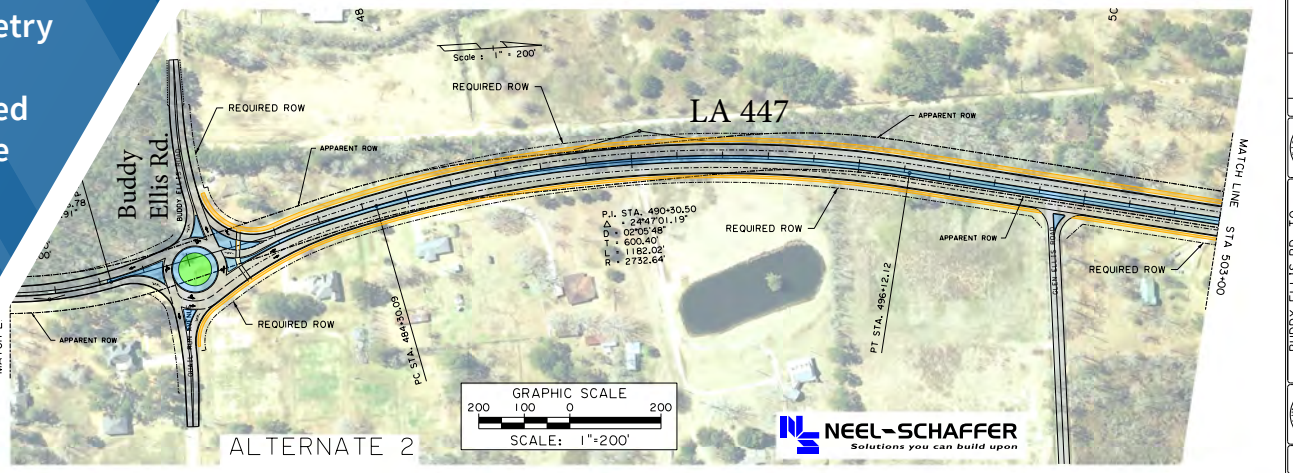
July 19, 2022

Project Manager
Dishili Young, PE, PTOE
dishili.young@neel-schaffer.com
225.614.2816

NEEL-SCHAFFER
Solutions you can build upon

Neel-Schaffer, Inc. (NSI) has project specific experience for this LA 447 corridor project. NSI was responsible for the development of the geometry utilized as a base for this project. We have team members who assisted with portions of the roadway design for the geometry in the LA 447 EA. We have already identified challenges along the corridor and are prepared to offer solutions. If selected, we will leverage our staff and firm experience to streamline project execution while providing the most efficient use of tax payers funds.





Sections 1-11

CONTRACT NO. 4400024641
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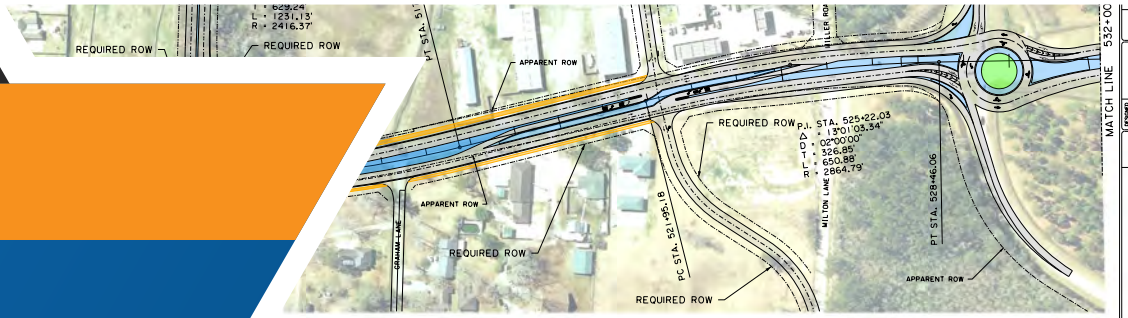
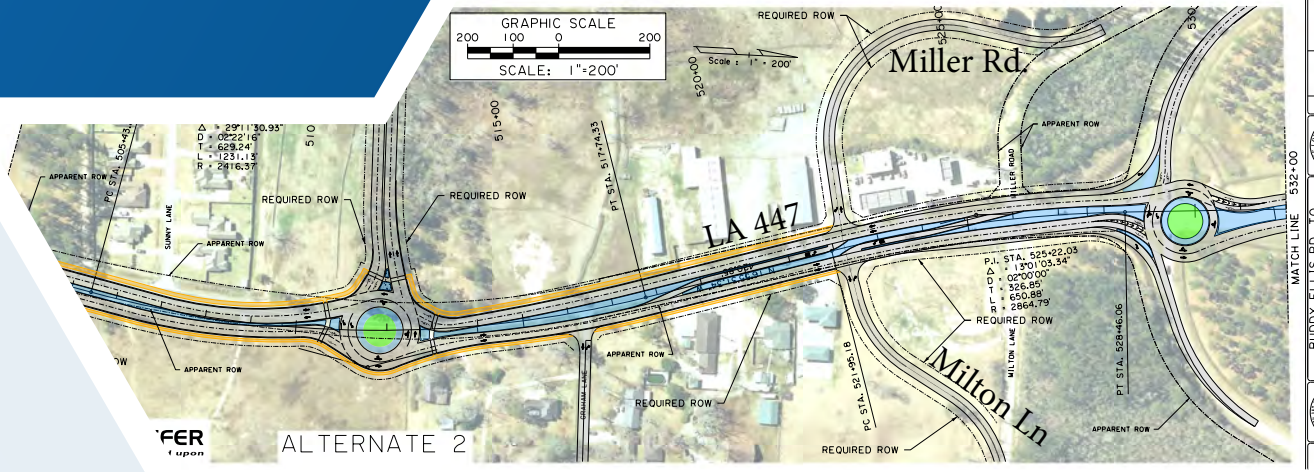




For project specific solutions and examples of knowledge within the corridor see our approach section.

DOTD FORM: 24-102

(Revised March 1, 2022)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

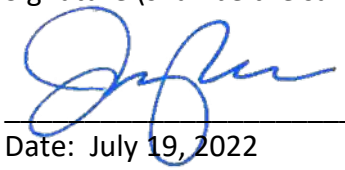
Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

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

1. Contract title as shown in the advertisement	**LA 447 Corridor**
2. Contract number(s) as shown in the advertisement	Contract No. 4400024641
3. State Project Number(s), if shown in the advertisement	State Project No. H.005734
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	NEEL-SCHAFFER Solutions you can build upon
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0001372
6. Prime consultant mailing address	10000 Perkins Rowe Suite G360 Baton Rouge, LA 70810
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	10000 Perkins Rowe Suite G360 Baton Rouge, LA 70810
8. Name, title, phone number, and email address of prime consultant's contract point of contact	**Dishili Young, PE, PTOE** *Senior Project Manager* 225-614-2816 Dishili.young@neel-schaffer.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	**Jerry Trumps** *Executive Vice President* Southwest Region 337-232-6111 jerry.trumps@neel-schaffer.com

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

Signature (shall be the same person as #9):



Date: July 19, 2022

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

Firm	Firm's Percent
Vectura	3%

Past Performance Evaluation – Neel-Schaffer has completed projects similar to LA 447 along DOTD roadways. These projects were similar because they included four-lane median-divided corridors, 3-lane segments, multilane roundabouts, pavement widening and combination drainage (open ditches and storm sewer drainage drainage). Our past performance evaluations on these projects reflect our ability to meet DOTD's expectations from a technical, time management, and quality prospective. See approach write up for past performance write ups.

Sections ***12-15***

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Neel-Schaffer's most recent DOTD ROAD DESIGN RATING is a 4.6 out of 5.0

12. Past Performance Evaluation Discipline Table:

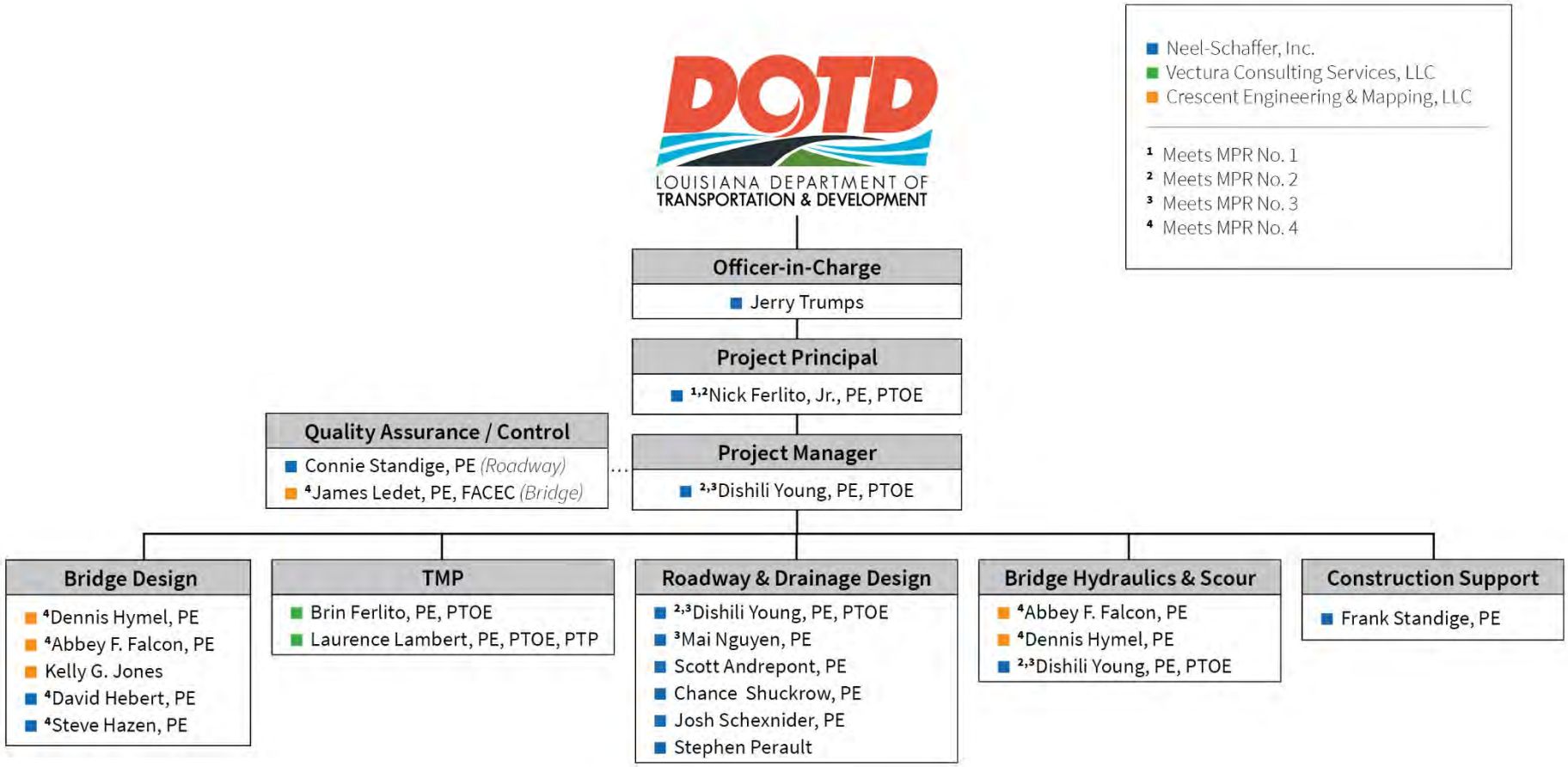
As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for **each past performance evaluation discipline**, as well as the overall total percent of the contract.

Evaluation Disciplines	Percent of Overall Contract	Neel-Schaffer	Crescent	Vectura	Each Discipline Must Total to 100%
Road	91%	100%	0%	0%	100%
Bridge	6%	5%	95%	0%	100%
Traffic	3%	0%	0%	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%**	**91.3%**	**5.7%**	**3%**	

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)
Neel-Schaffer, Inc.	Engineer	7	12
Neel-Schaffer, Inc.	Principal	2	2
Neel-Schaffer, Inc.	Supervisor - Eng.	2	2
Neel-Schaffer, Inc.	Senior Technician	1	3
Crescent Engineering & Mapping, LLC	Supervisor - Engineer	1	1
Crescent Engineering & Mapping, LLC	Engineer	1	2
Crescent Engineering & Mapping, LLC	Technician	1	2
Vectura Consulting Services, LLC	Supervisor	2	2
Vectura Consulting Services, LLC	Engineer	2	5

14. Organizational Chart:



15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement	Firm employed by	Type of license / certification & Number	State of license	License / certification expiration date
1	Nick Ferlito, PE, PTOE	Neel-Schaffer, Inc.	PE 0028001	LA	09/30/2023
2	Nick Ferlito, PE, PTOE	Neel-Schaffer, Inc.	PE 0028001	LA	09/30/2023
2	Dishili Young, PE, PTOE	Neel-Schaffer, Inc.	PE 0033723	LA	09/30/2022
3	Dishili Young, PE, PTOE	Neel-Schaffer, Inc.	PE 0033723	LA	09/30/2022
3	Mai Nguyen, PE	Neel-Schaffer, Inc.	PE 0038189	LA	03/31/2024
4	David J. Hebert, PE	Neel-Schaffer, Inc.	PE 0030416	LA	03/31/2023
4	Steve Hazen, PE	Neel-Schaffer, Inc.	PE.0018087	LA	03/31/2023
4	Dennis Hymel, PE	Crescent Engineering & Mapping, LLC	PE 0038172	LA	09/30/2023
4	James Ledet, PE, FACEC	Crescent Engineering & Mapping, LLC	PE.0022428	LA	03/31/2024

This project will construct two multilane roundabouts along LA 447 (one at O'Donovan Boulevard and one at Buddy Ellis Road). The successful completion of this project will require a team that has extensive experience in the design of multilane roundabouts because geometry greatly impacts the safety and operational performance.

Section 16

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Neel-Schaffer has worked on over 165 roundabouts in Louisiana.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Jerry Trumps**		Years of experience with this firm/employer	23	
Title	Executive Vice President, Southwest Region		Years of experience with other firm(s)/employer(s)	19	
Degree(s) / Years / Specialization			B.S. / 1976 / Business Administration / University of Louisiana		
Active registration number / state / expiration date			✓ Has LA 447 Project Related Experience		
Year registered		Discipline			
Contract role(s) / brief description of responsibilities			Officer in Charge		

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).
1980 - 1992	**Public Works Director, City of Lafayette, LA:** Managed Public Works Department (responsible for bridges, roadways, traffic, drainage, transit, public buildings and utilities)
1992 - 1999	**Jerry Trumps and Associates, Inc.** Planning/General Consulting for local governments, including public works & infrastructure
1999 - Present	**Neel-Schaffer, Inc., currently Executive Vice President/SW Region Manager:** Mr. Trumps has served as Office-in-Charge of the following projects:
1/11 – 1/14	**LA 447 Corridor Study, Walker, LA (LA 16 to US 190) (S.P. No. 701-65-1534)** A corridor study to evaluate corridor improvements along LA 447 between LA 16 and burgess Ave. Project included the interchange at I-12. Includes **multilane roundabouts**
01/20 – Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.**
11/15 – Present	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three **multilane roundabout** intersections and **new bridge design**. The **roadway and drainage design** are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services.
07/15 - Present	**Mandeville Bypass - Mandeville, LA:** This project will provide a new 3 Mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park. Work includes **roadway design** and **multiple multilane roundabouts**.
08/12 - Present	**Juban Road Widening, S.P.N. H.004634:** NSI managed the completion of the **roadway and drainage design services** for this project, which will widen LA 1026 (Juban Rd.), construct **three roundabouts** and two new frontage access roadways, with storm drainage sewer systems.
07/15 – Present	**US 90 Pearl River Bridges Environmental Assessment, St. Tammany Parish, LA and Hancock County, MS, State Project NO. H.000284 & NO. H.000286:** Work includes the preparation of an Environmental Assessment, as well as line and grade engineering for multiple fixed and movable span bridge alternatives. Work includes navigation studies and supporting environmental studies involving the replacement of five Historic Bridges crossing the Pearl River waterways. **Includes a Roundabout.**
04/10 – 12/10	**Stage 0 Feasibility Study: Route LA 182 (North University Avenue) Widening, I-10 to West Pont des Mouton Road, Lafayette Parish (Lafayette Consolidated Government (LCG) Contract No. 500-10-034, State Project No. H.009335):** Project supports the widening

16. Staff Experience

	of LA 182 to four lane capacity. The Study / EA included traffic studies, environmental assessment and alternative concepts for widening the 2-mile route. **Multiple roundabouts are provided.**
05/11 – 02/13	**Environmental Assessment: (EA) Route LA 182 (North University Avenue) Widening, I-10 to West Pont des Mouton Road, Lafayette Parish (Lafayette Consolidated Government (LCG) Contract No. 500-10-034, State Project No. H.009335):** Project supports the widening of LA 182 to four lane capacity. The Study / EA included traffic studies, environmental assessment and alternative concepts for widening the 2-mile route. **Multiple roundabouts are provided.**
06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts** – Lafayette, LA: Road alignment, roundabout layout, and design, preparing cost estimates. **23 separate roundabout projects**
05/07 – 10/09	**St. Martinville Bypass, Route LA 31, St. Martin Parish, LA (State Project No. 700-50-0112) Louisiana Department of Transportation and Development (LADOTD)**: Project includes traffic forecasts and analysis and environmental studies supporting the construction of a new 7.2-mile Suburban Arterial Roadway providing a west Bypass of St. Martinville.
10/07 - 12/09	**Lafayette Parish I-10 Frontage Roads Study (LCG No. 590-07-012/ SPN 736-28-0042/ FAP No. STP-2805(501):** Traffic and line & grade study of I-10 for a 10-mile corridor from LA 93 to Louisiana Avenue in Lafayette, LA to develop viable conceptual alternatives for frontage roads parallel to and/or adjacent to the I-10 corridor, including the evaluation of modifying existing frontage roads and interchanges and the feasibility of one way/two-way frontage roads within the study area.
01/10 – 01/11	**Route LA 3234 Stage 0 Feasibility Study, Tangipahoa Parish, LA (State Project No. H.008915.1):** The project will improve east-west connectivity through Hammond by extending LA 3234 from its current terminus at LA 1065 to Hammond Northshore Regional Airport.
08/14 – 03/19	**I-49 South at Verot School Road, S.P. No. H.011235.5:** This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (**drainage, preliminary and final road design and TMP**) as well as the drainage along these corridors. NSI is also completing the traffic design.
02/22 - present	**W. Broussard Roundabout at Duhon Rd. (LA 724)** This project will construct a **roundabout** and required drainage improvements.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Nick Ferlito, Jr., P.E., PTOE**			Years of relevant experience with this employer	26
Title	Senior Vice President			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			B.S. / 1993 / Civil Engineering M.S. / 1996 / Civil Engineering	**Worked on over 90 Roundabouts in conformance with DOTD requirements**	
Active registration number / state / expiration date			No. 28001 / LA / 09-30-2023 Professional Traffic Operations Engineer No. 930		
Year registered	1998	Discipline	Civil	✓ Has LA 447 Project Related Experience	
Contract role(s) / brief description of responsibilities			Traffic Lead - **Meets MPRs 1 and 2**		

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).
1/11 – 1/14	**LA 447 Corridor Study, Walker, LA (LA 16 to US 190) (S.P. No. 701-65-1534)** Project Manager for a traffic study to evaluate corridor improvements along LA 447 as well as interchange concepts at I-12. A TIER analysis was performed at the interchange of I-12 at LA 447 to evaluate various interchange configurations. The corridor analysis included HCS and Vissim analysis to evaluate RCUT and roundabout corridor concepts. **Includes multilane roundabouts**
07/16 - Present	**I-49 South at Verot School Road, Lafayette, LA:** (S.P. No. H.011235.5) Performed Traffic QA/QC on the preparation of a Transportation Management Plan and design of temporary and permanent traffic signals. **Includes Roundabouts**
8/20 - Present	**I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA** (H.013897) Project Manager for Interchange Modification Report, **Transportation Management Plan (TMP)** and ITR of MOT Plans for the proposed College Drive Ramp improvements. The IMR was prepared in accordance with DOTD's TEPR and FHWA Policy Points. The IMR analysis was performed using Vissim software. In addition, the TMP was prepared for the various maintenance of traffic phases. Analysis used in the TMP included HCS analysis for detour evaluations and Dynameq (Mesoscopic Modeling) for evaluating various MOT strategies.
8/20 – Present	**College Drive Enhancement Project (Perkins Road to I-10), Baton Rouge, LA** PM for the Traffic Study component for the study of the College Drive corridor. The Traffic Study is being prepared in accordance with DOTD' TEPR and includes performing all analysis in Vissim to evaluate various alternatives. In addition to corridor improvements, a tiered analysis will be performed to evaluate various interchange alternatives for I-10 at College Drive. Dynameq was also used.
12/19 – Present	**US 80 Feasibility Study, Haughton, LA: Stage 0/Traffic & Safety Study (S.P. No. 44-10504, T.O. No. H.014044.1)** Project Manager for the preparation of a Stage 0 Report in support of safety improvements along US 80 corridor, specifically in the vicinity of Bellevue Road and Mid-South Loop Road. All analysis performed in HCS for this study. The traffic study was performed in accordance with DOTD's TEPR.
06/17 – 09/18	**I-10 New Orleans Master Plan, Port Access Improvements, RPC Project NOI-10MP, State Project No. H.012837.** Created a plan or a program of projects which mitigates the severe congestion extending from Interstate 10 at its interchange with the Pontchartrain Expressway (US 90B / I-910) to the Crescent City Connection (CCC) crossing of the Mississippi River, including connecting ramps and roadways. *Project Manager*. **Includes roundabout alternatives.**

16. Staff Experience

02/15 – 12/17	**US 51 (W University to I-55) Corridor Study (Contract No. 4400004064, T.O. No. H.011401.1)—US 51 Corridor Study.** Includes analysis of **8 roundabout** geometry intersections. *Project Manager*
01/15 – 06/15	**LA 3002, 16 & 1034 Corridor Study Phase 2 (Contract No. 4400004064, T.O. No. H.011645.1)—Range Ave. Corridor Study)** *Project Manager*. **Includes 12 roundabout alternatives.**
01/15 – 06/15	**LA 3002, 16 & 1034 Corridor Study Phase 2 (Contract No. 4400004064, T.O. No. H.011645.1)—Range Ave. Corridor Study)** *Project Manager*. **Includes 12 roundabout alternatives.**
03/13 – 09/14	**Operational / Safety Study, LA 311, S.P. No. 4400002630, T.O. No. H.005043.2 – Houma, LA:** Provided traffic signal evaluation and installation design services: Traffic counting (data collection), Warrant Analysis, Traffic Modeling, Intersection / Corridor Analysis Traffic Signal Design, Geometric Evaluations, Traffic Signal Inventories (TSI), and Access Management. *Traffic Engineering Manager* **Includes 6 roundabout alternatives.**
11/12 – 04/14	**Operational / Safety Study, LA 1088, S.P. No. 4400002630, T.O. No. H.010116 – Mandeville, LA:** Provided traffic signal evaluation and installation design services: Traffic counting (data collection), Warrant Analysis, Traffic Modeling, Intersection / Corridor Analysis Traffic Signal Design, Geometric Evaluations, Traffic Signal Inventories (TSI), and Access Management. *Traffic Engineering Manager* **Includes 8 roundabout alternatives.**
01/13 – 01/14	**US 190 (LA 433 to US 11) Interim Capacity / Widening Improvements Stage 0 Feasibility Study, (RPC Project No. LA433)** Performed a safety and capacity evaluation of a 6.6-mile segment of US 190 corridor within St. Tammany Parish extending from LA 433 to US 11. *Traffic Engineering Manager.* **Includes 8 roundabout alternatives.**
11/16 – 08/19	**LA 385 Feasibility Study, Lake Charles, LA – Stage 0/Traffic & Safety Study (S.P. No. 44-4402, T.O. No. H.012685.1)** Project Manager for the Stage 0 Report in support of safety and traffic operational improvements along with the LA 385 (Ryan Street) corridor between LA 3186 south of I-10 to Eddy Street north of I-10, including the LA 385 interchange with I-10. **Includes Multilane Roundabouts**
10/13 – 12/16	**LA 30 Stage 0, Gonzales, LA – Traffic & Safety Study (S.P. No. 44-1862, T.O. H.010572.1)** PM for the traffic study, including a TIER analysis for new interchange concepts atI-10 at LA 30, as well as corridor improvements between LA 3251 and LA 44. Future traffic forecast for the study were developed using the CRPC Travel Demand model and considered future interchanges at I-10 and LA 74 and LA 429. The recommended TIER I alternatives were analyzed in detail using Vissim. **Includes Multilane Roundabouts**
02/16 – 04/18	**LA 22 Corridor Study, Rou Mar Nei Drive to 1st Street (S.P. No. 44-4064, T.O. No. H.011618.1), Ponchatoula, LA** Project Manager for a traffic study to evaluate corridor improvements along LA 22 as well as interchange concepts at I-55. A TIER analysis was performed at the interchange of I-55 at LA 22 to evaluate various interchange configurations. The corridor analysis included HCS analysis to evaluate RCUT and **roundabout corridor concepts**.
02/15 – 4/18	**LA 384 Stage 0, Lake Charles, LA – Traffic & Safety Study (S.P. No. 44-4909, T.O. H.011242.1)** Project Manager for traffic and safety study for LA 384 (Country Club Road) from Big Lake Road to McNeese Street. **Includes Multilane Roundabouts**
02/18 - Present	**Kansas Lane-Garrett Road Connector and I-20 Improvements, Monroe, LA:** (S.P. No. H.004774.5 & H.007300.6) Project Manager/Traffic Lead for the preparation of a Level 4 **Transportation Management Plan**, review of MOT plans, design of temporary and permanent traffic signals and design of the relocation of DOTD ITS fiber optic trunk line.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Dishili Young, P.E., PTOE**			Years of experience with this firm/employer	5
Title	Senior Project Manager			Years of experience with other firm(s)/employer(s)	15
Degree(s) / Years / Specialization			B.S. / 2002 / Civil Engineering / LSU; MCE/2018/Auburn University		
Active registration number / state / expiration date			No. 0033723 / LA / 9/30/2022 **Worked on 60 Roundabouts in conformance with DOTD**		
Year registered	2008	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Manager **- Meets MPRs 2 and 3** ✓ Has LA 447 Project Related Experience		

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).
12/14 - 8/17	**LA 447 Corridor Study, Walker, LA (LA 16 to US 190) (S.P. No. 701-65-1534)** Ms. Young assisted with the geometric design for the R-Cut and roundabout improvements, public outreach and served as Project Manager and road design lead for the EA while working at APTIM. Includes **multilane roundabouts**
01/20 - Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** Ms. Young is managing the **preliminary and final design** services for this project. This project will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The project includes a new bridge over I-20 with sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP**
04/18 - Present	**I-49 South at Verot School Road, S.P. No. H.011235.5:** Ms. Young is managing the design services for the interstate design and service road design (**drainage, preliminary and final road design and TMP**). This project which will construct 2.4 miles of mainline freeway, bridges and an interchange at the intersection of I-49 South/US 90 and Verot School Road. This project includes the design of a major bridge crossing at Verot Rd. and I-49 and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. Neel-Schaffer (NSI) is serving as the subconsultant for this project. NSI is designing the interstate mainline and frontage roadways, as well as, designing the drainage along these corridors. NSI is also completing the traffic design and TMP. **Includes roundabout**
12/17 - 07/20	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7 - mile, 4 lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three **multilane roundabout** intersections and a new bridge crossing of the Vermillion River. The roadway and drainage design is being completed in conformance with LADOTD guidelines. Ms. Young managed and assisted with the **roadway, bridge hydraulics and roadway drainage** design effort for this project. NSI provided public outreach, environmental, road design and traffic services.
08/17 - 03/19	**Juban Road Widening, S.P.N. H.004634:** Ms. Young served as the engineer of record and managed the completion of the **roadway and drainage design services** for this project which will widen LA 1026 (Juban Rd.), construct three roundabouts and two new frontage access roadways, with storm drainage sewer systems.
08/17 - Present	**Mandeville Bypass - Mandeville, LA:** This project will provide a new 3 Mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park. Ms. Young is managing the **roadway design** services. Includes **multiple multilane roundabouts**.

16. Staff Experience

08/17 – Present	**Ham Reid at LA 3092 Intersection Improvements:** Ms. Young is serving as engineer of record for this project which will construct a roundabout at the intersection of LA 3092 and Ham Reid Road. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.
02/10 – 12/11	**S.P. No. 450-10-0159: I-10 Widening Design-Build Siegen Ln. (LA Hwy 3246) to Highland Rd. (LA Hwy 74) for LA DOTD:** Ms. Young served as Engineer and managed portions of the civil design for this project. This project involved the widening of I-10 from four lanes to six, **bridge reconstruction** (I-10 over Wards Creek and I-10 over KCS Bridge), **and drainage improvements** along the corridor. In addition to assisting with the **roadway design**, Ms. Young completed the **H&H analysis and scour analysis** for the Wards Creek Bridge. She also assisted with the drainage design along the interstate corridor.
01/09 – 11/11	**I-12 Widening Design-Build:** Ms. Young served as Engineer for this project involving widening of I-12 and **bridge reconstruction** (I-12 over Amite River (two bridges) and I-12 over O'Neal Lane (two bridges). In addition to assisting with the **roadway design**, she assisted with the **scour analysis and H&H analysis** at the Amite River as well as the drainage design along the interstate corridor.
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724)** This project will construct a roundabout and required drainage improvements. Project Manager.
05/16 – 01/20	**Bossier Parish Roadway, Bridge and Culvert Engineering, Damage Assessment and Reconstruction Services**. Ms. Young managed the civil portion of this project which included approximately **90 project sites consisting of bridges, roadway reconstruction, patching and overlays, and new drainage structures.**
05/16 – 01/20	**Webster Parish Roadway, Bridge and Culvert Engineering, Damage Assessment and Reconstruction Services.** Ms. Young managed the civil portion of this project which included approximately **200 project sites consisting of bridge repairs, roadway reconstruction, patching and overlays, and new drainage structures.**
08/17 – 03/20	**LA 73 Turn Lanes:** Ms. Young served as engineering design manager for this project which will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.
09/17 - 10/18	**LA 27 Turn Lanes**: Ms. Young served as engineering design manager for this project which constructed turn lanes at multiple locations along LA 27 in Calcasieu and Cameron Parishes. The design was completed in accordance with LADOTD guidelines.
06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts – Lafayette, LA**: Road alignment, roundabout layout, and design, preparing cost estimates. 23 separate roundabout projects
01/15 – 03/16	**US 108 & Trousdale Road Turn Lane Improvements**: Ms. Young managed the completion of the preliminary and final plan sheets, baselines, sequence of construction and striping and signage plans for this project. The roadway design was completed in accordance with LADOTD guidelines.
03/07 – 08/08	**South Harrell's Ferry Road Improvements, GLP, Baton Rouge, LA:** This project involved the reconstruction, realignment and widening of South Harrell's Ferry Road to a median divided corridor. Ms. Young completed a comprehensive review and analysis of the preliminary vertical and horizontal alignment. She assisted in completing adjustments to the preliminary alignments to comply with the applicable design criteria. She also assisted with the creation of a **HEC-RAS model for a major drainage crossing and bridge alternative**. She revised the subsurface drainage using LADOTD hydraulics software for the entire corridor when the vertical alignment was changed to adhere to new standards. Ms. Young completed the Design Report for all tasks in accordance with LADOTD guidelines.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Mai Nguyen, P.E.**			Years of relevant experience with this employer	6
Title	Roadway Design Engineer			Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2008 / Civil Engineering		
Active registration number / state / expiration date			No. 38189 / LA / 03-31-2024 ✓ Has LA 447 Project Related Experience		
Year registered	2013	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Road Design – **Meets MPR 3** **Worked on 45 Roundabouts**		

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).
Career History	Ms. Nguyen has over 13 years of experience as a Roadway Design Engineer, including over six years working for LADOTD roadway design. She is proficient with modeling and developing roadway plans in accordance with LADOTD design guidelines. She has completed numerous roadway construction plans, including roadway alignments, typical sections, cross sections, geometric details, graphical grades, drainage design, construction sequencing, striping and signing layout, and cost estimates. She also has completed countless interchange geometric layouts, roundabouts, and unconventional intersections following AASHTO and LADOTD design guidelines. She is experienced with utility coordination, creating detour plans, and working with Contractors and LADOTD Engineers to ensure the project is constructed according to plans. She is Certified as a Work Zone Traffic Control Supervisor, Technician and Flagger.
1/11 – 1/14	**LA 447 Corridor Study, Walker, LA (LA 16 to US 190) (S.P. No. 701-65-1534)** A corridor study to evaluate corridor improvements along LA 447 between LA 16 and burgess Ave. Project included the interchange at I-12. Includes **multilane roundabouts**
09/14 - 08/15	**LA 16: Roundabout @ LA 447, Livingston, LA. S.P. No. H.010124** - Responsible for developing **roundabout preliminary roadway plans** in accordance with LaDOTD design guidelines, creating horizontal and vertical alignment layouts, modeling roadway to determine required right-of-way limits, developing sequence of construction, and perform **hydraulic analysis**.
01/20 – Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.**
04/18 - present	**I-49 South at Verot School Road, S.P. No. H.011235.5:** This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (**drainage, preliminary and final road design and TMP**) as well as the drainage along these corridors. NSI is also completing the traffic design. **Includes roundabout**

16. Staff Experience

11/15 – 07/20	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three **multilane roundabout** intersections and **new bridge design**. The **roadway and drainage design** are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services.
02/17 - 06/17	**LA 6 (I-49 Interchange to LA 3278) Corridor Study in Natchitoches, LA. S.P. No. H.011402 -** LA 6 Corridor Study Includes analysis of proposed roundabout interchange (**3 roundabouts**) geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study.
07/15 – Present	**US 90 Pearl River Bridges Environmental Assessment, St. Tammany Parish, LA and Hancock County, MS**: Project includes the replacement of five bridges. This project also includes roundabout intersections. Project Engineer for over 75 line and grade alternatives. Developed horizontal and vertical alignments, considering required drainage and ROW requirements were developed and analyzed for potential environmental impacts and costs. Includes a **roundabout intersection**
05/12 - 10/14	**H.009033: LA 44 Intersection Improvement @ LA 934, Ascension, LA:** Responsible for developing roadway plans in accordance with LaDOTD design guidelines, performing sub-surface drainage calculations, creating horizontal and vertical alignment layouts, modeling roadway to determined required right-of-way limits, and calculating quantities and cost estimates for bidding.
08/17 – 07/18	**I-10 New Orleans Master Plan**: Ms. Nguyen provided engineering support in development of horizontal and vertical alignments of roadways, and geometric layouts of traditional interchanges, with **multiple bridges, alternative intersections, ramps, roundabouts**, and HOV lanes to provide access to the Port of New Orleans.
09/15 - 10/17	**LA 22 (Dalwill to Rodger Storm) Corridor Study (Contract No. 4400004064, T.O. No. H.011454.1):** Includes analysis of **six roundabout geometry intersections**. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study.
06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts – Lafayette, LA:** Road alignment, roundabout layout, and design, preparing cost estimates. **23 separate roundabout projects**
02/15 - 12/16	**US 51 Business Corridor Study (I-12 to Coleman):** Includes analysis of **three roundabout geometry intersections**. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study.
02/15 - 10/16	**US 51 Corridor Study (W University to I-55):** Includes analysis of **eight roundabout geometry intersections**. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study.
09/14 - 08/15	**LA 27 turn lane improvements, Cameron and Calcasieu, LA:** Responsible for developing roadway plans following LADOTD design guidelines at three turn lanes along LA 27 at LGN plant entrances. Served as utility coordinator, and provided engineering support during construction. Also, responsible for developing utility agreement packages as part of utility coordination phase. The tasks included communication, site visitation and coordination with countless utility companies, LNG facility personnel and LADOTD to seamlessly reduce and address utility conflicts. Also, assisted the Contractor with design associated with concrete barrier, provided working drawings to assist with construction activities, and provided commercial driveway detail drawings and design at locations with large grade changes.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Chance Shuckrow, P.E.**		Years of relevant experience with this employer		8
Title	Project Engineer		Years of relevant experience with other employer(s)		0
Degree(s) / Years / Specialization			B.S. / 2014 / Civil Engineering	**Worked on 24 Roundabouts in conformance with DOTD requirements**	
Active registration number / state / expiration date			No. 42746 / LA / 03-31-2023		
Year registered	2018	Discipline	Civil	✓ Has LA 447 Project Related Experience	
Contract role(s) / brief description of responsibilities			Road Design, Drainage Design		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/11 – 01/14	**LA 447 Corridor Study (LA 16 to US 190), Walker, LA:** Project Engineer for a corridor study to evaluate corridor improvements along LA 447 between LA 16 and burgess Ave. Project included the interchange at I-12. Assisted with geometric layouts and cost estimates. **Includes multilane roundabouts.**
08/14 – 03/19	**Juban Road (LA 1026) Widening, Livingston Parish, LA:** Final design for reconstruction of Juban Rd as a four-lane median divided roadway with **multilane roundabouts** intersections and a shared use path. Completed vertical and horizonal alignments and modeled the project with Bentley software, assisted with the **drainage design** and preparation of plans.
02/20 – Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.**
11/15 – Present	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three **multilane roundabout** intersections and **new bridge design**. The **roadway and drainage design** are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services.
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. **Includes roundabout.** Technical lead and engineer of record.
09/15 – Present	**LA 27 Left Turn Lanes for Cameron LNG Plant in Cameron Parish, LA:** Assisted in **roadway design**, development of alignments, modeling, and preparation of plans.
09/15 – Present	**Ham Reid at LA 3092 Intersection Improvements:** This project will construct a **roundabout** at the intersection of LA 3092 and Ham Reid Road. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.

16. Staff Experience

07/15 – Present	**US 71 Corridor Study, Bossier Parish, LA:** Assisted in geometric layout of roadway and development of alternatives.
08/17 – 03/20	**LA 73 Turn Lanes, Ascension Parish, LA:** This project will construct turn lanes at multiple locations along LA 73. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.
03/15 – Present	**Mandeville Bypass, Mandeville, LA:** This project will provide a new three-mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park. Work includes **roadway design** and **multiple multilane roundabouts**.
03/15 – Present	**St. Martinville Bypass (LA 31) Environmental Assessment and Line and Grade Study, St. Martinville, LA:** Includes **five roundabout geometry intersections** at connections with state routes. Assisted in geometric design of roadway alternatives and in the development of horizontal and vertical profiles.
08/14 – 03/19	**I-49 South at Verot School Road, S.P. No. H.011235.5:** This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (**drainage, preliminary and final road design and TMP**) as well as the drainage along these corridors. NSI is also completing the traffic design. **Includes roundabout design.**
09/18 – 12/18	**I-20 at 220 Interchange Improvement & BAFB Design-Build Project:** The project included preliminary plan development for completing the existing partial interchange by adding a new flyover ramp, cloverleaf ramp, modifying existing ramps, and providing a new arterial roadway with a new bridge over the Kansas City Southern railroad. Mr. Shuckrow provided design support.
08/14 – 03/15	**US 90 (Future I-49) LA 318 Interchange-Design Build Project:** The Project included a new grade separated interchange at the existing LA 318 intersection, the reconstruction of the mainline of US 90 (future I-49) and a frontage road system. NSI developed **interchange designs** for the LA 318 overpass, the US 90 WB entrance ramp, and the frontage roads. Mr. Shuckrow provided design support.
12/2021 – Present	**I-10 I-12 College Drive Design-Build Project:** This project will improve the I-10 at College Drive exit by removing the weave that exists when I-10 westbound traffic crosses over several lanes to access the College Drive exit ramp. The westbound lanes for I-12 will be realigned to match the eastbound I-12 travel lanes more closely. Mr. Shuckrow is providing the independent design review for the **roadway design**.
11/19 – Present	**IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62):** This project will provide safety improvements for four parishes within three districts. The tasks under this project include stage 0 feasibility studies, planning / environmental, **preliminary and final design**, and construction related engineering. Mr. Shuckrow is providing civil design support and **drainage design**.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.				
Name	**Scott Andrepont, P.E.**		Years of relevant experience with this employer	10
Title	Project Engineer		Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization			B.S. / 2005 / Civil Engineering M.S. / 2007 / Civil Engineering	**Worked on LA 182 (univ) @ LA 723 roundabout and over 40 others**
Active registration number / state / expiration date			No. 37107 / LA / 09-30-2024	
Year registered	2012	Discipline	Civil	✓ Has LA 447 Project Related Experience
Contract role(s) / brief description of responsibilities			Road Design/Drainage Design	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
Career History	Mr. Andrepont is a design engineer and has been assigned to a variety of projects which include safety projects, roadway design, drainage design, foundation design and other civil engineering projects. His duties include design and analysis, preparation of construction plans, and specifications. He also has experience providing engineering design support during construction.
1/11 – 1/14	**LA 447 Corridor Study, Walker, LA (LA 16 to US 190) (S.P. No. 701-65-1534)** A corridor study to evaluate corridor improvements along LA 447 between LA 16 and burgess Ave. Project included the interchange at I-12. Includes **multilane roundabouts**
09/09 – 08/12	**LA 182 (North University Avenue) Widening, I-10 to West Pont des Mouton Road - Stage 0 Feasibility Study and Environmental Assessment (EA) Route, Lafayette Parish (Lafayette Consolidated Government (LCG) :** Road alignment, preparing scope for utility and topographic survey, **roundabout layout and design**, and plan preparation. *Project Engineer.* **Includes roundabouts.**
11/19 - Present	**IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62):** This project will provide safety improvements for four parishes within three Districts. The tasks included under this project are Stage 0 Feasibility Studies, Planning/Environmental, Design and construction related engineering. Mr. Andrepont is assisting with the roadway and drainage plan production and design.
09/09 – 08/12	**N. University Ave. Widening – Lafayette, LA:** Road alignment, preparing scope for utility and topographic survey, **roundabout layout** and design, and plan preparation. *Project Engineer*
11/15 – 07/20	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three **multilane roundabout** intersections and **new bridge design**. The **roadway and drainage design** are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services.
01/20 – Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.**
11/13 - 04/15	**H. 004932: US 90 (Future I-49) LA 318** Project Engineer supporting Interchange DB Project Road profiles, **roundabout design,** preparation of cost estimates. *Project Engineer.* **Includes roundabout.**

16. Staff Experience

04/18 – Present	**I-49 South at Verot School Road, S.P. No. H.011235.5:** This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (**drainage, preliminary and final road design and TMP**) as well as the drainage along these corridors. NSI is also completing the traffic design. **Includes roundabouts.**
08/12 – 03/19	**Juban Road Widening, S.P.N. H.004634:** NSI managed the completion of the **roadway and drainage design services** for this project, which will widen LA 1026 (Juban Rd.), construct **three roundabouts** and two new frontage access roadways, with storm drainage sewer systems.
06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts – Lafayette, LA:** Road alignment, **roundabout layout**, and design, preparing cost estimates. *Project Engineer.* **Includes 23 roundabouts.**
03/15 - Present	**Mandeville Bypass, St. Tammany Parish LA,** Assisted in geometric layout of roadway and development of alternatives. Includes **roundabout geometry intersections** with LA 1088 and US 190. *Road Design Assistance.* **Includes 4 roundabouts.**
03/2019-04/2020	**LA 328 (Reese Street) Stage 0** Mr. Andrepont created the geometry for this project which would improve LA 328 from Latiolais Drive to E. Bridge St. Signalized and roundabout intersections were considered. Mr. Andrepont completed the design criteria, typical sections, and geometry in accordance with the requirements of DOTD. He also assisted with public outreach activities. **Includes 3 roundabouts.**
10/2018-05/2019	**LA 182/Stone Ave. Right Turn Lane, Lafayette, LA -** Mr. Andrepont lead the construction administration for the turn lane installation, roadway improvements, drainage, and signage. Design completed within project limits.
03/2017-04/2017	**LA 27/LA 1256 Turn Lane Construction, Cameron Parish, LA -** Mr. Andrepont assisted with the construction administration for the turn lane installation, signage, and roadway improvements.
01/2012-04/2012	**City of Walker - Bridge Replacement Study, Walker, LA** – Mr. Andrepont completed site visits to multiple bridges. He was charged with verifying the condition of bridges, prioritizing the necessary replacement of each bridge in comparison to the others, and estimating cost of replacement
04/2020-Present	**US 90 and FM 481 Improvement, Kinney County, TX:** QA/QC of Striping, Singing, and High Friction Surface course plans.
09/09 – 08/12	**N. University Ave. Widening – Lafayette, LA**: Road alignment, preparing scope for utility and topographic survey, roundabout layout and design, and plan preparation. *Project Engineer*
07/13 - 09/13	**LA 1088 Traffic Corridor Study for LA DOTD in St. Tammany Parish, LA (SPN 4400002630, T.O. #H.010116.1):** Assisted in the geometric layout for 3 Alternatives for the improvements of LA 1088. Each alternative included **roundabouts** at determined intersection with J-turns as well as complete streets with combinations of bike paths/multi-use paths / sidewalks along the corridor. *Design Assistance.* **Includes roundabouts.**
	ATSSA – Work Zone TCS/TCT/Flagger

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Joshua Schexnider, P.E.**			Years of relevant experience with this employer	6
Title	Engineer Intern			Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization			B.S. / 2016 / Civil Engineering	**Worked on over 15 Roundabouts in conformance with DOTD requirements**	
Active registration number / state / expiration date			No. PE.0045891 / LA / 03-31-2024		
Year registered	2021	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Road Design		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
Career History	Mr. Schexnider joined Neel-Schaffer in 2016. He has experience with providing engineering and CE&I services for projects which include roundabouts, roadways, sidewalks, and drainage improvements. Prior to joining the firm, he spent fourteen years prior working for John Chance Land Surveys, Inc. While at JCLS, he was part of a team, FLI-MAP, which specialized in corridor mapping using LiDAR technology. He has experience with Applanix processing software as well as some experience with ArcMap.
02/20 – Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.**
04/18 – Present	**I-49 South at Verot School Road – Lafayette, LA:** Mr. Schexnider is providing design support for the road design for this project which will construct 2.4 miles of mainline freeway, an interchange at the intersection of I-49 South/US 90 and Verot School Road, and a **roundabout**. Project involves at grade railroad crossings. *Engineering Intern*
10/19 – Present	**East Mandeville Bypass – St. Tammany Parish:** This project will construct a new 2-mile four lane median divided roadway with **multilane roundabouts** intersections at LA 1088 and US 190. *Engineering Intern* **Includes roundabout**.
08/16 – Present	**Southcity Parkway Extension – Lafayette, LA:** Assisted in preparation of plans. *Engineering Intern.* **Project includes 3 multilane roundabouts**.
05/16 – 07/16	**Juban Road (LA 1026) Widening, Livingston Parish, LA:** Assisted in preparation of plans. *Engineering Intern.* **This project includes roundabouts**.
02/17 – Present	**US 90 Bridges Environmental Assessment, St. Tammany Parish, LA:** Assisted with preparation of plans. **Includes a roundabout.**
08/17 - 01/20	**Bossier Parish Roadway, Bridge and Culvert Engineering, Damage Assessment and Reconstruction Services.** This project included approximately 90 project sites consisting of bridges, roadway reconstruction, patching and overlays, and new drainage structures. Mr. Schexnider assisted with the design and plan production.
08/17 - 03/20	**LA 73 Turn Lanes:** This project will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.
06/16 – 06/16	**LA 22 Corridor Study – St. Tammany Parish, LA:** Assisted with preparation of plans. *Engineering Intern* **Includes 6 roundabouts.**

16. Staff Experience

<table>
<tr><td colspan="6">Firm employed by Neel-Schaffer, Inc.</td></tr>
<tr><td>Name</td><td colspan="2">Stephen Perault</td><td colspan="2">Years of relevant experience with this employer</td><td>5</td></tr>
<tr><td>Title</td><td colspan="2">Senior Technician</td><td colspan="2">Years of relevant experience with other employer(s)</td><td>33</td></tr>
<tr><td colspan="3">Degree(s) / Years / Specialization</td><td colspan="3">Worked on over 30 Roundabouts in conformance with DOTD requirements</td></tr>
<tr><td colspan="3">Active registration number / state / expiration date</td><td colspan="3"></td></tr>
<tr><td>Year registered</td><td></td><td>Discipline</td><td colspan="3">✓ Has LA 447 Project Related Experience</td></tr>
<tr><td colspan="3">Contract role(s) / brief description of responsibilities</td><td colspan="3">Roadway Design Support</td></tr>
<tr><td>Experience dates (mm/yy–mm/yy)</td><td colspan="5">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).</td></tr>
<tr><td>Career History</td><td colspan="5">Mr. Perault has over 35 years’ experience in roadway design which includes the design of over 25 roundabout projects and design support for roadway projects (turn lanes, new roadway corridors, widening, interstates and more). He retired from LADOTD in 2015 and has worked in the private sector since then. His capabilities include:
• Stage 3 (Engineering) design and drafting of complete LA DOTD roadway plans for Engineer review and stamp.
• Draft and design on LA DOTD Stage 0 (Feasibility) and Stage 1 (Environmental) projects.
• FEMA disaster recovery work.
• Extensive knowledge of Inroads, Microstation, Descartes, Storm and Sanitary CAD, Cadconform and ProjectWise software and LA DOTD’s Hydwin design programs.
• Perform QA/QC review of roadway plans.
• Completing NOI permit applications and Constructability/Biddability forms.
• Draft design exceptions, processes plan revisions and change orders.

His project experience at LADOTD includes:
• S.P. H.000466: US 190: Roundabout at Eden Church RD. Project included a 3-legged Roundabout at the intersection of US 190 and Eden Church Rd. Responsible for the design and development of preliminary and final roadway plans and prepared the construction cost estimate.
• S.P. H.008322: LA 637: Port of S. Louisiana Connector Responsible for the design and development of preliminary and final roadway plans for the widening of LA 637 from 2 to 3 lanes and prepared the construction cost estimate.
• S.P. H.003969: Existing 3-Lane to Contraband Bayou Bridge Designer of the preliminary and final roadway plans that involved the widening on LA 1138-2 from 2 to 3 lanes and a 3-legged Roundabout at the intersection of Holly Hill Road and LA 1138-2 and assisted with the construction cost estimate.
• S.P. 262-02-0023: Denham Springs – Watson Designed the roadway for the widening of LA 16 from 2 to 4 lanes. Responsible for the development of preliminary and final roadway plans and prepared construction cost estimate.</td></tr>
</table>

16. Staff Experience

12/14 - 8/17	SP No. H.005734:LA 447 Corridor Study: This Project would widen LA 447 between La 16 and Burgess Ave. Assisted with plan production and the geometric design for the R-Cut and roundabout improvements.
12/17 – Present	**Southcity Parkway Extension - Lafayette, LA:** This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three **multilane roundabout** intersections and **new bridge design**. The **roadway and drainage design** are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services.
08/17 – 03/19	**Juban Road Widening, S.P.N. H.004634:** NSI managed the completion of the **roadway and drainage design services** for this project, which will widen LA 1026 (Juban Rd.), construct **three roundabouts** and two new frontage access roadways, with storm drainage sewer systems.
02/20 - Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.**
08/17 - present	**Ham Reid at LA 3092 Intersection Improvements:** This project will construct a **roundabout** at the intersection of LA 3092 and Ham Reid Road. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.
08/17 - 03/20	**LA 73 Turn Lanes:** This project will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The **roadway and drainage design** were completed in accordance with LADOTD guidelines
04/18 - Present	**I-49 South at Verot School Road, S.P. No. H.011235.5:** This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (**drainage, preliminary and final road design and TMP**) as well as the drainage along these corridors. NSI is also completing the traffic design.
11/19 - Present	**IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62):** This project will provide safety improvements for four parishes within three Districts. The tasks included under this project are Stage 0 Feasibility Studies, Planning/Environmental, Design and construction related engineering. Mr. Perault is providing design support and is assisting with plan production.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Steve Hazen, P.E.**			Years of relevant experience with this employer	14
Title	Senior Engineer			Years of relevant experience with other employer(s)	34
Degree(s) / Years / Specialization			B.S. / 1974 / Civil Engineering		
Active registration number / state / expiration date			No. 18087 / LA / 03-31-2023		
Year registered	1979	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge Design - **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).
Career History	Mr. Hazen joined Neel-Schaffer in 2008 following many years with Demopulos & Ferguson Associates, Inc. Mr. Hazen has worked as a Hydraulics, Structural, and Soils Engineer with a primary focus on highway and railway bridges, hydrological analysis, drainage design for projects, and structural design for buildings and facilities
09/18 - 12/18	**I-20 at I-220 Interchange Improvement & BAFB Design-Build Proposal, Bossier Parish, LA** – *Project Engineer*. Design of preliminary roadway drainage and H&H analysis for Musselshell Bayou and its tributaries and HEC-RAS analysis of Red Chute Bayou to check for effect of road embankment on flood stages. Project included both bridges and box culverts.
08/17 - 03/19	**Wilson Road Bridge over Garners Bayou, Houston, TX** – *Project Engineer*. Responsible for bridge and retaining wall structural design and hydraulic design. Project includes widening existing 2-lane bridge to 6-lanes. Bridge features three 85' span precast, prestressed concrete box girders on cast-in-place multiple column bents with individual large diameter drilled shafts at each column. Bridge design was complicated by being situated in horizontal and vertical curves.
02/17 – 08/17	**CMAQ IV, Phase 2E: Improvements to the Beltway 8 West Corridor in Precinct 4, Houston, TX** – *Project Engineer*. Drainage analyses of 12 intersections being improved on Beltway 8, Harris County, TX. Project included analysis of storm drain systems for improvements to the roadway expansion.
01/17 – 05/19	**Wilson Road Improvements from North Belt (Beltway 8) to Atascocita Road, Harris County, TX** – *Project Engineer*. Design of storm drain systems, outfalls, and detention for improvement of Wilson Rd from 2-lane to 4-lane roadway. This project included hydraulic studies and analysis to support improvements in the roadway and intersections, and design of storm drainage system, including box culverts.
06/10 - 10/11	**S.P. 713-09-0018: Off System Highway Bridge Program; Bostwick Road Bridge over Choctaw Bayou, Caddo Parish, LA** – *Project Engineer*. Design tasks included survey, HEC-RAS backwater analysis and alternatives analysis of bridge concepts. New bridge is a 140' long concrete lab span structure.
02/10 - 10/11	**S.P. 713-09-0022: Off System Highway Bridge Program; Sparks Davis Road Bridge over Tributary to Buchanan Bayou, Caddo Parish, LA** – *Project Engineer*. Work included HEC-RAS analysis of existing bridge opening and bridge replacement alternative plans. Existing bridge was a three span concrete bridge and the recommended alternative was four reinforced box culverts.
02/10 - 02/11	**S.P. 713-09-0021: Off System Highway Bridge Program; White Springs Bridge over Wallace Bayou, Caddo Parish, LA** – *Project Engineer* for replacement of 2-lane, 164' long bridge. New bridge is a 180' long and 40' wide concrete quad beam bridge with 20' approach slabs. Work included HEC-RAS analysis of bridge opening and bridge plans.

16. Staff Experience

02/10 - 06/10	**S.P. 713-09-0019: Off System Highway Bridge Program; South Lakeshore Drive Bridge over Tributary to Cross Lake, Caddo Parish, LA** – *Project Engineer*. Work included HEC-RAS analysis of existing bridge opening and bridge plans for the proposed replacement of two, 21-ft (42 ft) span concrete bridge. Recommendation based on hydraulic analysis was four reinforced box culverts.
01/09 - 01/11	**Paving and Drainage Improvements for Fallbrook Drive Segment A Precinct 4: from Old Bammel North Houston Road to Antoine Drive, Halls Bayou, Harris County, TX** – *Project Engineer*. Hydraulic design for Fallbrook Drive with the use of Houstorm (Harris County specific hydraulic modeling software).
11/06 – 12/09	**S.P. No. 713-25-0105: Off System Highway Bridge Program; Country Road Bridge over Garrett Creek, Jackson Parish, LA** – *Project Engineer*. Hydraulic design of Off-system Bridge Replacement in Jackson Parish, using HEC-RAS. Project included design of bridge replacement for a 25 ft x 57 ft timber bridge with four 10x8 reinforced concrete box culverts.
06/06 - 01/08	**S.P. 713-09-0020: Off System Highway Bridge Program; Morningside Drive Bridge over Virginia Avenue Ditch, Caddo Parish, LA** – *Project Engineer*. Work included HEC-RAS analysis of bridge opening and bridge replacement alternative plans. Project included the replacement of a 20-ft single span concrete bridge with recommended alternative of two reinforced box culverts or two reinforced concrete pipe culverts based on hydraulic and economic analysis.
12/05 - 07/12	**Mueschke Road: From North of Little Cypress Creek to North of Wilks Drive, Harris County, TX** – *Project Engineer*. Hydraulic design for Mueschke Road, including analysis of Tributary to Little Cypress Creek, using HEC-2 and Houstorm (Harris County specific hydraulic modeling software).
01/05 - 01/06	**S.P. No. 023-06-0044: US 167 - Jackson Parish; Quitman - Lincoln Parish** – *Project Engineer*. Hydraulic design of slab span bridges and culverts for timed project Hwy 167. Quitman to Lincoln Parish Line. Use of HEC-RAS and LADOTD Hydraulics Programs.
04/02 – 12/04	**S.P. No. 700-31-0114: Environmental Assessment for Tarbutton Road Interchange and Frontage Road; Route I-20, Ruston, LA** – *Project Engineer* evaluated existing bridge structures at LA 544, LA 149 and Tarbutton Road. Prepared schematic design modification or replacement of existing bridges.
07/99 – 01/01	**Arthur R. Teague Parkway: Southern Extension, Bossier City, LA** – *Project Engineer*. Design of drainage for the project including inlet design, storm drainage systems and outfalls for Arthur Ray Teague Parkway, Southern Extension from Walker Place to Hwy 511.
05/99 – 10/99	**Youree Drive Drainage Improvements: Southfield Road to Sand Beach Bayou, Shreveport, LA** – *Project Engineer*. Analysis of drainage problems on Youree Drive using HEC-1, HEC-2, evaluation of alternatives for improvements, and design of improvements.
05/97 – 08/97	**Gilbert Bayou Channel Improvements, Shreveport, LA** – *Project Engineer*. Analysis of Gilbert Bayou channel improvements using HEC-2, in Caddo Parish for FEMA LOMR application.
02/96 – 03/97	**Clyde E. Fant Parkway, Shreveport, LA** – *Project Engineer*. Design of bridge structures for 632 ft., 4-lane plus median structure across Cross Bayou, a grade separation bridge at Grimmett Dr. and two 2-lane bridge structures at Preston Ave. Drainage design of the interchange on southern extension LA 511 and LA 3132.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**David Joseph Hebert, P.E.**			Years of experience with this firm/employer	9.5
Title	Senior Project Manager			Years of experience with other firm(s)/employer(s)	15
Degree(s) / Years / Specialization			B.S. / 1996 / Civil Engineering / LSU		
Active registration number / state / expiration date			PE 0030416 / LA / 03-31-2023		
Year registered	2002	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge Design - **MPR 4**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/98 - 05/02	**US Highway 82 crossing of the Mississippi River (MDOT Project No. 19-9205-00-002-10 & 20160), Greenville, MS and Lake Village, AR:** *Design Structural Engineer* for Mississippi River bridge crossing on US Highway 82. The **new bridge** had a total length of 2.6 miles. Mr. Hebert assisted in the design of all approach spans on both the Arkansas and Mississippi side. The bridge superstructure included 72-inch concrete bulb tee girders (typical span lengths = 150 feet) and welded plate girders (maximum span length = 360 feet). The bride substructure included concrete drilled shaft pile caps and piers. The **bridge design** included HS-25 truck loading, seismic loading and barge impact loading. Provided value engineering during **final design** and construction cost estimating phase by evaluating superstructure and substructure for spans adjacent to main span for a cost saving of approximately $4 million.
10/04 – 10/05	**Emergency Bridge Repair: I-20 Westbound Over US Hwy 51 (MDOT Project No. IM-0020-01(172)), Jackson, MS**: *Lead Structural Engineer* for emergency repair for major interstate bridge. The bridge repair included repair to damaged steel cap for "pin and link" girder bridge using phase construction design sequence to maintain traffic flow on interstate. Two temporary steel bridge piers were installed at each bent to relieve stress on existing piers to allow for repairs. A detailed sequence for construction was provided to allow traffic flow on the bridge at all times.
07/99 - 08/01	**Old Agency Road over I-55 (MDOT Project No. IM-0055-02(160)), Ridgeland, MS:** *Design Structural Engineer* for **design of bridge replacement** over interstate. The bridge superstructure included 72-inch bulb tee girders (typical span length = 150 feet). The bridge substructure included concrete drilled shaft pile caps and piers. The bridge had a skewed alignment and phased construction. Phase 1 included partial bridge construction with sheet pile shoring at each abutment to allow the original bridge to remain in service. Phase 2 included demolition of the original bridge and the completion of construction.
01/03 – 05/03	**SR 74 over Ragsdale Creek Project, (ALDOT Project No. BR-0102 (528)), Hamilton, AL**: *Lead Engineer / Engineer of Record* for new bridge replacement over Ragsdale Creek. The bridge superstructure included concrete Type II pre-stressed girders. The bridge substructure included concrete drilled shafts with integral bents. The bridge utilized phased construction. Phase 1 included partial bridge construction to allow the original bridge to remain in service. Phase 2 included demolition of original bridge and the completion of construction.
03/01 - 05/05	**Bridge Replacement on Alliance Road Over Warrior River (Jefferson County Commission Project No. JCP-37-61-01), Maxine, AL:** Design *Structural Engineer* for new three span bridge over navigable channel. The bridge had a total length = 720 feet. The bridge superstructure included steel plate girders with inspection platforms beneath the deck. The bridge substructure included concrete drilled shaft pile caps and piers designed for barge impact.

16. Staff Experience

02/01 - 08/01	**Bridge Across Spillway on Eastbound Spillway Road, Pearl River Valley Water Supply District, Flowood, MS:** *Design engineer* for a new 7 span bridge (total length = 507 ft) for spillway road addition south of existing spillway. The bridge superstructure included concrete pre-stressed girders. The bridge substructure included new piers supported atop existing spillway apron.
06/04 - 01/10	**MS SR 463 over CN/IC Railroad and Hoy Road (MDOT Project No. STP-6947-00(004) / 101708302), Madison, MS:** *Design engineer* for preliminary phase of a new curved and skewed 7 span bridge (total length = 1,280 ft) over rail. The bridge superstructure included steel plate girders. The bride substructure included concrete drilled shaft pile caps and piers. The bridge included architectural features, raised sidewalks and a bike path. Part of the preliminary design phase included several 3D renderings and cost estimates.
11/01 - 02/03	**Connector Road Bridge over Natchez Trace Parkway** (**MDOT Project No. NPS-NATR 3P13), Ridgeland, MS**: *Design engineer* for new bridge over Natchez Trace Parkway. The bridge superstructure included a post tensioned, concrete box girder. The bridge substructure included steel H-pile caps and integral bents.
01/99 - 11/03	**Mississippi State Route 57 Bridge Replacements (MDOT Project No. 97-0002-02-048-12), Waynesboro, MS:** *Design engineer* for (3) bridge replacements along MS SR 57. Each bridge was similar in design. The bridge superstructure included pre-stressed concrete girders. The bridge substructure included precast prestressed concrete pile caps and integral bents.
01/97 - 06/97	**Existing Bridge Load Rating, MDOT:** *Engineer* for a bridge rating contract for state of Mississippi. Reviewed construction drawings and inspection reports & performed bridge load ratings for existing bridges across state. Bridge ratings were focused on superstructure for: concrete (box girders, prestressed concrete girders) and steel (plate girders, box girders, truss, bascule). All bridges were rated for HS-20 truck loading and results were presented to client in tables noting substandard bridges.
07/97 - 02/98	**US Highway 84 Bridge Replacements**, **MDOT**: *Design engineer* for four bridge replacements along US Highway 84. Each bridge was similar in design. The bridge superstructure included pre-stressed concrete girders. The bridge substructure included precast prestressed concrete pile caps and integral bents.
06/01 - 10/04	**Airport Parkway Project**, **MDOT, Pearl, MS and Jackson, MS:** *Design engineer* for preliminary phase of large airport parkway / corridor project. The project included several bridges and ramps along proposed parkway from Jackson International Airport in Pearl, MS to downtown Jackson, MS.

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Frank Standige, P.E.**			Years of experience with this firm/employer	5
Title	Senior Project Engineer			Years of experience with other firm(s)/employer(s)	30
Degree(s) / Years / Specialization			B.S. / 1982 / Civil Engineering / LSU		
Active registration number / state / expiration date			No. 0024023 / LA / 03/31/2024		
Year registered	1988	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Mr. Standige will perform constructability reviews on project deliverables and provide support during construction.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
02/20 - Present	**I-20: LA 544 Overpass Replacement, Lincoln Parish, LA:** NSI is managing the **preliminary and final design** services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and **four multilane roundabouts.** This project includes a **level 2 TMP.** s. *Mr. Standige is performing constructability review and consultation.*
12/20 – 02/21	**Juban Road Widening, S.P.N. H.004634:** NSI managed the completion of the **roadway and drainage design services** for this project, which will widen LA 1026 (Juban Rd.), construct **three roundabouts** and two new frontage access roadways, with storm drainage sewer systems.
02/17 – 04/19	**LNG Turn Lanes, LA 27 Permit Project, Cameron Parish** – *Project Engineer* for road construction of asphalt turn lanes and drainage structures. Worked with the DOTD District office to ensure that DOTD requirements were met. Solved construction issues in the field with utility conflicts and drainage issues. Served as liaison between the contractor and DOTD District office. Provided updates to the DOTD District office on construction progress and traffic impacts.
10/08 – 09/12	**I-10/Causeway Interchange Phase 1 and 2 (SPN'S 450-12-0100, 450-15-0103)** - Served as the *Area Construction Engineer* over the new roadway construction of the multi-decked, multi-lane interchange in Metairie. Reviewed **design plans** for quality assurance, reviewed and approved contractor's CPM, monthly estimates, plan changes and related documents. Worked with the design engineering firm, contractor, and DOTD HQ to solve an issue with cracks in the concrete columns. Resolved construction issues and developed plan changes during construction. Project cost - $53M.
03/06 – 09/12	**Huey P. Long Bridge Widening and Approach Ramps Project in Jefferson Parish (SPN's 006-01-0012, 006-01-0018, 006-01-0021)** - Served as the *DOTD District construction coordinator* for the widening and addition of the HPL Bridge. Reviewed consultant's **design plans** for quality assurance and made recommendations for changes. Reviewed contractor's CPM, monthly estimates, plan changes and consultant invoices. Worked with the LTM team to resolve issues during construction. Project cost - $1.2B.
08/06 – 03/09	**I-10 Widening – Causeway to 17th St. Canal, Jefferson Parish (SPN 450-15-0089)** – *Construction Engineer* for the roadway construction widening of the interstate through Metairie. Responsibilities included reviewing design plans for quality assurance, reviewing and approving contractor's monthly estimates, CPM's, and plan changes. Resolved construction issues and worked with the design engineer to make plan changes during construction, due to changing field conditions. Met with the media to update on traffic impacts during construction. Project cost - $79.4M.

16. Staff Experience

06/02 – 03/04	**Clearview Pkwy - Causeway Blvd. (Auxillary Lanes) (SPN 450-15-0098)** – *Project Engineer* for the construction of new concrete auxillary lanes on I-10. Reviewed **design plans** for quality assurance and constructability and made recommendations for improvements. Cost of project $32.3M.
08/02 - 11/03	**Hickory Ave (Relocated LA 3 154, Dickory Extension) (SPN 826-44-0024)** Served as the *Project Engineer* for the construction of a new 4 lane concrete roadway, including drainage. Entergy has large transmission lines going through the median of this project and he had to coordinate closely with them on working around these lines. Reviewed design plans for quality assurance and constructability. The plans had sat on the "shelf" for many years and had to be redesigned in accordance with Mr. Standige's recommendations. Other issues that he dealt with during this project were drainage issues, adjustment of roadway elevations, and historic oak trees. Project cost - $3.1 M.
09/01 - 03/02	**EB I-10 Exit Ramp at Loyola Dr. (SPN 450-15-0114)** Served as the *Project Engineer* for the widening of the Loyola exit ramps on I-10 Eastbound. Reviewed design plans for quality assurance and constructability.
1986 - 1989	**I-310 Bridge (LA 626 - I-10), St. Charles Parish** Served as *Assistant Project Engineer* for the end-on construction of the elevated I-310 bridge. Responsible for reviewing **design plans** for quality assurance and constructability, inspecting the contractor's work to ensure that it meets DOTD specifications, performed materials testing, reviewed plan changes and contractor's monthly estimates, supervised certified inspectors.
Career History	Mr. Standige has 30 years of roadway construction engineering experience working for Louisiana DOTD. He served as District Construction Engineer for 1 year, Area Construction Engineer for 5 years, Construction Project Engineer and Assistant Construction Project Engineer for 24 years. He is thoroughly familiar with all aspects of roadway construction for highways and bridges. He has managed the construction and rehabilitation of numerous complex DOTD projects including superstructures, highways, bridges and overpasses. He is an expert with the constraints imposed by federal and state statutes and regulations. He has been instrumental in developing many plans, specifications and is thoroughly knowledgeable of federal, state and local construction procedures and standards. During his time as Construction Engineer and Area Engineer, he managed the roadway construction of DOTD roads and bridges for his respective area and was responsible for managing project engineers' offices in the construction of multi-million-dollar construction projects. He worked closely with design engineers in reviewing their work for quality assurance and constructability. He approved payment estimates and plan changes in Site Manager, reviewed and approved contractor's CPM's, and schedules.
Training and Certifications	Certified in Work Zone Traffic Control Supervisor and Flagger

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.					
Name	**Connie Standige, P.E.**			Years of relevant experience with this employer	7
Title	Senior Client Manager			Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization			B.S. / 1982 / Civil Engineering		
Active registration number / state / expiration date			No. 24022 / LA / 03-31-2024		
Year registered	1988	Discipline	Civil		
Contract role(s) / brief description of responsibilities			QA/QC for Design		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
Career History	Ms. Standige has 37 years of diversified engineering experience, including 30 years working for Louisiana DOTD prior to joining Neel-Schaffer. Her broad range of experience includes project development, public involvement, design, construction and maintenance of roads, bridges, drainage, and flood control structures. She served for 1.5 years as the Assistant Secretary of Operations for DOTD and 6 months as the Deputy Engineer Administrator in the DOTD HQ over statewide operations. She served for 5 years as the DOTD District Administrator in District 62. During her tenure in these positions some of her main duties were to review design plans, review plan changes, conduct public meetings, and communicate with numerous federal, state, and local agencies and officials, as well as the general public to resolve high profile issues.
06/17 – 09/18	**I-10 New Orleans Master Plan, Port Access Improvements, RPC Project NOI-10MP, State Project No. H.012837.** Created a plan or a program of projects which mitigates the severe congestion extending from Interstate 10 at its interchange with the Pontchartrain Expressway (US 90B / I-910) to the Crescent City Connection (CCC) crossing of the Mississippi River, including connecting ramps and roadways. *Client Liaison*
04/11 – 07/12	**LA 21 at Greenbrier/Zinnia**, St. Tammany Parish - District Administrator over the public involvement, design, and construction of the J-turns on LA 21 to allow only right turns onto LA 21 to improve safety.
2007	**Abita Springs Roundabout – LA 59 at LA 36,** St. Tammany Parish - District Administrator over the construction of the 5-leg Abita Springs Roundabout to improve safety. Reviewed plan changes during construction. **Includes 1 roundabout**
01/10 – 01/12	**I-55 Resurfacing Projects**, Tangipahoa Parish – District Administrator over the design and construction of I-55 overlay projects. Worked with local and state officials, reviewed plans, and reviewed construction plan changes.
09/10 – 01/11	**Brownswitch Road Roundabout**, St. Tammany Parish - District Administrator over the construction of the Brownswitch/LA 1091 Roundabout to improve safety. Reviewed plan changes during construction. **Includes 1 roundabout.**
07/10 – 07/12	**I-12 widening from I/10/59/12 to Northshore Blvd.**, St. Tammany Parish – District Administrator over the design and construction of the widening of I-12 in Slidell. Reviewed design plans and construction plan changes.
07/10 – 07/12	**I-12/LA 1088 Interchange**, St. Tammany Parish - District Administrator over the design and construction of the new interchange, including tie-in to the I-12 overpass. Reviewed design plans and construction plan changes.
07/10 – 07/12	**I-12/US 51B Roundabouts**, Tangipahoa Parish - District Administrator over the conceptual and preliminary design of the 3 roundabouts along US 51B at I-12 in Hammond to improve safety. Reviewed conceptual plans. Communicated with the consultant and local and state officials to resolve issues. **Includes 4 roundabouts**.

16. Staff Experience

07/10 – 09/10	**LA 3158 Roundabout**, Tangipahoa Parish - District Administrator over the design and construction of the LA 3158/Old Covington Hwy. Roundabout to improve safety. Reviewed design plans and plan changes during construction. Communicated with local and state officials, as well as the public, to resolve issues. **Includes 1 roundabout**.
01/09 – 07/12	**I-12 to Bush Corridor**, public involvement, including public hearings, and conducting meetings with local and state elected officials on the different phases of the project and for the route selection, based on US Corps of Engineers comments and criteria.
01/06 – 01/08	**US 190 Widening**, Mandeville, St. Tammany Parish, District Administrator over the construction of US 190 Widening project. Conducted public meetings and meetings with state and local officials to discuss US 190 widening issues, including drainage concerns and traffic concerns. Additional guidance signs were placed during construction and a reconfiguration of drainage was made during construction near the Greenleaves Subdivision to help resolve flooding concerns.
05/05 – 08/08 07/10 – 07/12	**District Administrator for District 62** over the development, design, and construction of the highway preservation, bridge preservation, safety program, and traffic improvement program in District 62. Tasks included prioritizing projects, reviewing designs and analysis, reviewing construction cost estimates, and reviewing construction plan changes.
12/98 – 05/05	**Assistant Maintenance Engineer** for DOTD District 02 responsible for developing and implementing maintenance projects, review of maintenance design plans, and management of DOTD buildings and equipment.
04/88 – 12/98	**Design Engineer** for DOTD District 02 responsible for the design of hydraulics, hydrology, flood control structures, drainage, and box culverts, review of permits and conducting levee inspections, as well as roadway design.
10/85 – 04/88	**Assistant Project Engineer** for numerous construction project in DOTD District 02. Some of the projects included I-310 elevated section from LA 48 to LA 626 and the widening of LA 49.
08/82 – 10/85	**Assistant Project Engineer** for numerous construction project in DOTD District 04.

16. Staff Experience

Crescent Engineering & Mapping, LLC					
	**Dennis M. Hymel, Jr., PE** Engineering Manager			**Years of relevant experience with this employer**	1
				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 / 09/30/2023		
Year registered	2013	**Discipline**	P.E./Civil Engineering		
Contract role(s) / brief description of responsibilities			**Bridge Design Lead/EOR**. Dennis will lead the bridge design effort, oversee bridge plan production and serve as the bridge EOR. Dennis fulfils MPR #4 for a registered PE with a minimum of 5 years' experience in responsible charge of bridge design.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/16 – 08/21 *(previous employer)*	**SP No. H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway design including H&V geometrics and drainage, prepared Level 4 TMP and construction phasing plans. Designed single slope TL-4 median barriers on concrete footings, special median barrier transitions for lighting; Quality Control & bridge design engineer for the widening of Pontchatolawa Creek and Tammany Trace bridges including AASHTO Type III prestressed girders with varying skewed, bobtail spans and LRFR. Quality Assurance engineer for widening of US 190 bridges including AASHTO Type II & IV prestressed girders. Performed Construction Support Services. Design completed under an **accelerated project schedule.**
03/14 – 08/21 (previous employer)	**SP H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Project Manager/ Engineer of Record. Lead design engineer responsible for roadway design including hydraulics, roadway H&V geometrics, superelevation, intersection design, R-CUT intersections, prepared Level 3 Traffic Management Plans and oversaw roadway plan production, performed plan QA/QC of five-span, AASHTO Type III girder bridge for the new 5.5-mile, four-lane rural roadway from LA 435 to Bush.
09/18 – 08/21 (previous employer)	**SP No. H.001344, US 190: LA 437 to US 190 BUS (Ph. 1), St. Tammany Parish (LADOTD)** – Quality Control Manager. QC/QA of roadway design elements including horizontal and vertical geometry, intersection design, oversight of roadway plan production for one mile of 5 lane urban roadway reconstruction. Responsible for bridge design report, QC of bridge plan development for a horizontally curved, superelevated, 1400-foot-long bridge over the Bouge Falaya River using LG 36 and LG 54 prestressed concrete girders, 30' rectangular column bents, low water pier foundations. Coordinated utility conflicts and relocations, prepared cost estimates.

16. Staff Experience

03/22 – Ongoing	**Tangipahoa Parish Off-System Bridge Replacement (4 Sites), Tangipahoa Parish (Tangipahoa Parish Government) –** Project Manager/Lead Engineer. Responsible for all roadway horizontal/vertical alignments, roadway and bridge hydraulic analysis, retaining wall design, LRFD bridge design, oversight of plan preparation, coordination/oversight of geotechnical for the replacement of four (4) bridge RC Slab Span sites throughout Tangipahoa Parish on E. Lewiston Rd., Easley Rd. and Old Genessee Rd. (2) sites.
05/15 – 04/18 (*previous employer*)	**SP 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 continuous Off-System bridge.
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/Engineer of Record. Led contract negotiations, performed QC review of topographic surveys, served as the EOR 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, oversight of geotechnical services and environmental permitting, Environmental checklists, SOV's, CE document preparation and permit applications for the **spot replacement of 47 bridge structures in northern Louisiana containing Fifteen (15) State Project Numbers.**
03/16 – 02/19 (previous employer)	**SP H.011670, I-10/Loyola Interchange Improvements, Jefferson Parish, LA (LADOTD)** – Project Manager/Lead Engineer. Lead design team for Line and Grade studies and the Environmental Assessment (EA), assisted in preparation of the EA document, critical geometry, interchange modification and alternative screening, lead engineer for the design of a four-level stacked, directional interchange ($150 MM) including roadway and bridge, curved steel plate and prestressed concrete girder bridges, urban roadway sections, major utility conflict assessments, cost estimates, public meetings and quality control for a diverging diamond interchange (DDI) for the new interchange on I-10 at Loyola Dr. for the new airport terminal at Louis Armstrong Int'l Airport (MSY).
03/18 – 04/21 (previous employer)	**S.P. 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, hydraulics, foundation layout, and bridge plan production for the 7-span bridge replacement near Rayville, LA.
01/12 – 08/15 (previous employer)	**S.P. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Staff Engineer. Performed roadway and bridge design including special 23' spans for the three-lane, 210' long bridge over Bayou Lafourche, LRFR of special bents and spans, prepared bridge plans and details.
02/10 – 01/12 (previous employer)	**SP 450-10-0159, I-10 Widening (Siegen Lane to Highland Rd.), East Baton Rouge Parish, LA (LADOTD) –** Staff Engineer. Prepared roadway design plans including development of H&V geometry, drainage design, DB team coordination, construction support, structural design of cantilevered concrete retaining walls, barriers and footings, barrier mounted light poles & signage, cost estimation for the widening of I-10 in Baton Rouge, LA.

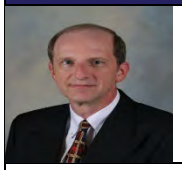
16. Staff Experience

Crescent Engineering & Mapping, LLC					
	**Abbey F. Falcon, P.E.** Project Engineer			**Years of relevant experience with this employer**	<1
				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 / 03/31/2024		
Year registered	2021	**Discipline**	P.E./Civil Engineering		
Contract role(s) / brief description of responsibilities			**Bridge Project Engineer** – Abbey will assist with bridge design and will lead bridge plan preparation and detailing.		
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 – 04/22 *(previous employer)*	**S.P. H.013953, McManus Road Bridge/Cypress Creek, Richland Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, prepared bridge TS&L, prepared roadway and bridge plans, design report forms, design criteria for the eight (8) span bridge replacement.				
04/20 – 05/22 (previous employer)	**S.P. H.013955, LA 507, 514, Local: Bayou and Cr BRs, Red River Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, curved bridge sites, prepared roadway and bridge plans, design criteria for the **replacement of seven (7) LADOTD On-System bridges**.				
04/20 – 04/22 (previous employer)	**S.P. H.013987, LA 521: Bridges Near Dykesville, Claiborne Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, superelevation, drainage, bridge TS&L, prepared roadway and bridge plans, design report & criteria forms for the **replacement of three (3) LADOTD On-System bridges**.				
06/18 – 04/21 (previous employer)	**S.P. 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 7-span bridge replacement near Jena, LA.				
04/20 – 02/22 (previous employer)	**S.P. H.013954, Pleasant Ridge/Rabbit Branch, LaSalle Parish, LA (LADOTD) –** Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, prepared bridge TS&L, prepared roadway and bridge plans, design report forms, design criteria for the 3-span span bridge replacement.				

16. Staff Experience

05/17 – 08/21 (previous employer)	**SP H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD) –** Project Engineer. Assisted with all roadway design elements on the 4-mile Interstate widening project including geometrics, Level 4 TMP and drainage. Prepared quantities, Inroads roadway modeling, summary sheets, typical sections, detailing, Sequence of Construction sheets, prepared preliminary and final roadway plans. Accelerated project schedule.
04/18 – 10/21 (previous employer)	**SP H.001344, US 190: LA 437 to US 190 BUS (Ph. 1), St. Tammany Parish (LADOTD)** – Project Engineer. Assisted with all roadway design elements on the 1-mile Urban, multi-lane roadway widening project including geometrics and drainage. Prepared quantities, performed Inroads roadway modeling, prepared summary sheets, typical sections, detailing, assisted with the preparation of preliminary and final roadway plans.
03/21 – 07/22 (previous employer)	**SP H.014233, LA 160: Cypress Bayou and Relief Bridges, Bossier Parish, LA (LADOTD)**– Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, prepared roadway and bridge plans up to 60% Final Plans, design criteria for the replacement of **two (2) LADOTD On-System bridges**.
07/22-Ongoing	**Old Genessee Rd. Bridges/Creeks, Tangipahoa Parish, LA (Tangipahoa Parish) –** Lead Engineer – Responsible for roadway and bridge design including TS&L, bridge hydraulics and plan production for the replacement of two (2), 3-span Off-System timber bridges near Tickfaw, LA
05/17 – 08/21 (previous employer)	**S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Project Engineer. Assisted with all roadway design elements on the 5.5 rural, 4-lane corridor project including geometrics and drainage design. Prepared quantities, performed Inroads roadway modeling, prepared summary sheets, typical sections, detailing, Sequence of Construction sheets, prepared preliminary and final roadway plans.
03/21 – 07/22 (previous employer)	**SP H.014217, LA 537: Bridges Near Plain Dealing, Bossier Parish, LA (LADOTD)**– Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, prepared roadway and bridge plans up to 60% Final Plans, design criteria for the replacement of **three (3) LADOTD On-System bridges**.
03/21 – 07/22 (previous employer)	**SP H.014231, LA 153: Topy Creek Relief & Drain Bridges, Bienville Parish, LA (LADOTD)**– Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, prepared roadway and bridge plans up to 60% Prelim Plans for the replacement of **four (4) LADOTD On-System bridges**.
07/17 – 06/21 (previous employer)	**S.P. H.013116, LA 20 Widening (LA 307 to S. Vacherie), St. James & Lafourche Parishes (LADOTD)** – Project Engineer. Assisted with H&V geometrics, roadway drainage design, roadway and bridge plan production, Inroads modeling, quantity calculations for the 2.7 mile rural safety widening project including split phased bridge construction of the RC slab span bridge over unnamed Bayou.

16. Staff Experience

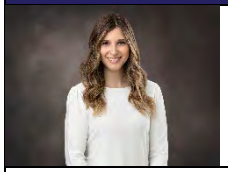
Crescent Engineering & Mapping, LLC					
	**James P. Ledet, P.E., F. ACEC** Quality Control Engineer			**Years of relevant experience with this employer**	<1
				Years of relevant experience with other employer(s)	44
Degree(s) / Years / Specialization			Bachelor of Science/1982/Civil Engineering		
Active registration number / state / expiration date			22428 / LA / 03/31/2024		
Year registered	1986	**Discipline**	P.E./Civil Engineering		
Contract role(s) / brief description of responsibilities			**Bridge Quality Control Engineer** – Jimmy will serve as the bridge Quality Control engineer		

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).
05/15 – 08/17 *(previous employer)*	**SP H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Senior Supervising Engineer. Supervision and oversight of roadway design including QC of hydraulic analysis, geometrics and supervision of plan production for the new 5.5-mile, four-lane RA-3 roadway from LA 435 to Bush, LA.
11/10 – 06/14 (previous employer)	**SP 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 bridge replacement.
11/13 – 11/18 (previous employer)	**SP H.010557, Lajaunie Road/Lateral 1 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 200' quad-beam, superelevated, curved structure including roadway upgrades to RL-3 criteria.
03/10 – 05/14 (previous employer)	**SP 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 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.

16. Staff Experience

1997-2011 (previous employer)	**SP 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 moveable bridge replacement with a single-leaf, bascule span bridge.
02/05 – 05/08 (previous employer)	**SP 246-01-0054, Route LA 57: Grand Caillou Road, Terrebonne Parish, LA (LADOTD)** – Engineer of Record. Responsible for all roadway design aspects including and subsurface drainage design; construction support and topographic survey for two-mile long UA-2, five-lane widening project.
11/99 – 01/01 (previous employer)	**SP 742-07-0019, Bayou Gardens Blvd. Widening: LA 659 to Alma St., Terrebonne Parish, LA (LADOTD)** – Engineer of Record/Project Manager. Responsible for topographic surveying, roadway design including geometrics and intersection improvements and subsurface drainage design for the one-mile UA-2 widening project.
1994 – 1997 (previous employer)	**SP 413-01-0011, Hollywood Rd./LA 311 Intersection Improvements/Bridge Replacement, Terrebonne Parish, LA (LADOTD)** – Engineer of Record/Project Manager. Responsible for design of roadway, hydraulics, utility relocations, drainage improvements, bulkheads and bridge design services for intersection improvement and bridge replacement project.
1993 - 1997 (previous employer)	**SP 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 steel lift span bridge replacement (using towers from Pinhook Rd. bridge) for preliminary and final plans.
1985 - 1991 (previous employer)	**SP 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) bridges and associates 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)	**SP 742-05-0042, Combon Bridge and Approaches, Terrebonne Parish, LA (LADOTD)** – Project Manager. Responsible for EIS document and design of new 100 Ft. vertical lift span across Grand Caillou including roadway approaches and shop drawing reviews during construction.
1984 - 1986 (previous employer)	**SP 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

Crescent Engineering & Mapping, LLC					
	**Kelly G. Jones** Sr. Technician			**Years of relevant experience with this employer**	<1
				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			**Sr. Technician** – Bridge Design. Kelly will assist with the preparation of bridge plans and details.		
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).				
02/19 – 04/20 *(previous employer)*	**SP No. H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD)** – Project Technician. Assisted with the preparation of roadway and bridge plans, temporary erosion control plans, summary of estimated quantities, quantity summary sheets, bridge quantity calculations, cost estimate preparation, title sheet and typical sections and details. Design completed under an **accelerated project schedule.**				
01/19 – 11/19 (previous employer)	**SP H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Project Technician. Assisted with the preparation of roadway plans including typical sections, cross sections, detail sheets, summary of estimated quantities, quantity summary sheets, title sheet and performing advanced plan checks including Right of Way maps for the new 5.5-mile, four-lane rural roadway from LA 435 to Bush.				
11/19 – 09/20 (previous employer)	**SP No. H.001344, US 190: LA 437 to US 190 BUS (Ph. 1), St. Tammany Parish (LADOTD)** – Project Technician. Assisted with the preparation of roadway plans including utility relocation plans, detail sheets, summary of estimated quantities, quantity summary sheets, calculating roadway quantities, performing advanced plan checks of roadway plans vs. bridge plans, assisted with preparing cost estimates.				
01/22 – 03/22 (previous employer)	**SP No. H.014238, LA 818: Barnet Springs & Creek Bridges, Lincoln Parish (LADOTD) -** Project Technician. Assisted with the preparation of roadway and bridge plans including typical sections, plan/profiles, detail sheets, summary of estimated quantities, title sheet for the replacement of two (2) on-system bridges in Lincoln Parish.				
12/21 – 03/22 (previous employer)	**SP No. H.014218, LA 2A: Thorny Branch & Indian Creek BRs, Webster Parish (LADOTD) -** Project Technician. Assisted with the preparation of roadway plans including typical sections, plan/profiles, detail sheets, summary of estimated quantities, title sheet for the replacement of two (2) on-system bridge reaplcements in Webster Parish.				

16. Staff Experience

Firm employed by	Vectura Consulting Services, LLC				
Name	Sheelagh Brin Ferlito, PE, PTOE		Years of experience with this firm/employer	7	
Title	Principal		Years of experience with other firm(s)/employer(s)	27	
Degree(s) / Years / Specialization			B.S. / 1988/ Civil Engineering		
Active registration number / state / expiration date			PE.0025383 / LA 9/30/2023		
Year registered	1993	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Traffic Signal Design Supervisor / QC for TMP		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
07/19 – current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA)** Brin is the project manager for the **temporary and permanent traffic signal plans** for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by Louisiana DOTD. She coordinated the detour plans based on the sequence of construction as part of the **Level 2 Transportation Management Plan (TMP**).
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish)** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at the Tanger Boulevard. Vectura also developed **signal timing plans** for each phase of the construction to maintain progression along LA 30.
02/20 – 11/21	**H.010616 DOTD I:20 LA 544 Overpass Replacement (Ruston, LA)** Brin was the project manager for the **Transportation Management Plan (TMP)** as part of a design for a bridge replacement and three roundabouts in Ruston, LA. The TMP was a **Level 2** and included evaluation of 10 Sequence of Construction Phases. Detours included rerouting traffic to other interchanges at nighttime only, rerouting traffic from I-20 to the off ramp and on ramp at nighttime only, and rerouting traffic to service roads in vicinity of the project. Brin coordinated the queue analysis with DOTD to determine when lane closures would be allowed utilizing 24-hour tube counts. She will also coordinate the development of temporary traffic signal plans for this project as well.
09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA** Brin developed a formal traffic study for a proposed crosswalk with pedestrian **traffic signal equipment and pedestrian clearance timings** based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of **Traffic Signal Modification Plans** were developed to implement the recommended alternative.

16. Staff Experience

Firm employed by	Vectura Consulting Services, LLC				
Name	Laurence Lucius Lambert, II, PE, PTOE, PTP			Years of experience with this firm/employer	7
Title	Supervisor			Years of experience with other firm(s)/employer(s)	18
Degree(s) / Years / Specialization			B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010		
Active registration number / state / expiration date			PE.0029901 / LA / 3/31/2024		
Year registered	2001	Discipline	Civil		
Contract role(s) / brief description of responsibilities			TMP Supervisor / Traffic Signal Design QC		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
02/21 - 03/21	**H.013256.5 I-10 ITS Scott to Lake Charles (Southwest Louisiana)** Laurence was the lead traffic engineer for a Level 2 **Traffic Management Plan** (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**.
02/20 – 11/21	**H.010616 DOTD I:20 LA 544 Overpass Replacement (Ruston, LA)** Laurence provided a QC for the Level 2 **Transportation Management Plan (TMP)** as part of a design for a bridge replacement and three roundabouts in Ruston, LA.
04/11 - 09/11	**SPN 424-04-0032 US 90 at Louisiana 85 Design-Build Maintenance of Traffic Plan (Iberia Parish, LA)** Laurence developed a **Maintenance of Traffic** plan that accommodated the bridge and road widening, but also maintain passage of large trucks and freight through the heavily travelled corridor crucial for agricultural goods and farming. Laurence was the Lead Traffic Engineer for one of the first design-build projects undertaken by DOTD, which included the construction of a grade separated, diamond interchange to replace the existing US 90 intersections with Louisiana 85 in Iberia Parish to upgrade this future I-49 corridor to interstate standards.
06/10 - 10/10	**SPN 454-02-0071 I-12 Widening Design-Build Amite River Bridge to Juban Road Maintenance of Traffic Plan (Livingston Parish, LA)** Laurence was responsible for designing a **Maintenance of Traffic** plan that would keep drivers informed of real time traffic situations through a comprehensive traffic management system. Four lanes (two lanes in each direction) were to remain open during peak travel times throughout the length of the project. Temporary lane closures only occurred at night.

The Neel-Schaffer design Team has obtained the as-built plans and completed a site visit. We understand that there is existing superelevation along the project which must be addressed as part of the design. The Neel-Schaffer design team will ensure that both roadway and bridge design teams communicate early and often in the design process to resolve any discrepancies and competing demands of roadway geometry and superelevation to bridge geometrics and constraints, especially in superelevation transitions or runouts.

Section 17

CONTRACT NO. 4400024641
IDIQ Contract for LA 447 Corridor

17. Firm Experience

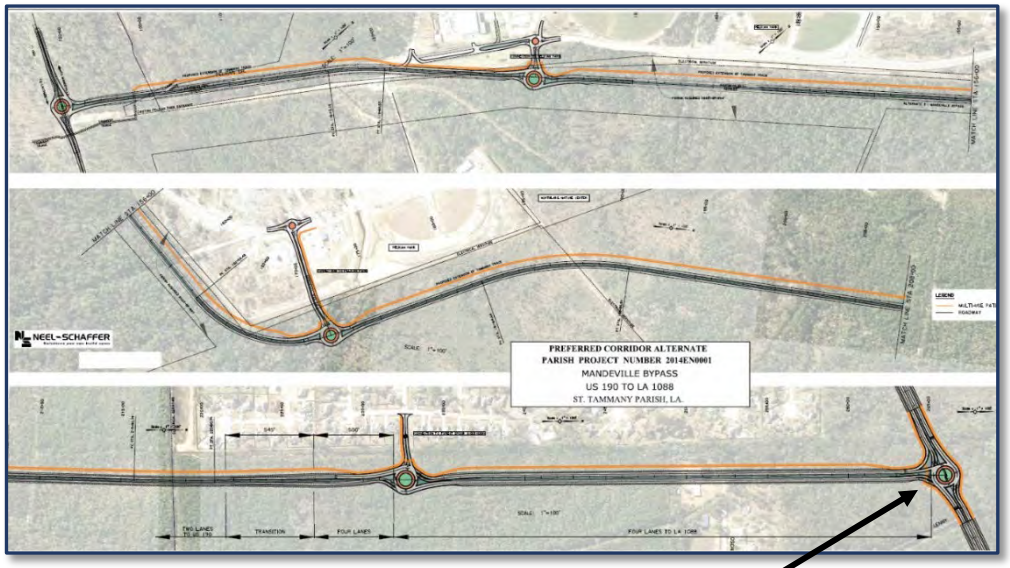
Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	Road, Traffic	
Project name	**Mandeville Bypass**		Firm responsibility (prime or sub?)	Sub	
Project number	N/A	Owner's name	St. Tammany Parish		
Project location	Mandeville, LA		Owner's Project Manager	Laura B. Gatlin, PMP	
Owner's address, phone, email	620 N Tyler Street, Covington, LA 70434, Phone: 985.898.2552, Email: lcbeach@stpgov.org				
Services commenced by this firm (mm/yy)	07/15	Total consultant contract cost ($1,000's)		$2,000	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$450	

The Mandeville Bypass will provide a new 3-mile median section roadway with integral bike bath connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will also provide multiple entrances to Pelican Park, a major recreation facility serving west St. Tammany Parish.

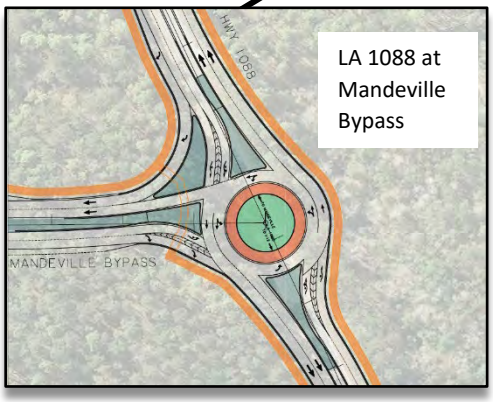
Neel-Schaffer is managing the public involvement, developing traffic forecasts, providing traffic analysis, **completing the preliminary and final roadway plans**, **traffic control design**, utility coordination, construction **cost estimates,** and **construction support**. The project includes roundabout intersections at connecting state routes as well as a pedestrian and bicycle path integral with the route design. Neel-Schaffer is also leading the environmental planning for the project as well as permitting as may be required.

Challenge: Pipeline conflicts
Solution: NSI coordinated closely with pipeline owners, assisted with locating lines and depths in the field and based on map data and provided revisions to drainage design to provide the necessary cover. The final roadside drainage included concrete lined ditches over the pipelines.

Key Personnel: Jerry Trumps (Principal), Dishili Young, Mai Nguyen, Chance Shuckrow, Josh Schexnider & Scott Andrepont (L&G Engineering), Barry Brupbacher (Environment Lead and Public Involvement), Vijay Kunada (Traffic forecast & analysis)



Project Relevance - Designed using the DOTD guidelines and software; includes similar design SOW (roundabouts, roadway widening, roadway realignment and reconstruction); project requires LADOTD review and approval

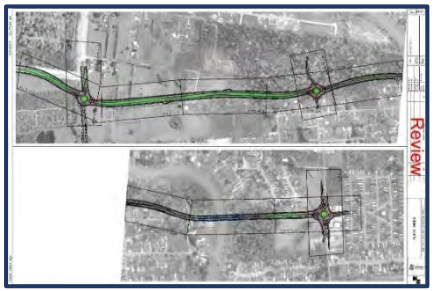


LA 1088 at Mandeville Bypass

17. Firm Experience

Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	Road, Bridge	
Project name	**Southcity Parkway Extension**		Firm responsibility (prime or sub?)	Prime	
Project number	500-15-082/PO 156297	Owner's name	Lafayette Consolidated Government		
Project location	Lafayette, LA		Owner's Project Manager	Mitchell P. Wyble, PE	
Owner's address, phone, email	P.O. Box 4017 – C, Lafayette, LA 70502; (337) 291-8542 mhollier@lafayetteLA.gov				
Services commenced by this firm (mm/yy)	11/15	Total consultant contract cost ($1,000's)	$750		
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$750		

Southcity Parkway will provide a new 1.8-mile, 4-lane median divided roadway connecting US 167 (Johnston Street) with Kaliste Saloom Road, including **3 multilane roundabouts** and a **new fixed span bridge crossing** of the Vermillion River. Neel-Schaffer, Inc. (NSI) is providing design services which include **roadway, bridge, and drainage design**. The roadway design is in conformance with the LADOTD guidelines with the use of MicroStation and InRoads.

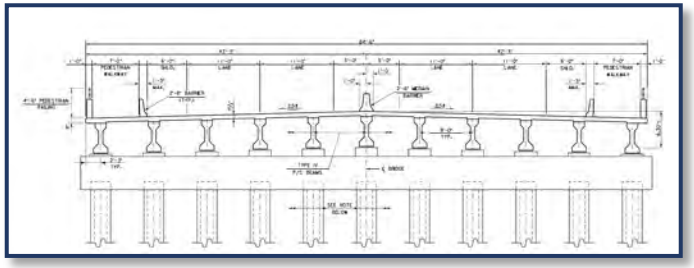


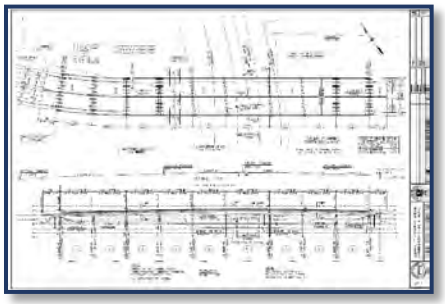
Neel-Schaffer completed the roadway and bridge design, established US Coast Guard navigation clearances; completed an H&H analysis for the new proposed Vermilion River bridge crossing, obtained the no rise certification, and completed an H&H analysis for each drainage crossing and the roadway drainage system. The road design was completed using InRoads and MicroStation. The Vermilion River bridge crossing was analyzed using a one-dimensional unsteady flow model which was developed in HEC-RAS software. The roadway drainage for the two-mile roadway corridor was analyzed with the use of LADOTD software. Peak flows were determined with the use of the rational method, with considerations for future development. The results were summarized in the form of a technical report.

In addition to providing the design services, Neel-Schaffer is also providing the environmental planning (Environmental Assessment, USCG permit, navigation studies), completed the public involvement, developed traffic forecasts, provided traffic analysis, and will provide construction services.

Key personnel: Key personnel involved: Jerry Trumps (Principal), Vijay Kunada (PM, Traffic forecast & analysis), Dishili Young, Mai Nguyen, Chance Shuckrow & Scott Andrepont (L&G Engineering), Barry Brupbacher (NEPA Documents, Public Involvement Lead and Navigation Study), Charles Adams.

Project Relevance - Designed using the DOTD guidelines and software; includes similar design SOW (bridge design, roundabouts, roadway widening, roadway realignment and reconstruction)





17. Firm Experience

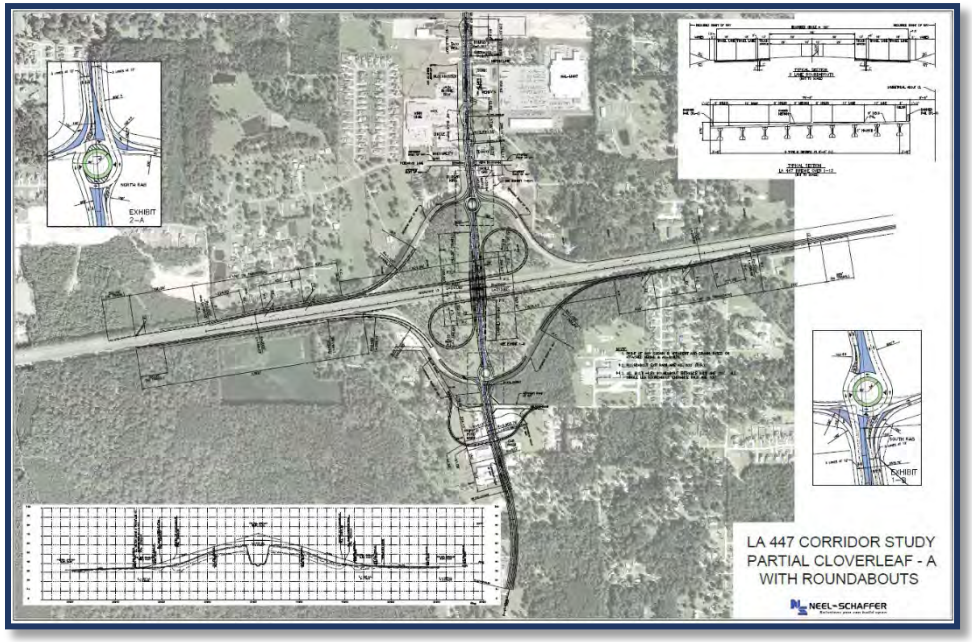
Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	Road, Traffic	
Project name	**LA 447 Corridor Study**		Firm responsibility (prime or sub?)	Prime	
Project number	4400000651 & 4400002630	Owner's name	LADOTD		
Project location	Livingston Parish, LA		Owner's Project Manager	Jody Colvin, PE	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA ; 225-242-4635; jody.colvin@la.gov				
Services commenced by this firm (mm/yy)	01/11	Total consultant contract cost ($1,000's)	$470		
Services completed by this firm (mm/yy)	1/14	Cost of consultant services provided by this firm ($1,000's)	$750		

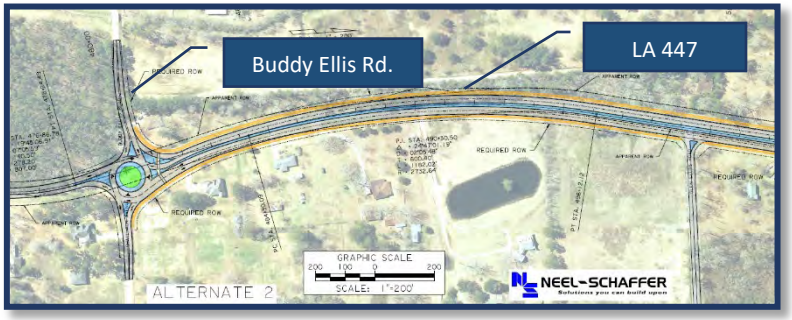
Project Relevance - Designed for this project (H.005734) using the DOTD guidelines and software; provided base geometry for this project; completed for DOTD by the team members included in this submittal

NSI performed a corridor study and **developed the horizontal and vertical geometry (InRoads alignments), and layouts for LA 447** from the railroad tracks near Keith Street to LA 16 (approximately 10.2 miles) in Walker, LA (Livingston Parish). The purpose of the study was to determine the best mobility and safety alternative for the LA 447 corridor. The study included evaluation of various alternatives along the LA 447 corridor and identified potential concepts to improve the corridor mobility and safety. Neel-Schaffer created the layout sheets with horizontal geometry for the corridor and provided cost estimates. **Neel-Schaffer's geometry formed the foundation for the geometry which was carried forward in the LA 447 EA project.**

Based on the results of the modeling of these alternatives and discussions with LADOTD, short-term and long-term improvements were developed and **modeled using the VISSIM software**. Based on these short-term and long-term improvements, an Alternative Analysis Report was prepared documenting the recommended improvements. In addition, an Implementation Plan was included to document the phasing of short-term and long-term projects to include project cost and time frame. This project provided the basis for the Environmental Assessment.

Key Personnel: Jerry Trumps (Principal), Nick Ferlito, Brin Ferlito, Prasanth Malisetty, Mai Nguyen, Chance Shuckrow, Scott Andrepont.





17. Firm Experience

Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	Road, Traffic	
Project name	**I-20: LA 544 Overpass Replacement**		Firm responsibility (prime or sub?)	Prime	
Project number	H.010616	Owner's name	LADOTD		
Project location	Lincoln Parish, LA		Owner's Project Manager	Jacob Fusilier, P.E.	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804; (225) 379-1065; peggy.paine@la.gov				
Services commenced by this firm (mm/yy)	02/20	Total consultant contract cost ($1,000's)		$1,064	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$990	

Neel-Schaffer is currently working on the 95% final plans for this project. NSI is responsible for providing the **preliminary and final roadway plans, traffic control design QA/QC, TMP QA/QC, Sequence of Construction, hydraulic analysis and design,** and construction **cost estimates.** This project will replace the LA 544 Overpass diamond interchange with a roundabout diamond interchange. The project includes a new bridge over I-20, roadway widening (from 2 to 4 lanes), sidewalks and four multilane roundabouts. The 4 roundabouts will be constructed with locations as follows: on LA 544 at the I-20 entrance/exit ramp intersections and on LA 544 at its intersections with the frontage roads (Woodward Avenue & S. Service Road). The bridge design and retaining wall design will be completed by DOTD.

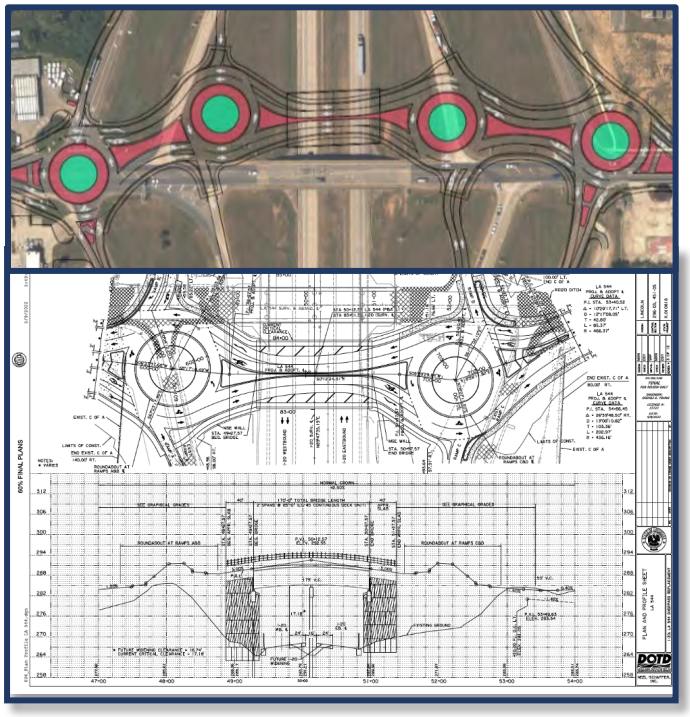
Challenges:

1. Large grade changes required along ramps without impacts to the gores.
2. Structural design by DOTD while roadway design is completed by consultants.

Solutions:

1. NSI provided for a variation in the ramp design speed (between the ramp proper and terminal) which provided ramp vertical alignments that met the design requirements but prevented changes in access that might require an IMR.
2. NSI completed the design in close coordination with DOTD early on and continually during the design process. NSI proposed alignments minimized the construction phasing for retainage walls, provided for interstate clearances which would allow for future interstate widening and simplified the bridge design effort for DOTD while minimizing impacts. NSI and DOTD are working as one team to successfully complete the project.

Key Personnel: Jerry Trumps (Principal), Dishili Young (Project Manager), Mai Nguyen (Design Engineer), Chance Shuckrow (Design Engineer), Scott Andrepont (Design Engineer), Josh Schexnider (Design), and Frank Standige (Constructability)



Project Relevance - Designed using the DOTD guidelines and software; includes similar design SOW (roundabouts, roadway widening, roadway realignment, bridge design and reconstruction) and completed for DOTD

17. Firm Experience

Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	Road, Traffic	
Project name	**LA 1026 (Juban Rd) Widening (I-12 to US 190)**		Firm responsibility (prime or sub?)	Prime	
Project number	H.004634	Owner's name	Livingston Parish / DOTD		
Project location	Livingston Parish, LA		Owner's Project Manager	Peggy Paine, P.E.	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804; (225) 379-1065; peggy.paine@la.gov				
Services commenced by this firm (mm/yy)	08/12	Total consultant contract cost ($1,000's)		$877	
Services completed by this firm (mm/yy)	03/19	Cost of consultant services provided by this firm ($1,000's)		$877	

Neel-Schaffer, Inc. (NSI) was selected as prime consultant to complete the **preliminary and final roadway plans**, **hydraulic analysis and design**, construction **cost estimates,** and **construction support**. The project will widen existing LA 1026 (Juban Road) from an existing two-lane road with side ditches to a four-lane Blvd with storm sewer drainage, roadside ditches and a combination of both along select segments of the roadway. The proposed improvements include major cross drain extensions and 10-foot side paths on both sides of the roadway corridor. The intersection of La 1026 (Juban Road)/US 190 (Florida Blvd) will be improved with a roundabout in this project. This project will commence at the intersection of LA 1026 (Juban Road) and the I-12 north interchange ramps and continue to the intersection of LA 1026 (Juban Road) and US 190 (Florida Blvd) and end approximately 2,000 feet east and west along US 190 (Florida Blvd) from the intersection of LA 1026 (Juban Road). The various Tasks performed under this Stage 3 Design Contract are as follows:

Project Relevance - Designed using the DOTD guidelines and software; includes similar design SOW (roundabouts, roadway widening, roadway realignment and reconstruction); completed for DOTD

Part I: Surveying Services
Part II: R/W Acquisition and Utility Relocation
Part III: Preliminary Plans
Part IV: Final Plans
Part VI: Inspection Services
Part VII: Construction Proposal

Key Personnel: Jerry Trumps (principal), Dishili Young (project manager/engineer of record), Chance Shuckrow (Design Engineer), Scott Andrepont (Design Engineer), Mai Nguyen (Design Engineer), Josh Schexnider (Design), and Charles Adams (Traffic Control Plans)

17. Firm Experience

Firm name	**Crescent Engineering & Mapping, LLC**	**Past Performance Evaluation Discipline(s)***	Bridge
E. Lewiston Rd. Bridge over Wilson Branch		**Firm responsibility (prime or sub?)**	Prime
Project number		**Owner's name**	Tangipahoa Parish Government
Project location	Kentwood, LA	**Owner's Project Manager**	Misty Evans, P.E.
Owner's address, phone, email	206 E. Mulberry St., Amite, LA 70422 985-244-6880 mevans@tangipahoa.org		
Services commenced by this firm (mm/yy)	03/22	**Total consultant contract cost ($1,000's)**	$190
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$131

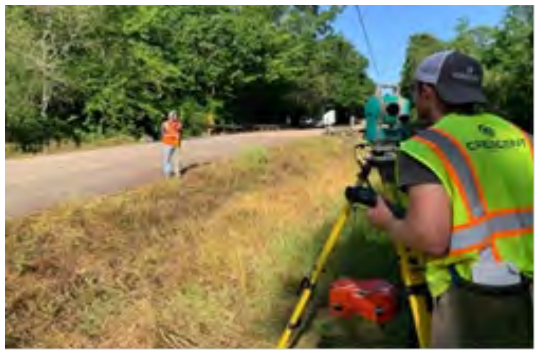
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to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

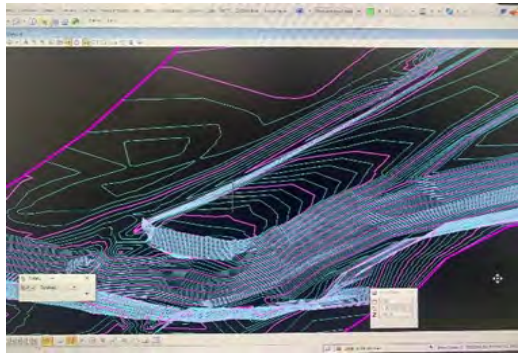
The E. Lewiston Rd./Wilson Branch Bridge Replacement project involves the replacement of 4-span structurally deficient timber trestle bridge in Tangipahoa Parish near Kentwood, LA. The project includes topographic surveys, property surveys, bridge design, roadway design, geotechnical, environmental and contract management. Project scoping and design is per LADOTD requirements including plan production.

Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for the topographic surveys, hydraulic analyses and modeling, roadway design, bridge design, utility surveys and roadway/bridge plan production. The project's topographic survey (140' x 1500' DTM) was conducted to LADOTD standards and processed in Bentley Microstation/Inroads. Hydraulic analysis was performed using HEC-RAS and HEC-HMS as well as LADOTD HYDRWIN programs for roadside drainage. LADOTD design criteria are being followed and design drawings are also being developed as traditional LADOTD plans using Bentley Microstation/Inroads due to anticipated federal funding.

Crescent has completed the topographic surveys and hydraulics report. Preliminary plans are currently underway along with environmental and geotechnical services.

Team Members Highlighted in this Proposal: Dennis M. Hymel Jr., PE, Kelly Jones





17. Firm Experience

Firm name	**Crescent Engineering & Mapping, LLC**	**Past Performance Evaluation Discipline(s)***	Bridge
Old Genessee Rd. Bridges over Creeks (2 Sites)		**Firm responsibility (prime or sub?)**	Prime
Project number		**Owner's name**	Tangipahoa Parish Government
Project location	Tickfaw, LA	**Owner's Project Manager**	Misty Evans, P.E.
Owner's address, phone, email	206 E. Mulberry St., Amite, LA 70422 985-244-6880 mevans@tangipahoa.org		
Services commenced by this firm (mm/yy)	03/22	**Total consultant contract cost ($1,000's)**	$296
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$217

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

The Old Genessee Rd./Creeks Bridge Replacement project involves the replacement two (2) structurally deficient timber trestle bridges in Tangipahoa Parish near Tickfaw, LA. The project includes topographic surveys, property surveys, bridge design, roadway design, geotechnical, environmental and contract management. Project scoping and design is per LADOTD requirements including plan production.

Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for the topographic surveys, hydraulic analyses and modeling, roadway design, bridge design, utility surveys and roadway/bridge plan production. The project's topographic survey (140' x 3200' DTM) was conducted to LADOTD standards and processed in Bentley Microstation/Inroads. Hydraulic analysis was performed using GEOHEC-RAS and HEC-HMS as well as LADOTD HYDRWIN programs for roadside drainage. LADOTD design criteria are being followed and design drawings are also being developed as traditional LADOTD plans using Bentley Microstation/Inroads due to anticipated federal funding.

Crescent has completed the topographic surveys. Preliminary plans and hydraulic analysis are currently underway along with environmental and geotechnical services.

Team Members Highlighted in this Proposal: Dennis M. Hymel Jr., PE, Abbey Falcon, P.E., Kelly Jones

17. Firm Experience

Firm name	**Crescent Engineering & Mapping, LLC**	**Past Performance Evaluation Discipline(s)***	Bridge
Easley Rd. Bridge over Sweetwater Creek		**Firm responsibility (prime or sub?)**	Prime
Project number		**Owner's name**	Tangipahoa Parish Government
Project location	Loranger, LA	**Owner's Project Manager**	Misty Evans, P.E.
Owner's address, phone, email	206 E. Mulberry St., Amite, LA 70422 985-244-6880 mevans@tangipahoa.org		
Services commenced by this firm (mm/yy)	03/22	**Total consultant contract cost ($1,000's)**	$187
Services completed by this firm (mm/yy)	Ongoing	**Cost of consultant services provided by this firm ($1,000's)**	$129

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

The Old Genessee Rd./Creeks Bridge Replacement project involves the replacement two (2) structurally deficient timber trestle bridges in Tangipahoa Parish near Tickfaw, LA. The project includes topographic surveys, property surveys, bridge design, roadway design, geotechnical, environmental and contract management. Project scoping and design is per LADOTD requirements including plan production.

Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for the topographic surveys, hydraulic analyses and modeling, roadway design, bridge design, utility surveys and roadway/bridge plan production. The project's topographic survey (140' x 3200' DTM) was conducted to LADOTD standards and processed in Bentley Microstation/Inroads. Hydraulic analysis was performed using GEOHEC-RAS and HEC-HMS as well as LADOTD HYDRWIN programs for roadside drainage. LADOTD design criteria are being followed and design drawings are also being developed as traditional LADOTD plans using Bentley Microstation/Inroads due to anticipated federal funding.

Crescent has completed the topographic surveys. Preliminary plans and hydraulic analysis are currently underway along with environmental and geotechnical services.

Team Members Highlighted in this Proposal: Dennis M. Hymel Jr., PE, Abbey Falcon, P.E., Kelly Jones

17. Firm Experience

Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Category(ies)*	Traffic	
Project name	I-10 ITS Scott to Lake Charles		Firm responsibility (prime or sub?)	sub	
Project number	H.013256.5	Owner's name	DOTD		
Project location	I-10 (District 07)		Owner's Project Manager	Roy Esteven, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-2527, Roy.Esteven@LA.gov				
Services commenced by this firm		01/21	Total consultant contract cost ($1,000's)		unknown
Services completed by this firm		03/21	Cost of consultant services provided by this firm ($1,000's)		$20.162

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

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

Personnel Utilized on this project: Laurence Lambert, Prasanth Malisetty, Reece Rodrigue, & Kristen Farrington (100% performed in Louisiana)

17. Firm Experience

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

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

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- **Performed the traffic study of the Traffic Management Plan (TMP)**
- Response to request for information (RFI's)
- As-built plans for the traffic signals (remaining task)

Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, Prasanth, Malisetty, Bridget Robicheaux, and Reece Rodrigue (100% performed in Louisiana)

17. Firm Experience

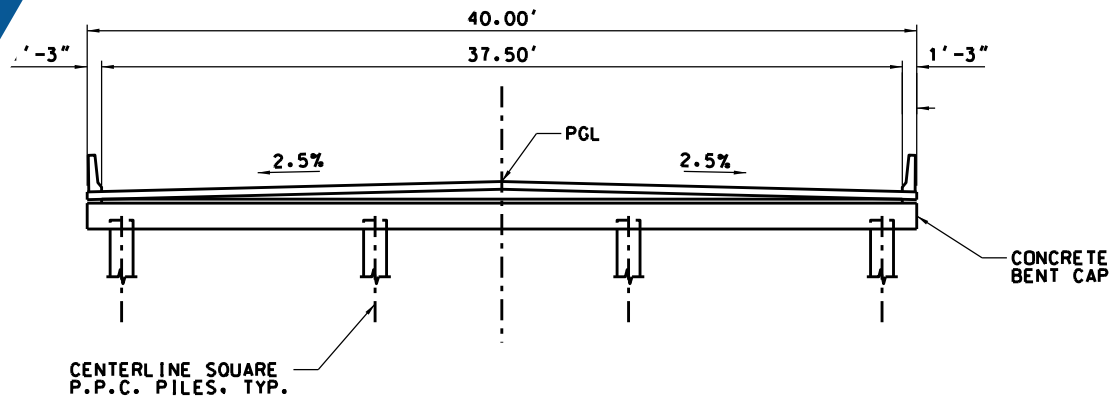
Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Category(ies)*	Traffic	
Project name	DOTD I:20 LA 544 Overpass Replacement		Firm responsibility (prime or sub?)	sub	
Project number	H.010616	Owner's name	DOTD		
Project location	Ruston, LA		Owner's Project Manager	Jacob Fusilier	
Owner's address, phone, email	PO Box 94245 Baton Rouge, LA 70804-9245, (225) 379-1185, jacob.fusilier@la.gov				
Services commenced by this firm	02/20	Total consultant contract cost ($1,000's)	unknown		
Services completed by this firm	11/21	Cost of consultant services provided by this firm ($1,000's)	$ 25.744		

Vectura performed a Level 2 **Traffic Management Plan** (TMP) for the replacement of the LA 544 Overpass at the I-20 interchange. The plan included the following activities:

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

Personnel Utilized on this project: Brin Ferlito, Prasanth Malisetty, Reece Rodrigue, and Laurence Lambert (100% performed in Louisiana)

The Neel-Schaffer Design Team understands that maintenance of traffic will be significant for this project because a detour route would be too long. Two lanes of traffic must be maintained during construction, but the proposed bridge is not currently wide enough to allow for this condition (see upper image). Suggested solutions are split-phased construction with a bridge built wide enough to allow for two-way traffic on half of the bridge. Another solution is an offset alignment with proper construction clearances with the existing structure. The Neel-Schaffer team will work with DOTD to determine a solution which all parties find acceptable and which will maintain use of the corridor for motorist during construction.



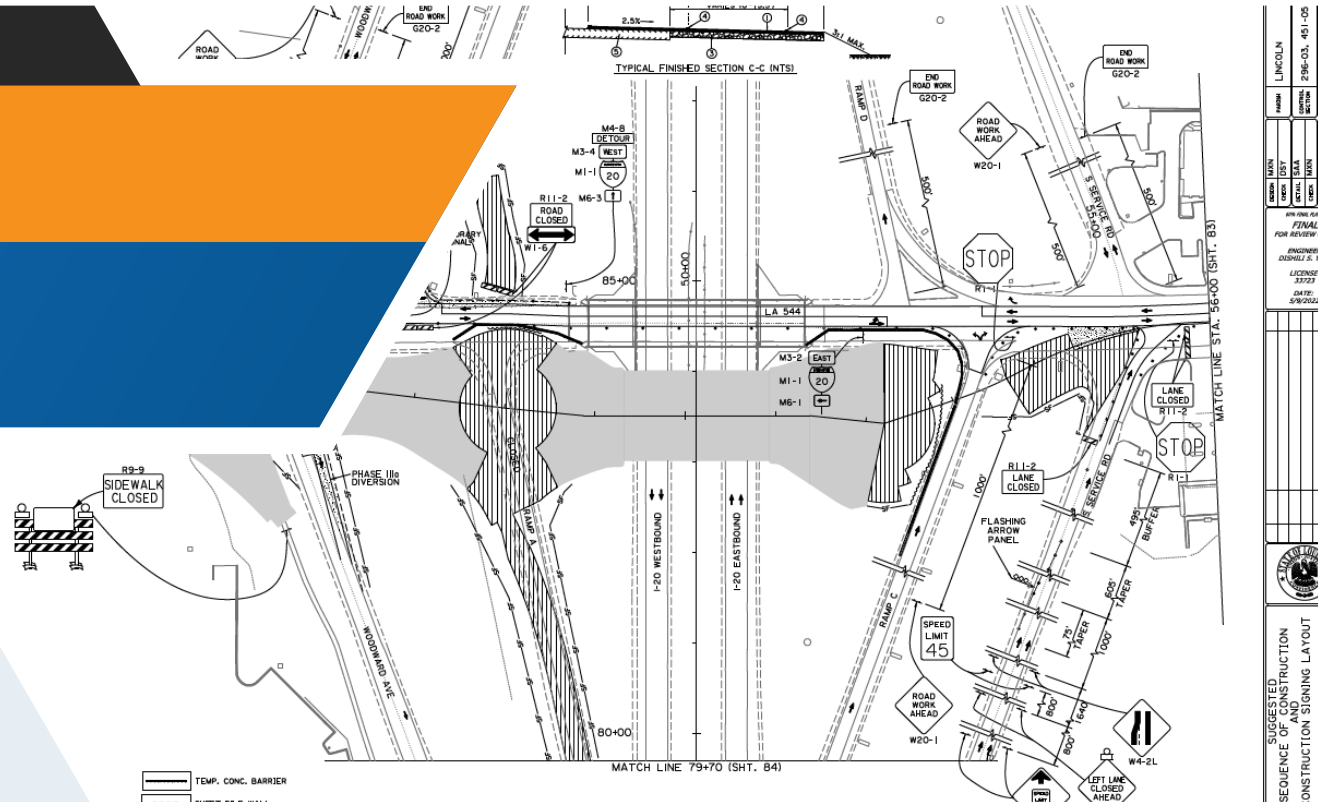
TYPICAL BRIDGE SECTION (N.T.S.)

APPLIES: STA. 465+20.00 to 465+80.00

Section 18

CONTRACT NO. 4400024641
IDIQ Contract for LA 447 Corridor

Neel-Schaffer has experience with producing sequencing plans which maintain two lanes of traffic along a bridge while providing the required clearnces along LA 544 (see lower image).



Company Highlight: **Neel-Schaffer, Inc. (NSI)** was founded in 1983 and is a large, multi-disciplined consulting engineering firm of over 500 professional, technical, and support staff. We have been extensively involved in preliminary and final roadway plan development, TMP, hydraulic analysis and design, bridge design, and construction cost estimating, in Louisiana for over 35 years for the LADOTD and for every major municipality in the State of Louisiana. We are uniquely capable of successfully preforming the tasks included in this contract because of our project specific experience with LA 447 and our past performance on similar DOTD projects.

We have worked on 165 roundabout geometry intersections in Louisiana. This project will construct two multilane roundabouts along LA 447 (one at O'Donovan Blvd. and one at Buddy Ellis Road). The successful completion of this project will require a team that has extensive experience in the design of multilane roundabouts because geometry greatly impacts their safety and operational performance.

The limited existing right of way requires a team that is knowledgeable of the project area and constraints/challenges. **Project Specific:** ***NSI developed the roadway geometry for LA 447*** which was utilized as the foundation for this project and we have included ***staff who have worked on the roadway design included in the*** **EA** which will be carried forward in the preliminary design phase. We are intimately familiar with the constraints associated with the project location. **We have already identified several issues** which should be resolved during the design phase. These are identified in this section as **Project Specific Challenges** and **NSI Proposed Solutions.** We are prepared to **offer solutions** which will streamline the Preliminary Plan Phase and will utilize our staff experience and understanding of the project to expedite the project completion.

PROJECT BACKGROUND

LA 447 is an urban arterial two-lane roadway with ditches. This project will widen LA 447 to a three-lane section between Joe May Road and Buddy Ellis and will widen LA 447 to a four-lane median divided section between Buddy Ellis and the I-12 Eastbound ramps. Multilane roundabouts will be constructed along LA 447 at Buddy Ellis Rd. and O'Donovan Blvd. A corridor study was completed by NSI which set the foundation for the roadway geometry and provided the traffic analysis. This study was completed by many of the staff included in this proposal. The EA which will provide the foundation for the preliminary design had geometry which was completed in part by NSI staff while employed at APTIM.

APPROACH AND METHODOLOGY

We have assembled a team with the technical expertise and project specific experience to successfully transition the project from Stage 1 into and through Stage 3. The sections which follow outline our approach and methodology for the completion of these services and in this section, we provide **project specifics** of how our knowledge of this project and the project vicinity could assist with the seamless execution of this project.

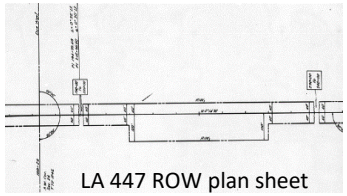
Project Kickoff Meeting: NSI will attend the kick-off meeting where the project background, communication protocols, project schedule and submittal stages will be discussed. The bridge and road design criteria will be presented to include design assumptions, factors, loads, limit states as well as governing elements for anticipated bridge barrier rails, bridge hydraulics, guard rail, bearings, joints, approach slabs and deck drainage.

Site Visit & Study of Existing Data: NSI will conduct an initial site visit to determine the existing site conditions, obtain utility data, and determine potential constraints which are not apparent with aerial imagery or street view.

Project Specific: There are existing sewer discharge pipes which connect to the open ditches along LA 447 and this site visit could determine the location and number of tail lines. This is the first step to determining if they are permitted and how they will be addressed under the proposed conditions. NSI has experienced this issue while designing Juban Rd. widening and roundabouts for DOTD. NSI worked with DOTD, DHH and Livingston Parish to determine the best plan of action for the tail lines along this corridor, which had similar existing conditions and a similar proposed design.

Project Specific: There are existing collapsed and partially buried driveway culverts along the project which appear to be impacting flow. Additionally, NSI is aware of the need to improve roadside drainage along this section of corridor due to recent flash flooding during heavy rain events. NSI will assess locations where the existing roadside ditch is to remain to ensure that proper drainage will occur throughout the project after completion. This assessment will begin with observation during the site visit and will continue throughout the preliminary design phase.

NSI will review the existing geometry, traffic data, utility data and any other available data to transition the design to the preliminary design phase. NSI will obtain LiDAR data, create an In-Roads proposed model to confirm the limits of construction fall within the apparent or proposed ROW limits. We will review the as-built plans, existing studies, prior design plans, shop drawings, and structure maintenance records. This information will allow the project to advance while the topographic survey and right-of-way data is being obtained.


LA 447 ROW plan sheet

Project Specific: NSI already has as-built plans and ROW maps for this project. We have confirmed several details such as the apparent ROW (80' minimum) and will utilize this type of data during the initial stages of the project.

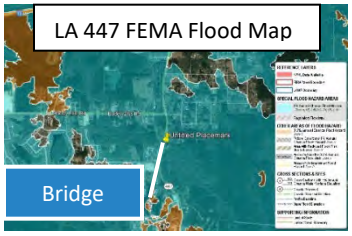
Preliminary Plans: Our *roadway engineering design* will be completed in conformance with the latest requirements of the *LADOTD Roadway Design Procedures and Details*, the LADOTD Engineering Directives and Standards (EDSMs), the *American Association of State Highway and Transportation Officials (AASHTO) Policy on Geometric Design of Highways and Streets*, and *AASHTO Roadside Design Guidelines*. We will provide plans

created utilizing CADConform and in compliance with the DOTD CAD standards. Our roadway design will be completed with the use of Power InRoads (SS2) and our construction cost estimates will utilize the DOTD standard bid items and the DOTD's Bid history estimate tool, with consideration for the project location and magnitude of items.

NSI recognizes that DOTD has plans to move towards OpenRoads. NSI continues to work in InRoads SS2 as this is the version that DOTD is currently using and it allows DOTD easy utilization of NSI's electronic files. However, we are prepared to make that transition to OpenRoads simultaneously with DOTD.

Our bridge design will follow the AASHTO LRFD Bridge Design Specifications, LADOTD Bridge Design and Evaluation Manual, LADOTD Bridge Design Technical Memoranda and other pertinent design guidance. There is superelevation near both bridge ends. The NSI design team will ensure that both roadway and bridge design teams communicate early and often in the design process to resolve any discrepancies and competing demands of roadway geometry and superelevation to bridge geometrics and constraints, especially in superelevation transitions or runouts. The result of these discussions, the design criteria and early geometric layout will be the Type, Size and Location (TS&L) submittal of the bridge structure, characterized in report format including any structure alternatives which are feasible and a recommended TS&L. The bridge design team will coordinate with the geotechnical engineers early to have borings taken and logs completed, submitted, and approved prior to the completion of preliminary bridge plans.

Our *drainage design* will be completed in conformance with the DOTD Hydraulics Manual. We will utilize LADOTD HydroWIN software for open channel flow (Hydro1140), inlet spacing (Hydro6000), analysis of culverts (Hydro1120) and storm sewer system design (Hydro6020). We will utilize HEC-RAS to model the water surface profiles and calculate the scour depth for the bridge which will be replaced. **Project Specific:** This project will replace a 60' long bridge which crosses Willis Bayou. We have accessed the FEMA flood maps (see image) for this project and found that the bridge is in the 100yr floodplain but is not located within located within the floodway, which removes the requirements to obtain a no-rise certification.

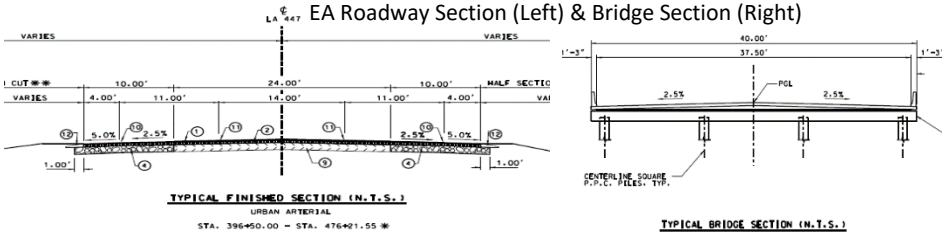


DOTD will obtain the environmental clearances and obtain any required permits. NSI will provide all required supporting documents (including but not limited to) permit drawings, such as 404 permits, which typically are letter size and should be produced separately from design plans due to the difference in scale.

30% Preliminary Plans: The proposed LA 447 improvements must fit within the existing right-of-way as much as possible to prevent impacts to the developed portions of the corridor. This will require a balance between the preferred design guidelines and construction feasibility. Prior to the completion of the 30% preliminary plans NSI will have a project workshop meeting with DOTD to discuss design challenges and NSI's proposed solutions. We will provide DOTD the completed design criteria reports during the 30% preliminary design phase to obtain support/approval for any design related decisions early on preventing rework and streamlining project completion. We will also complete any design waivers and design exceptions at this time for similar reasons.

Project Specific: The EA proposed typical section provides for 11ft travel lanes and 4ft shoulders to prevent impacts. This requires a design waiver for travel lane width (The DOTD guidelines preferred lane width is 12ft for Urban Arterial roadways). NSI has reviewed traffic data from the NSI study, CRPC volumes for 2015 and forecast 2042 volumes in the MPO area to determine the ADT along LA 447. LA 447 has an ADT which is greater than 2000 vpd. Therefore, a design exception is required for shoulder width (the acceptable width is 8 ft for the roadway classification and ADT). NSI suggests that the design waiver and exception be submitted for approval prior to the standard project schedules. NSI suggest it be approved prior to moving to 60% preliminary to prevent rework or impacts to the schedule as the project advances.

EA Roadway Section (Left) & Bridge Section (Right)



Project Specific Challenge: The EA proposes a bridge width of 37.5 ft which is less than the three-lane approach roadway shown in the EA. If this bridge width is advanced through design, it would require a transition in the roadway width to match the narrower bridge, a design exception for bridge width and that temporary bridge or culvert crossing be constructed for maintenance of traffic.

NSI Proposed Solution: NSI suggests that DOTD consider the construction of a wider bridge than the proposed. Unless diversions are utilized, the EA proposed bridge width of 37.5ft would not allow for the roadway construction to be completed while maintaining traffic due to the proximity of the proposed and existing alignments. If accepted, the suggested over-build by NSI would allow for half of the new bridge to maintain traffic in both directions, bring the bridge up to the design guideline requirements and no longer require roadway width transitions. Should this split-phase construction be utilized the design team will ensure that each phase of the construction is designed to meet design criteria and pile load limits both independently and as a complete structure.

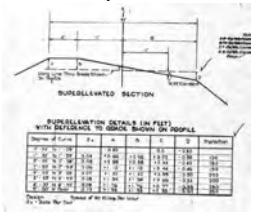
The 30% preliminary submittal will include the title sheet, typical sections and roadway plan and profile sheets with existing topography shown. *Typical Section:* The typical section sheets will consist of the typical grading and finished sections. They will depict all major geometric features and dimensions such as, but not limited to the following: lane width, shoulder width, curb, pavement cross slopes, clear zone, backslope,

foreslope, sidewalk/path, pavement markings, ROW, CL, PGL. *Plan and Profile sheets:* The plan and profile sheets will include annotation of the vertical and horizontal geometry including, but not limited to the following: existing groundline, proposed horizontal and vertical curve data and longitudinal grades. During this stage and after the TS&L comments have been addressed, the General Plan and Elevation (GP&E) and bridge typical sections begin to be developed as well as the bridge index, general notes and Summary of Estimated Quantities will be under development.

Project Specific: There are locations along LA 447 which appear to have base failures. Since the EA's typical section incorporates the existing LA 447 roadway, the proper patching of the existing roadway will be critical. This will ensure that the new infrastructure will both surpass its design life and exceed the expectations of the traveling public. NSI has staff experienced in roadway assessment and repairs. This will allow NSI to properly identify the sections of roadway needing base repairs and recommend the treatment necessary to preserve the integrity of the existing roadway after it's widened and during service.

60% Preliminary Plans: Our 60% preliminary plan set will include all the sheets previously submitted during 30% preliminary plans but at a higher level of detail. In addition, the existing drainage map, proposed drainage map, drainage plan and profiles, geometric details, cross sections, preliminary design report, construction notes and details, superelevation diagrams, foundation layouts, construction phasing and traffic control details, and the drainage report will be submitted at the 60% preliminary plan milestone. This phase typically begins the utility relocation recommendation phase, establishment of preliminary right-of-way takings. We will refine the geometry submitted during the 30% Preliminary Plan submittal to address comments and model the corridor utilizing Power InRoads (SS2), the pavement section and the topo dtm file provided by DOTD. We will create InRoads templates and check for the required construction and hydraulic clearances. The Draft TMP will be completed at this time and in accordance with DOTD EDSM No.VI.1.1.8 and FHWA's guidance manual Developing and Implementing Transportation Management Plans for Work Zones. The drainage design and report will be completed during this phase. Our drainage design will comply with the DOTD Hydraulics Manual and will utilize DOTD's HYDRWIN software. The roadway drainage system will be designed utilizing the rational method for a 10-year design storm. The bridge hydraulics will utilize HEC-RAS for water surface profiles and scour analysis.

Project Specific: The EA proposes geometry which would provide less than 5' between the proposed edge of pavement and ROW in some locations and the EA was completed with LiDAR data which is appropriate for this project stage but has accuracy limitations. NSI will utilize the topo survey and evaluate the limits of construction to confirm the existing and proposed ROW are acceptable as shown in the EA. Should the limits increase outside of the ROW, NSI will work with DOTD to provide solutions which reduce the project footprint, such as additional subsurface drainage or short retaining walls.



Project Specific Challenge: The EA provides for a roadway section with normal crown, which does not match the existing superelevation that is present for many of the curves in the project limits. If this section is held, it would present issues with maintenance of traffic during the slope correction. If revised to maintain the existing superelevation, the project will be evaluated for potential changes in the limits of construction along segments which are located on the high end of the section and issues with construction and hydraulic clearances along the low side of the typical section.

NSI Proposed Solution: NSI suggest that the existing superelevation be maintained where feasible to reduce impacts to motorist and cost associated with temporary pavement. NSI would provide an evaluation of both roadway cross slopes (normal crown and with superelevation) and provide the results to DOTD for decision making purposes and to ensure the most feasible solution advances. NSI recognizes that the reverse curves (PRC Station 429+18.96) does not provide any tangent length to allow for the superelevation transition. Due to this fact, these reverse curves may require that the horizontal geometry be tweaked to allow for a tangent segment or that slope correction be completed to provide normal crown

95% Preliminary Plans and Plan-In-Hand (PIH): The 95% Preliminary Plan submittal will include all of the sheets and documents previously submitted but in more detail. This submittal will also include the summary of estimated quantities sheets (pay items only). All bridge plan sheets continue to be developed at the 90% Preliminary Plan stage with the addition of the pile loads if a standard plan bridge is being utilized. If the bridge is non-standard, pile load development will begin in Final Plans. The comments from the 60% Preliminary Plans will be addressed, preliminary right-of-way taking lines will be completed. The Preliminary QA/QC checklist and Plan-In-Hand Checklist will be completed during this phase. Should a PIH meeting be requested, we will attend and summarize comments.

100% Preliminary Plans: This plan set will address any comments from the PIH. Preliminary cost estimate, permit sketches and final right-of-way is provided to Location and Survey during this phase. We will provide the Final Design Report with this submittal. Should revisions to one or more design criteria be required after this phase, we will submit a Revised Design Report with a brief description of the revision.

Final Plans: Once an environmental decision is received and a notice-to-proceed with final plans has been issued we will begin preparing the 60% Final Plans.

60% Final Plans: We will submit updates of the deliverables included in the 100% preliminary plan. Property surveys will be required, and Right-of-way maps will be prepared so that the joint plan review meeting can be held. If applicable, superelevation diagrams will be reviewed again against bridge geometry, bent and deck elevations as well as a review of the Inroads model by the bridge design team to ensure the bridge bent and deck elevations are consistent with the roadway geometry, superelevation and transitions. While it is not anticipated that non-standard specifications will be required for this project, we are able to provide these specifications as part of this submittal. Final Bridge Plans will include the development of plans and details for the

substructure and superstructure including bent details, span details, approach slabs, pile loads & tables, joint and bearing details, bridge barrier rails and guardrail.

95% Final Plans: We will revise the preliminary cost estimate, complete the constructability review form and the Final Plans QA/QC Form during this phase. DOTD will review the Advance Check Prints (ACP).

98% Final Plans: We will address the ACP comments and complete the final cost estimate, provide the SWPPP form, NOI form, and provide the DOTD Contract Time Worksheet. During this phase, the Plan Quality Unit will review and once approved, we will produce the 100% Final Plan Set for the Chief Engineer's Signature. We will also provide the Final Stamped and Signed copy of the Design Report.

100% Final Plans: We will submit 100% signed Final Plans (Full Size Plan Set with Mylar Title Sheet) along with an electronic submittal. During this phase, the plans are transmitted to General Files.

Construction Support: We understand that the construction services will be provided by others, but our engineering support during construction will provide critical services to help ensure the successful completion of the construction phase. We will review shop drawings, respond to RFI's within 48 hrs and assist with information meetings with a 24 hour notice. We will provide design corrections to minor design changes within 7 calendar days.

Evaluation Criteria

✓ **Firm Experience on Similar Projects:** We have worked on countless projects which were completed in conformance with DOTD requirements and by the staff included in this proposal.

✓ **Staff Experience on Similar Projects:** Our staff are uniquely capable of providing these services and represent an average of **27 years** of experience in providing services which conform to the requirements of DOTD.

- **Mr. Nick Ferlito, PE, PTOE**, Principle, has 29 years of successfully managing engineering services for DOTD. He was the project manager for the LA 447 Corridor Study and has worked on close to 100 roundabout intersections.
- **Ms. Dishili Young, PE, PTOE**, project manager, has 20 years of experience in design and engineering design management of projects for DOTD. She was the project manager for the LA 447 EA and assisted in the roadway design. She has worked on over 60 roundabout intersections.
- **Ms. Mai Nguyen, PE** has 14 years of road design experience (7 years working for DOTD Road Design). She assisted with the geometry for the LA 447 corridor study and has worked on over 45 roundabouts.
- **Ms. Connie Standige**, PE has Ms. Standige has 37 years of diversified engineering experience, including 30 years working for DOTD.
- **Mr. Frank Standige, PE** has over 35 years of highway and bridge construction experience, most of those years as a DOTD construction employee.

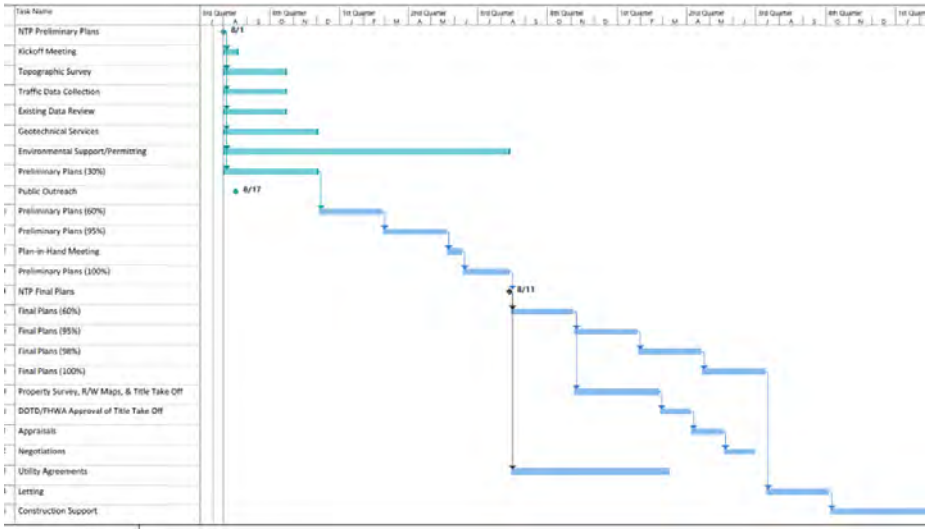
✓ **Firm Size as Related to the Project Magnitude:** We employ ***over 40 professionals within the State***, including our ***5 Louisiana offices*** (Baton Rouge, Lafayette, Mandeville, New Orleans and Shreveport). These employees represent staff who we will dedicate to the successful completion of this project. They have maintained meaningful relationships with DOTD over the years. They will complete the detailed tasks associated with the design by utilizing their understanding of the project specific needs and the technical requirements of the DOTD. In addition, we have over 500 professionals company-wide who can support this core local team as needed.

✓ **Past Performance on Similar DOTD Projects:** NSI has been providing engineering services for DOTD and for every major municipality in the State of Louisiana for over 35 years. Our most recent DOTD road design rating for a project was a **4.6 out of 5.0**, which reflects our understanding of DOTD's policies and procedures. The graphic that follows shows a couple of statements from our recent performance review for preliminary plans for a similar project.

DOTD Project Manager performance review Quotes	
NSI "showed good knowledge of DOTD policies and manuals. The consultant responded to all comments received. Their plans were well thought through, clear, and accurate. The consultant displayed good judgment when resolving design issues throughout the preliminary plan development and acted promptly to resolve issues as that arose."	NSI "effectively and proactively controlled the Contract. When additional scope was added to the contract, the consultant coordinated effectively with the Department's project manager to identify critical path tasks. The consultant completed these tasks in a timeframe which allowed the scheduled letting date to remain unaffected even with the increased scope."

✓ **Current Work Load:** Our staff members are available to immediately begin the completion of services included in this RFP. We have over 40 design staff members in five Louisiana offices who are able to begin working on this project as soon as an NTP is provided.

LA 447 Anticipated Project Schedule



Many curves along LA 447 have superelevation. If the roadway is constructed as shown in the EA with normal crown. The existing superelvation would need to be removed which would cause challenges with keeping two travel lanes open during construction.

Neel-Scaffer will review the impacts the proposed geometry has on MOT and provide solutions which address these concerns.

Section **19-23**

CONTRACT NO. 4400024641
IDIQ Contract for LA 447 Corridor

19. Workload:

Firm(s)	Past Performance Evaluation Discipline(s) *	State Project Number	Project Name	Remaining Unpaid Balance
Neel-Schaffer	Planning	SPN 736991548	Travel Demand Model Support Services Statewide (PRIME)	$80,081
Neel-Schaffer	Environmental	H.000284.2	US 90 Pearl River Bridges, Route US 90, Saint Tammany Parish (PRIME)	$77,149
Neel-Schaffer	Traffic & Road	H.011235	I-49 South at Verot School Road, Lafayette Parish, (SUB)	$16,114
Neel-Schaffer	Traffic/Safety	H.014044.1	US 80: Intersection @ Bellevue Road, Route US 80	$10,288
Neel-Schaffer	ITS	H.004780.5 EWL No. 6	Kansas Lane Connector	$28,218
Neel-Schaffer	Traffic	SPN 4400010428 SA #2	Kansas Lane - Garrett Road Connector and I-20 Improvements (SUB)	$2,655
Neel-Schaffer	Road	H.100108.1	Safety Projects: Independence SRTS - Phase II	$3,294
Neel-Schaffer	Road	H.013713.1	Safety Projects: LA 60 Bogalusa H.S. Ped Improvements	$3,717
Neel-Schaffer	Road	H.013014.5	Local Roads Signing (Vermilion)	$5,565
Neel-Schaffer	Road	H.009290.5	LSU Lab School SRTS Project	$61,842
Neel-Schaffer	Planning	H.972374.1	Local Public Agency Documented Planning Process, Statewide	$91,931
Neel-Schaffer	Road	H.010616	I-20: LA 544 Overpass Replacement	$340,510
Neel-Schaffer	ITS	H.013256.5	ITS: I-10 ITS Scott to Lake Charles	$16,710
Neel-Schaffer	ITS	H.014513.1	ITS: Lafayette ITS Architecture Update	$31,941
Neel-Schaffer	ITS	H.013256.6	ITS: I-10 ITS Scott to Lake Charles Technical Support Services During Construction	$23,867
Neel-Schaffer	ITS	H.012384.5	ITS Fiber Management System Data Collection	$105,157
Neel-Schaffer	ITS	H.011504.5	Alexandria ITS Phase 2	$153,197
Neel-Schaffer	Traffic	H.013284	MRB South GBR: LA 1 to LA 30 Connector, Ascension, EBR, Iberville & WBR	$53,368
Neel-Schaffer	Traffic	H.013766.5	Local Road Signs & Striping (Caddo) (SUB)	$1,109
Neel-Schaffer	Safety	H.014684.1	D61 Intersections: Safety Study District 61	$411
Neel-Schaffer	Traffic/Safety	H.014579.5	FYA Signal Improvements (LCG)	$730,822
Neel-Schaffer	Safety	H.014959.1	US 167: I-10 to Willow St. RSA	$54,977

Firm(s)	Past Performance Evaluation Discipline(s) *	State Project Number	Project Name	Remaining Unpaid Balance
Neel-Schaffer	Planning/ Traffic/ Safety	H.014745.1	LA 383 Corridor Study	$236,487
Crescent Engineering & Mapping, LLC				N/A
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	$4,959
Vectura Consulting Services, LLC	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	$52,436
Vectura Consulting Services, LLC	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	$209,504
Vectura Consulting Services, LLC	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	$58,309
Vectura Consulting Services, LLC	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$21,999
Vectura Consulting Services, LLC	Traffic	H.012030.5	KCS RR Overpasses HBI	$28,026

20. Certifications/Licenses:

N/A

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

See attached

CRESCENT

ENGINEERING & MAPPING LLC

in coordination with

NEEL-SCHAFFER, INC.

LADOTD CONTRACT No. 44-24641

S.P. No. H.005734

LA 447 Corridor Study

BRIDGE DESIGN QC/QA PLAN

"Committed to Excellence, Focused on Delivery"

July, 2022

Table of Contents

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. 44-24641
S.P. No. H.005734
LA 447 Corridor Study

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		Construction Support & Shop Drawings	
Designer:	Dennis M. Hymel, Jr., P.E.	Drawing Review:	Dennis M. Hymel, PE.
Design Checker:	Abbey F. Falcon, P.E.	Review Checker:	Abbey F. Falcon, P.E.
Detailer:	Kelly G. Jones	QA Review:	Frank Standige, PE
Detail Checker:	Abbey F. Falcon, P.E.		
QA Review:	David Hebert, P.E.		

Hydraulics Design & Scour Analysis		Bridge Geometric Design	
Designer:	Abbey F. Falcon, P.E.	Designer:	Dennis M. Hymel, PE.
Design Checker:	Dennis M. Hymel, Jr., P.E.	Design Checker:	Abbey F. Falcon, P.E. Dishili Young, P.E.
Detailer:	Kelly G. Jones	Detailer:	Kelly G. Jones
Detail Checker:	Dishili Young, P.E.	Detail Checker:	Abbey F. Falcon, P.E. Mai Nguyen, P.E.
QA Review:	James P. Ledet, P.E.	QA Review:	James P. Ledet, P.E.

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: End Bent 1 Design, Intermediate Pile Bent Design, Framed Bent 5 Design, etc. A set of design calculations for a component should generally be less than 20 pages. 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 (acting 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 η_D, redundancy factor η_R, and operational importance factor η_I 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 & L, 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			
Foundations/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

Project Name: XXX	CRESCENT	Date: XXXXX
Project Number: H.0XXXX	Engineer: Dennis Hymel, Jr., P.E.	
Submittal: 60% Preliminary	Reviewer: XXX	Page: 1 of 1

RESPONSE CODE
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

- 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**
Crescent Engineering & Mapping, LLC	P.O. Box 370 Vacherie, LA 70090	Dennis M. Hymel, Jr., P.E. Dennis.hymel@crescentengla.com	225-329-1742
Vectura Consulting Services, LLC	8000 Innovation Park Drive, Baton Rouge, LA 70820	Brin Ferlito, bferlito@vecturacs.com	225-223-6685

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank.