LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

STATEMENT OF QUALIFICATIONS

Engineering and Related Services

August 17, 2023

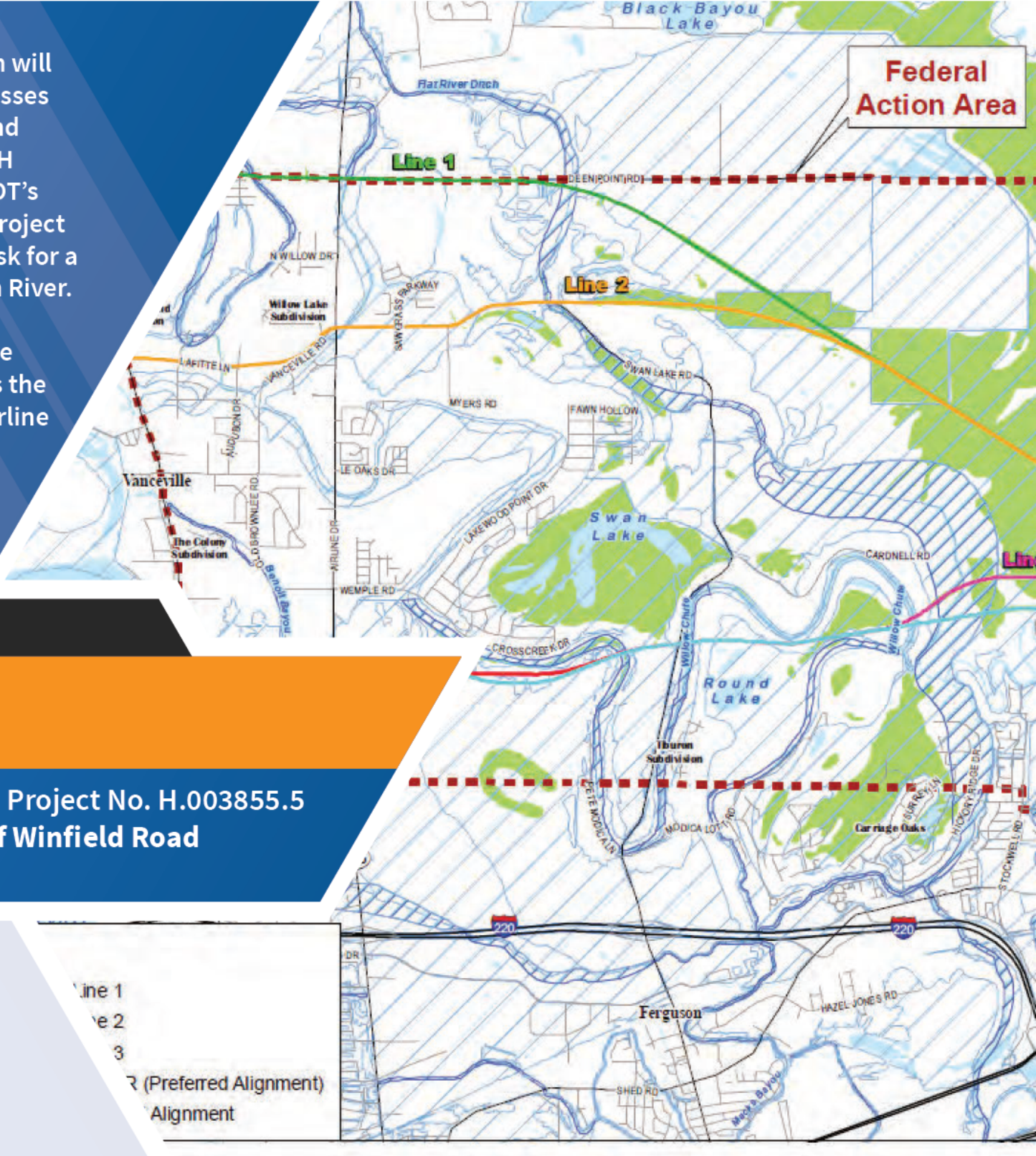
Contract No. 4400027600 State Project No. H.003855.5
Entity Contract for Cong Relief Winfield Road
Bossier Parish

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

NEEL-SCHAFFER
Solutions you can build upon

A "No-Rise/No-Impact" Certification will be required because this project crosses the 100-year floodplain (Zone AE) and regulatory floodway. Our bridge H&H lead has provided this service for DOT's throughout the southeast and our project manager recently completed this task for a new roadway crossing the Vermilion River.

The graphic to the right shows where the Selected Alignment 3R will cross the floodplain and floodway. The centerline for the alignment is shown in blue.



Sections 1-11

Contract No. 4400027600 State Project No. H.003855.5

Entity Contract for Cong Relief Winfield Road

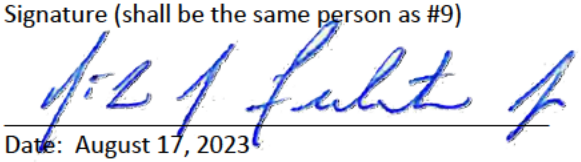
Bossier Parish

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

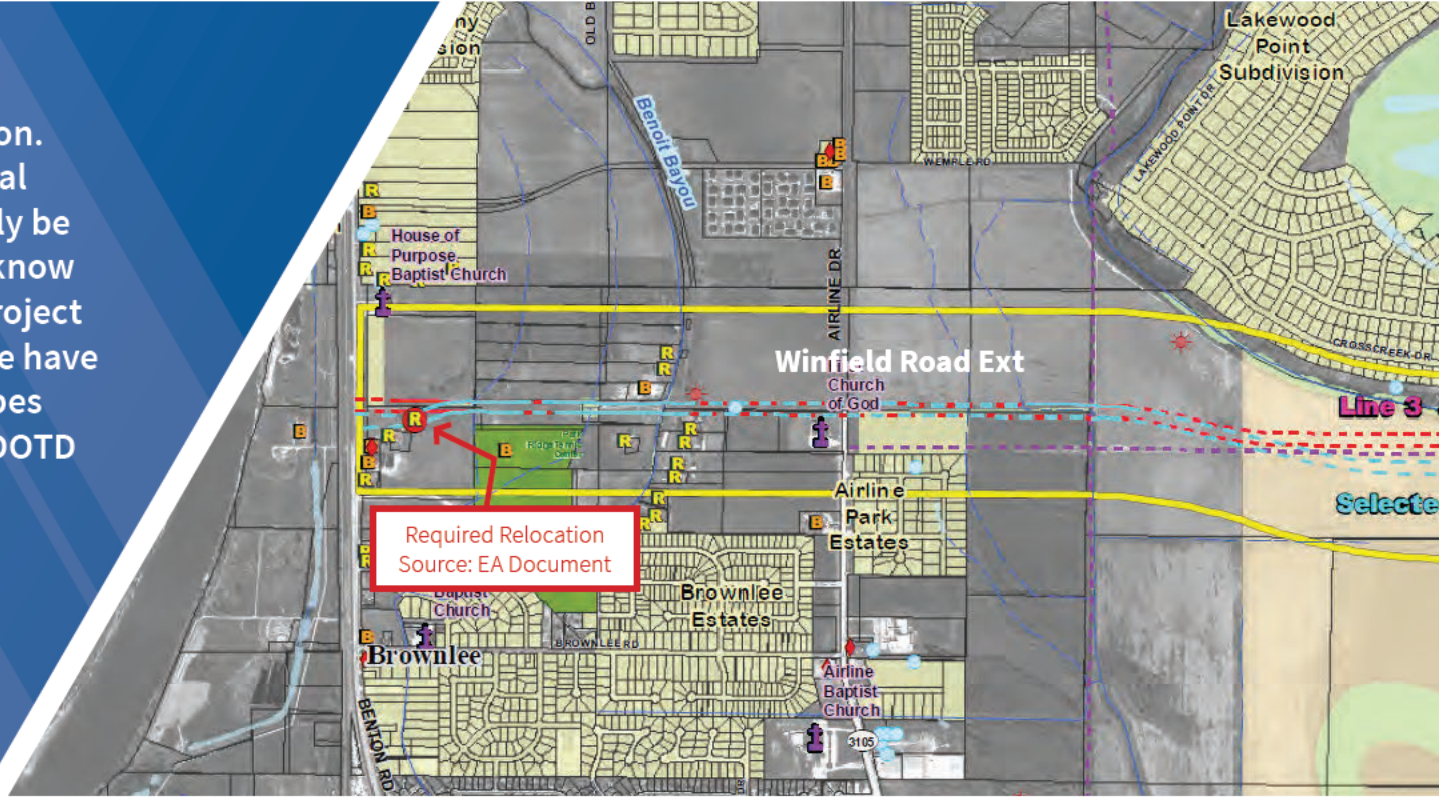
(Revised January 1, 2023)

1. Contract Name as shown in the advertisement	**Entity Contract for Cong Relief Winfield Road** *Bossier Parish*
2. Contract Number(s) as shown in the advertisement	CONTRACT NO. 4400027600
3. State Project Number(s), if shown in the advertisement	STATE PROJECT NO. H.003855.5
4. Prime consultant name **(name must match as registered with the Louisiana Secretary of State where such registration is required by law)**	Neel-Schaffer, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.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** *Vice President / Engineering Manager* dishili.young@neel-schaffer.com 225.614.2816
9. Name, title, phone number, and email address of the official with signing authority for this proposal	**Nick Ferlito** *Senior Vice President / Engineering Manager* nick.ferlito@neel-schaffer.com 225-614-2813

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: August 17, 2023

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
	Dave Rambaran Geosciences, LLC	4%

The alignment 3R will require one relocation and right of way acquisition. The project SOW does not include real estate services because this will likely be completed by others. However we know that Bossier Parish would like this project completed as quickly as possible. We have included a real estate firm in the hopes of streamlining the services should DOTD desire it to be included.

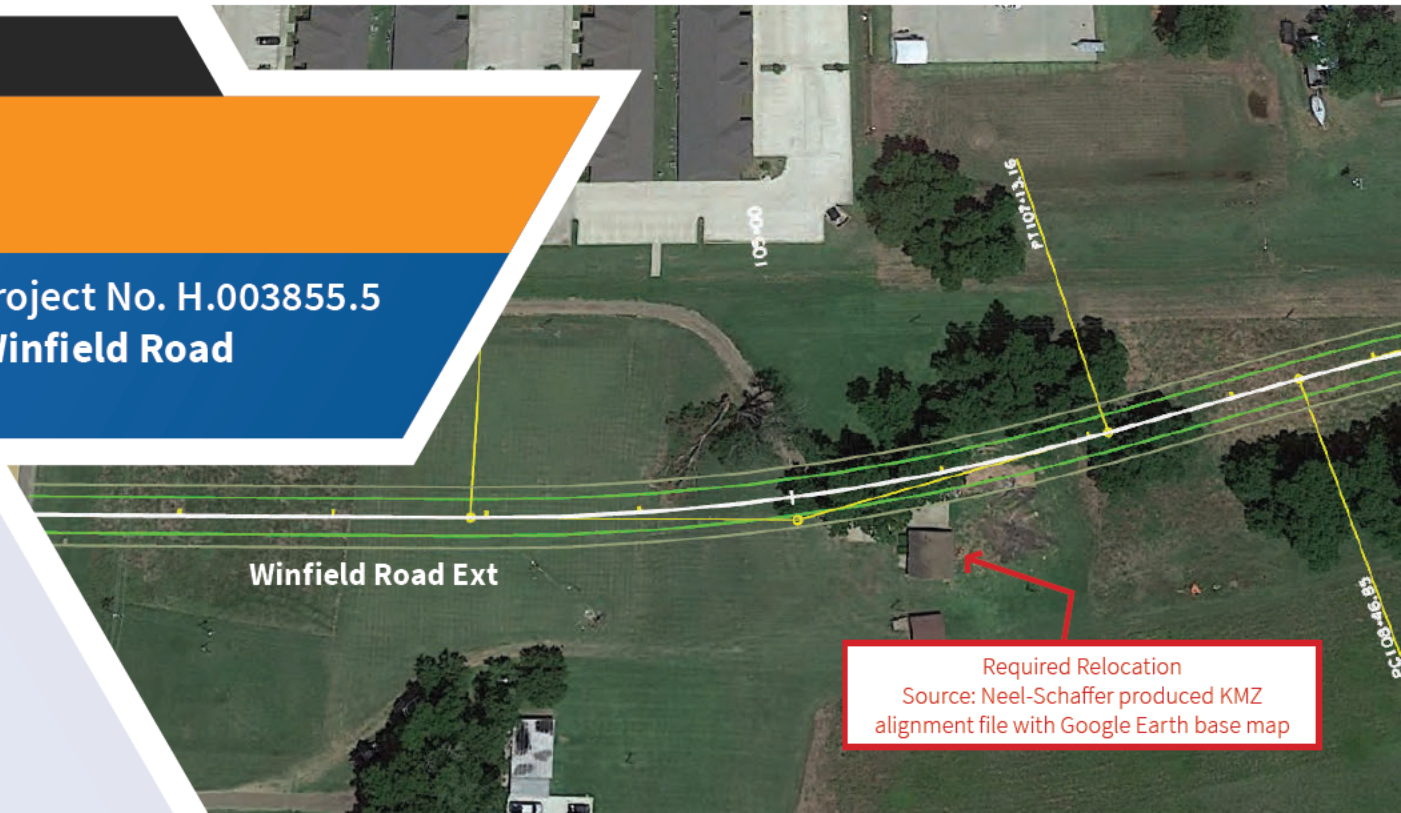


Sections 12-15

Contract No. 4400027600 State Project No. H.003855.5

Entity Contract for Cong Relief Winfield Road

Bossier Parish



12. Past Performance Evaluation Discipline Table:

Past Performance Evaluation Discipline(s)	Percent of Overall Contract	Neel-Schaffer	Terracon	HNTB	Forte & Tablada	Dave Rambaran Geosciences	Volkert	JW Porter	Each Discipline Must Total to 100%
Road	71%	69%			28%		3%		100%
Bridge	10%			100%					100%
Surveying	5%				100%				100%
Geotech	13%		69%			31%			100%
Right-of-Way	1%							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%	49%	9%	10%	25%	4%	2%	1%	

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	15	25
Neel-Schaffer, Inc.	Principal	1	2
Neel-Schaffer, Inc.	Supervisor - Eng.	2	2
Neel-Schaffer, Inc.	Senior Technician	2	1
Neel-Schaffer, Inc.	Environmental Manager	1	2
Neel-Schaffer, Inc.	Engineer Intern	1	1
Terracon Consultants, Inc.	Principal	2	2
Terracon Consultants, Inc.	Supervisor-ENG	1	4
Terracon Consultants, Inc.	Engineer	3	4
Terracon Consultants, Inc.	Engineer Intern	1	2
Terracon Consultants, Inc.	Supervisor-Other (Drilling & Laboratory Manager)	2	3
Terracon Consultants, Inc.	Technician (Lab and Field)	6	8
HNTB Corporation	Accountant	0	2
HNTB Corporation	CADD Technician	2	2
HNTB Corporation	Clerical	0	2
HNTB Corporation	Engineer	5	7
HNTB Corporation	Engineer Intern	2	2
HNTB Corporation	Engineer Other	0	6
HNTB Corporation	Principal	0	1
HNTB Corporation	Senior Technician	0	2
HNTB Corporation	Supervisor Engineer	4	5
HNTB Corporation	Supervisor Other	0	4
Forte and Tablada, Inc.	Administrative		3
Forte and Tablada, Inc.	CADD Technician	1	8
Forte and Tablada, Inc.	Clerical		4
Forte and Tablada, Inc.	Engineer	5	9
Forte and Tablada, Inc.	Inspector		3
Forte and Tablada, Inc.	Instrument Man		4
Forte and Tablada, Inc.	Party Chief	2	6
Forte and Tablada, Inc.	Engineer Intern		10
Forte and Tablada, Inc.	Principal	2	3
Forte and Tablada, Inc.	Rodman		11
Forte and Tablada, Inc.	Senior Technician	2	3
Forte and Tablada, Inc.	Supervisor Engineer	1	4
Forte and Tablada, Inc.	Supervisor Other		2

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (*if needed*)
Forte and Tablada, Inc.	Surveyor	4	5
Dave Rambaran Geosciences, LLC	Engineer	2	2
Dave Rambaran Geosciences, LLC	Geologist	1	1
Dave Rambaran Geosciences, LLC	Professional	1	1
Dave Rambaran Geosciences, LLC	Senior Technician	1	1
Dave Rambaran Geosciences, LLC	Driller	2	2
J.W. Porter & Associates, LLC	Abstractor	1	4
Volkert, Inc.	Principal	1	37
Volkert, Inc.	Surveyor	1	0
Volkert, Inc.	Engineer	2	84

14. Organizational Chart

LEGEND

- Neel-Schaffer
- Terracon
- HNTB
- Forte & Tablada
- Volkert
- DR Geosciences
- JW Porter

[1] Meets MPR No. 1
[2] Meets MPR No. 2
[3] Meets MPR No. 3
[4] Meets MPR No. 4
[5] Meets MPR No. 5
[6] Meets MPR No. 6
[7] Meets MPR No. 7

* *Personnel performing traffic engineering analysis and/or QC of traffic engineering analysis*

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Project Principal
Nick Ferlito, Jr., PE, PTOE* [1,2]

Client Liaison
Charles Adams, PE, PTOE *
Chris Patrick, PE

Project Management
Dishili Young, PE, PTOE* [3]
Project Manager

QA / QC
Randy Denmon, PE, PLS *Roadway*
Ashley Beckendorf, PE *Roadway*
Frank Standige, PE *Constructability*
Dusty Bastion, PE [5] *Bridge*

Geotechnical

Geotechnical Design
Lynne Roussel McMillen, PE [6]
Steve Greaber, PE [6]
Sarah Berman, PE [6]
Ryan Poindexter, PE [6]
Matt Minton
Brian Alexander

Geotechnical Support
Dave Rambaran, PE
Lloyd Hoover, PE
William Fegley
Varun Kumar Nagelli
Chaundra Course
Robert Simmons

Bridge

Bridge Design & Plans
Dusty Bastion, PE [5]
Joshua Porter, PE [4,5]
John Bernard, PE
Ben Goodner, PE
Marc Hoffmann, PE
Patrick Duffy, PE
Travis Honore, PE

Geotech / Wall Design
Brian Powell, PE [6]
Jared Sommers, PE
Brad Wilder, PE

Bridge H&H / Scour
Glenn Ledet, PE
Mike Phillips, PE, CFM
Steve Hazen, PE
Leah Selcer, PE
Kyle Grantham, PE, CFM

Road

Road Design
Dishili Young, PE, PTOE* [3]
Road Design Lead
Mai Nguyen, PE [3]
Chance Shuckrow, PE [3]
Scott Andrepont, PE
Joshua Schexnider, PE
Jacob Thiaville, EI

Geometrics
Gary LeBlanc, PE*

Drainage Design
Chance Shuckrow, PE [3]
Joshua Schexnider, PE

Constructability
Phil Graves, PE

CAD
Steve Perault

Environmental

NEPA
(As Required)
Barry Brupbacher

Traffic

Signal Design
Jonathan Duhe, PE, PTOE, RSP *
Charles Adams, PE, PTOE *

Traffic Data Collection
(As Required)
Lonny Territo

TMP
Ronald Kirk Gallien, PE, PTOE *

Surveying
Bradley Holleman, PE, PLS [7]
Ross A. Wilson, PLS
Rachel Waldroup, PLS
Philip Koch, PLS
Tommy Lake
John Tullier
Jeremy Cormier, LSI
Trenton Iglehart
Jordan Pearson, PE
Kresten Brown, PE
Adrian Boyd Holmes, PE
Drake Cowart, PE
Dexter L. Grogan, III, PE

Title
Linda Porter

15. Minimum Personnel Requirements:

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

MPR No. 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 No. 28001 – Civil, PTOE 930	LA	09/30/2023
2	Nick Ferlito, PE, PTOE	Neel-Schaffer, Inc.	PE No. 28001 – Civil, PTOE 930	LA	09/30/2023
3	Dishili Young, PE, PTOE	Neel-Schaffer, Inc.	PE No. 33723 – Civil, PTOE	LA	09/30/2023
3	Mai Nguyen, PE	Neel-Schaffer, Inc.	PE No. 38189 – Civil	LA	03/31/2024
3	Chance Shuckrow, PE	Neel-Schaffer, Inc.	PE No. 42746 – Civil	LA	03/31/2023
4	Josh Porter, PE	HNTB Corporation	PE No. 39513 – Civil	LA	09/30/2023
5	Josh Porter, PE	HNTB Corporation	PE No. 39513 – Civil	LA	09/30/2023
5	Dusty Bastion, PE	HNTB Corporation	PE No. 36719 – Civil	LA	03/31/2024
6	Brian Powell, PE	HNTB Corporation	PE No. 41551 – Civil	LA	09/30/2023
6	Lynne Roussel McMillen, PE	Terracon Consultants, Inc.	PE No. 35152 – Civil	LA	03/31/2024
6	Steve Greaber, PE	Terracon Consultants, Inc.	PE No. 26107 – Civil	LA	09/30/2023
6	Sarah Berman, PE	Terracon Consultants, Inc.	PE No. 43630 – Civil	LA	03/31/2024
6	Ryan Poindexter, PE	Terracon Consultants, Inc.	PE No. 46285 – Civil	LA	03/31/2024
7	Bradley Holleman, PE, PLS	Forte and Tablada, Inc.	PLS No. 5082 – Surveying	LA	09/30/2024
			PE No. 47165 - Civil	LA	03/31/2025

	NSI TEAM MEMBERS											
	Nick Ferlito, PE, PTOE	Dishili Young, PE, PTOE	Charles Adams, PE, PTOE	Frank Standige, PE	Dusty Bastion, PE	Mai Nguyen, PE	Chance Shuckrow, PE	Glenn Ledet, PE	Mike Phillips, PE, CFM	Leah Selcer, PE	Barry Brupbacher	Randy Denmon, PE, PLS
PROJECT SPECIFIC EXPERIENCE	✓	✓	✓			✓	✓					
WORKED ON SIMILAR ROAD DESIGN PROJECTS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WORKED ON SIMILAR BRIDGE DESIGN PROJECTS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WORKED ON SIMILAR ROADWAY DRAINAGE DESIGN PROJECTS	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓
WORKED ON SIMILAR BRIDGE H&H PROJECTS		✓			✓	✓	✓	✓	✓	✓	✓	✓
PERMITTING EXPERIENCE		✓				✓	✓			✓	✓	✓

Section 16

Contract No. 4400027600 State Project No. H.003855.5
Entity Contract for Cong Relief Winfield Road
Bossier Parish

16. Staff Experience

Firm employed by Neel-Schaffer, Inc.			
Name	**Nick Ferlito, Jr., PE, 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		BS / 1993 / Civil Engineering; MS / 1996 / Civil Engineering	
Active registration number / state / expiration date		PE No. 28001 / LA / 09-30-2023; PTOE No. 930	
Year registered	1998	Discipline	Civil
Contract role(s) / brief description of responsibilities		Project Principal **Meets MPRs 1 and 2**	

Has project specific 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).
10/22 – Present	**East-West Connector (Winfield Road Congestion Relief):** Performed a Traffic Analysis for a new east-west corridor through Bossier Parish. Mr. Ferlito is overseeing the Traffic Analysis portion of the project and all intersection analyses for the four major intersections. **Project Specific**
02/18 – Present	**Kansas Lane-Garrett Road Connector, Monroe, LA:** NSI performing TMP for project as well as developing temporary signal design plans, developing permanent signal design plans, and developing fiber plans to relocate impacted fiber. Mr. Ferlito is performing Traffic Analysis for the project.
08/20 – Present	**I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA:** Project Manager for Interchange Modification Report, Transportation Management Plan 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. The project also includes **signal design**.
01/20 – Present	**I-20 at LA 544 Overpass Replacement, Route I-20, Lincoln Parish, LA:** Project includes preliminary and final design services. It will replace the LA 544 Overpass diamond interchange with a double roundabout interchange and includes a new bridge over I-20 with sidewalks and four multilane roundabouts. Mr. Ferlito provided QA/QC of **signal design** and TMP.
08/20 – 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 be used. **Project includes signals**.
12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes **signalized intersections**.
02/18 – Present	**Kansas Lane-Garrett Road Connector and I-20 Improvements, Monroe, LA:** 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.
07/16 – Present	**I-49 South at Verot School Road, Lafayette, LA:** Performed Traffic QA/QC on the preparation of a Transportation Management Plan and design of temporary and permanent **traffic signals**.
01/19 – 03/20	**District 07 Safety Investment Plan, DOTD District 07:** Project Manager for safety study to evaluate the crash history on state and local highway networks using variations in crash statistics to identify possible roadway issues and potential infrastructure and operations safety countermeasures.
02/16 – 04/18	**LA 22 Corridor Study, Rou Mar Nei Drive to 1st Street, 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 – 04/18	**LA 384 Stage 0, Traffic & Safety Study, Lake Charles, LA:** Project Manager for traffic and safety study for LA 384 (Country Club Road) from Big Lake Road to McNeese Street. Project includes **signalized intersections**.
02/16 – 10/17	**LA 6 Feasibility Study, Stage 0/Traffic & Safety Study, Natchitoches, LA:** Project Manager for the Stage 0 Study, including a comprehensive safety analysis and traffic study for the purpose of analyzing existing and future conditions along the LA 6 corridor between Parish Road 542 west of I-49 to LA 3278 east of I-49, including the LA 6 interchange with I-49 to determine feasible alternatives that will preserve and enhance mobility and safety.
11/16 – 08/19	**LA 385 Feasibility Study, Stage 0/Traffic & Safety Study, Lake Charles, LA:** 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.
10/13 – 12/16	**LA 30 Stage 0 Traffic & Safety Study, Gonzales, LA:** 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. **Project includes signals.**
05/14 – 03/16	**LA 73 Stage 0 Traffic & Safety Study, Prairieville, LA:** Project Manager for the traffic study performed as part of the Stage 0 Report. The traffic study included a TIER analysis for new interchange concepts for the I-10 at LA 73 interchanges as well as corridor improvements between LA 74 and LA 629. In addition, 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. .
03/13 – 02/17	**Grand Prairie Highway Interchange and Frontage Road, Rayne, LA:** PM for an interchange justification report (IJR) for a new interchange along I-10 at LA 98. (Data collection, traffic forecasting, HCS analysis for one build alternative and the no build). The IJR was completed in accordance with FHWA's 8 policy points concerning a request for a break in control of access.
07/13 – 05/15	**Safety Study, LA 49 (Williams Blvd), Kenner, LA:** Project Manager for the Stage 0 Report in support of safety improvements along the US 49 (Williams Boulevard) corridor between Airline Drive and 32nd Street north of I-10.
11/12 – 04/14	**Operational / Safety Study, LA 1088, Mandeville, LA:** Project Manager for a traffic and safety study to evaluate corridor improvement alternatives that included roadway widening and converting traditional intersections to roundabouts.
04/13 – 06/14	**Tarbutton Road at I-20 Interchange Justification Report, Ruston, LA:** Project Manager for the update of the IJR Report for the proposed break in control of access on I-20 for a new interchange at Tarbutton Road in Ruston, LA.
01/13 – 01/14	**US 190 (LA 433 to US 11) Interim Capacity / Widening Improvements Stage 0 Feasibility Study:** Project Manager for traffic and safety evaluation of a 6.6-mile segment of US 190 corridor from LA 433 to US 11.
Career History	Mr. Ferlito is a traffic/transportation engineer who manages a range of traffic and safety related projects. He has served as the project manager/traffic lead on DOTD IDIQ Contracts for Traffic Engineering (44-2630 / 44-4064), **Traffic Signal Timing** (44-1777 / 44-0691), **Traffic Signal Design** (700-99-0447 / 44-4712 / 44-8851), **Traffic Signal Inventories** (700-99-0332 / 44-4829), and Stage 0 Studies (44-1583 / 44-15258) since 2006. Additionally, he has served as project manager for DOTD Safety IDIQ Contracts (44-1583 / 44-4402 / 44-10504 / 44-23689). Nick has also managed local and regional traffic impact studies, intersection studies, corridor studies, transportation management plans, signal timing studies, warrants analysis, **traffic signal inventories, signal design** projects and other traffic engineering related projects for both public and private projects. He is experienced with numerous traffic engineering software packages include HCS, SYNCHRO, Tru-Traffic (TSPPDraft), SIDRA, VISSIM, and Dynameq. Mr. Ferlito is a certified Professional Traffic Operations Engineer (PTOE) and has completed DOTD's **Traffic Engineering Process and Report (TEPR)** training.

Firm employed by Neel-Schaffer, Inc.					
Name	**Dishili Young, PE, PTOE**			Years of experience with this firm/employer	5
Title	Vice President / Engineering Manager			Years of experience with other firm(s)/employer(s)	15
Degree(s) / Years / Specialization			BS / 2002 / Civil Engineering; MS / 2018 / Civil Engineering		
Active registration number / state / expiration date			PE No. 33723 / LA / 09-30-2024		
Year registered	2008	Discipline	Civil	**Has project specific experience.**	
Contract role(s) / brief description of responsibilities			Project Manager **Meets MPR 3**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
10/22 – Present	**East-West Connector (Winfield Road Congestion Relief):** Ms Young is managing roadway design, which includes providing horizontal and vertical geometry (refinements), providing intersection geometry, plan and profile production and InRoads Modeling. **Project Specific**
01/20 – Present	**I-20 at LA 544 Overpass Replacement, Route I-20, Lincoln Parish, LA:** Ms. Young is managing the preliminary and final design services for this project. See project profiles for details. Project includes **roadway drainage and road design**.
08/22 – Present	**LA 89 at Chemin Metairie Parkway, Youngsville, LA:** This project will provide a new two-lane connector **roadway with drainage** between Chemin Metairie Parkway and LA 89.
10/22 – Present	**Velascco Crossing, Youngsville, LA:** This project will provide a new two-lane connector **roadway with drainage** between Chemin Metairie Parkway and the Existing Velascco Crossing.
09/22 – Present	**E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. **Roadway and Drainage Design**.
04/18 – Present	**I-49 South at Verot School Road:** Ms. Young is managing the design services for the interstate design and service **road design (drainage, roadway 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.
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; includes 3 multilane roundabouts and a new bridge crossing of the Vermillion River. NSI provided public outreach, environmental, road design and traffic services. Project Manager. Project includes **road design, roadway drainage, bridge H&H and no-rise certification.**
08/17 – 03/19	**Juban Road Widening:** Ms. Young served as the engineer of record and managed the completion of the **roadway and drainage design** services for this project. See project profile for details.
08/17 – Present	**Mandeville Bypass, Mandeville, LA:** Ms. Young is managing the design services including **roadway and drainage design**. See project profile for details.
08/17 – Present	**Ham Reid at LA 3092 Intersection Improvements:** Serving as engineer of record for project which will construct a roundabout at the intersection of LA 3092 and Ham Reid rd. The **roadway and drainage design** were completed in accordance with LADOTD guidelines.
02/10 – 12/11	**I-10 Widening Design-Build Siegen Ln. (LA Hwy 3246) to Highland Rd. (LA Hwy 74) for LADOTD:** 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 **bridge H&H analysis and scour** analysis for the Wards Creek Bridge. She also assisted with the **roadway drainage design** along the interstate corridor.
01/09 – 11/11	**I-12 Widening Design-Build (O'Neal Ln. to Pete's Hwy) for LADOTD:** Ms. Young served as Engineer for this project which involved the 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, Ms. Young assisted with the **sc**our analysis and bridge H&H analysis at the Amite River as well as the **roadway drainage design** along the interstate corridor.
05/16 – 04/18	**Roadway and Drainage Improvements, Bossier Parish, LA**: Ms. Young managed the design and plan production for eighteen roadways in Bossier Parish.
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 roadway reconstruction sites & 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 roadway and new drainage sites**.

08/17 – 03/20	**LA 73 Turn Lanes:** Ms. Young served as engineering design manager for this project. Completed using LADOTD design standards, guidelines and software. Project includes **roadway and roadway drainage design as well as multi-barrel box culvert H&H.**
09/17 – 10/18	**LA 27 Turn Lanes:** Ms. Young served as engineering design manager for this project. Completed using LADOTD design standards, guidelines, and software.
01/14 – 05/15	**LA 665 Reconstruction, Bayou Pointe aux Chenes:** Assisted with the road design. Completed using LADOTD design standards, guidelines, and software.
01/15 – 03/16	**US 108 & Trousdale Road Turn Lane Improvements:** Ms. Young managed the completion of the preliminary and final plans. Completed using LADOTD design standards, guidelines, and software.
01/15 – 03/16	**US 90 & Walcott Road Turn Lane Improvements:** Ms. Young managed the completion of the preliminary and final plans. Completed using LADOTD design standards, guidelines, and software.
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 provided **roadway design support, created a HEC-RAS model for a major drainage crossing and bridge alternative**, designed the subsurface drainage using LADOTD hydraulics software.
12/21 – Present	**I-10 at I-12 College Drive Design-Build Project:** This project improves the I-10 at College Drive exit by removing the weave 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.
12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes signalized intersections. Ms. Young performed Stage 0 Report, checklist, conceptual **roadway design**, and public outreach.
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments. **Preliminary and Final Road Design**
Career History	Ms. Young offers approximately 20 years of progressive experience which includes program management, engineering management, project management and engineering design. Her experience includes the management and design of interstate design-build projects, interstate design-bid-build projects, road design projects, drainage projects, H&H Studies, environmental studies and feasibility studies. Her Continuing Education is documented as follows: Transportation Safety Systems (Highway Safety Manual Graduate Course), Auburn University, 2016 ATSSA Traffic Control Supervisor Training Course, Baton Rouge, 2015 ATSSA Traffic Control Technician Training Course, Baton Rouge, 2015 NHI Course No. 142005 - NEPA Transportation Decision Making, Baton Rouge, 2014 FHWA Highway Safety Manual Workshop, Baton Rouge, 2014 Roadside Safety Design by the Federal Highway Administration and National Highway Institute, LTRC, 2010 Applying Inroads V8.9, LSU Continuing Education, 2010 Urban Street Design, University of Wisconsin, Madison, Open Channel Design, University of Wisconsin, Madison, Storm Sewer Design, University of Wisconsin, Comprehensive Culvert Design, University of Wisconsin, Maintaining Asphalt Pavements, University of Wisconsin, Using HEC-RAS to compute water surface profiles for floodplains, bridge and culvert hydraulics, University of Wisconsin, Construction Issues in Louisiana, Lorman Education Services Louisiana Construction Contracting for Public Entities, Lorman Education Services DOTD's **Traffic Engineering Process and Report (TEPR)** training

Firm employed by Neel-Schaffer, Inc.					
Name	**Charles Adams, PE, PTOE**			Years of experience with this firm/employer	16
Title	Senior Project Engineer			Years of experience with other firm(s)/employer(s)	13.5
Degree(s) / Years / Specialization			BS / 1992 / Civil Engineering		
Active registration number / state / expiration date			PE No. 27440 / LA / 9-30-2023; PTOE No. 878		
Year registered	1997	Discipline	Civil	**Has project specific experience.**	
Contract role(s) / brief description of responsibilities			Signal Design, Client Liaison		

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).
01/23 - Present	**Wemple Road & Innovation Drive Study, Bossier, LA:** NSI performing a traffic evaluation to determine whether a new N/S road would be justified between Wemple Road and Innovation Drive. Mr. Adams is performing the study and analyzing the impact on the surrounding intersections. *Project Manager.*
10/22 – Present	**East-West Connector (Winfield Road Congestion Relief):** NSI Performing a Traffic Study and Line and Grade for a new east-west corridor through Bossier Parish. Mr. Adams is overseeing the Traffic Study portion of the project and all intersection analyses for the four major intersections. *Project Engineer.* **Project Specific Experience**
08/20 – Present	**I-10 & I-12 College Dr. Flyover Ramp, Baton Rouge, LA:** NSI is performing IMR, TMP, preliminary design, final design, review of TTC plans, and signal design. Mr. Adams is reviewing all TTC plans and developing preliminary signal plans.
02/18 – Present	**Kansas Lane-Garrett Road Connector, Monroe, LA:** NSI performing TMP for project as well as developing temporary signal design plans, developing permanent signal design plans, and developing fiber plans to relocate impacted fiber. Mr. Adams is preparing the TMP and all signal design plans. *Project Manager*
12/17 – Present	**South city 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. The roadway and drainage design are being completed in conformance with LADOTD guidelines. Includes 5 multilane roundabouts. *Mr. Adams is providing the Traffic Control Plans.*
07/16 – Present	**I-49 at Verot School Rd, Lafayette, LA:** NSI is preparing design plans and reviewing the TTC plans and the TMP. Mr. Adams is reviewing the TTC plans and developing the TMP for the project.
10/22 – 01/23	**Lucien Field Phase 3, Shreveport, LA:** NSI is performing a Traffic Impact Assessment for a new phase of an existing subdivision. Mr. Adams performed all analyses required for the assessment. *Project Manager.*
04/22 – 09/22	**Parkway High School, Bossier City, LA:** NSI performed a Safety Study and Circulation Study at the high school and the surrounding intersections. Mr. Adams performed the analyses and observations for this project. *Project Manager.*
01/22 – 06/22	**Swan Lake Road at Innovation Drive, Bossier City, LA:** NSI performed intersection analyses and signal design plans for the intersection. Mr. Adams performed intersection analyses and developed the signal plans. *Project Manager.*
11/21 – 12/21	**Swan Lake Road Speed Study, Bossier City, LA:** NSI performed speed studies along Swan Lake Road from US 80 to Modica Lott Road. Mr. Adams oversaw the analyses and prepared the report of findings. *Project Manager.*
10/21 – 05/22	**Hurricane Ida Emergency Lighting and Signage Project, New Orleans, LA:** NSI performed day inspections of all signs and day and night inspections of all streetlights within Zone 3. Mr. Adams coordinated and oversaw all operations of the project as well as participated in inspections along the interstate system.
10/21 – 12/21	**Wemple Road at Old Brownlee Road Intersection Safety Study, Bossier City, LA:** NSI performed a Safety Study to evaluate the existing conditions of the intersection and to determine whether modifications would be beneficial. Mr. Adams performed all analyses for the study and oversaw the data collection for the project. *Project Manager.*
08/21 – 12/21	**LA 840-6 at Oliver Road, Monroe, LA:** NSI performed a traffic study for the intersection to determine whether left turn lane phasing would be appropriate for the Oliver Road approaches. Mr. Adams oversaw the analyses for the project. *Project Manager.*
05/21 – 08/21	**Tulane Avenue Chick-fil-A, New Orleans, LA:** NSI performed a Traffic Assessment and circulation assessment for a new Chick-fil-A restaurant in the City of New Orleans. Mr. Adams performed analyses, observations and oversaw the circulation assessment. *Project Manager.*

04/21 – 08/21	**Signal Design for Airline Drive and Barclay Blvd, Bossier, LA:** NSI developed traffic signal plans for the new intersection of Airline Drive and Barclay Blvd. Mr. Adams was the designer and developed signal phasing and timings for the project. *Project Manager.*
02/21 – 05/21	**LA Tech Student Housing Study, Ruston, LA:** NSI performed a traffic study for new student housing complex that would serve LA Tech University. Mr. Adams performed all intersection analyses for the project. *Project Manager*
10/20 – 11/20	**Hard Rock Hotel, New Orleans, LA:** NSI prepared TTC plans for the demolition of the Hard Rock Hotel in downtown New Orleans. Mr. Adams prepared TTC and detour plans for the removal of the damaged hotel. *Project Manager.*
09/20 – 06/21	**Venture Global LNG Traffic Study, Plaquemines, LA:** NSI performed numerous traffic assessments for a new LNG facility along LA 23 in south Plaquemines Parish. Mr. Adams performed intersection analyses, prepared TTC plans, and reviewed construction sequencing to reduce the impact on the traveling public.
09/20 – Present	**W Esplanade Ave at Carrollton Street, Metairie, LA:** NSI is preparing preliminary and final signal design plans for the intersection of W Esplanade Ave and Carrollton Street. Mr. Adams is preparing the signal plans. *Project Manager.*
08/20 – 10/20	**St Vincent Avenue at 84th Street, Shreveport, LA:** NSI prepared preliminary and final traffic signal plans for the intersection. Mr. Adams prepared preliminary and final signal plans. *Project Manager.*
11/19 – 07/20	**Golden Pass LNG Safety Study, Port Arthur, TX:** NSI performed traffic safety assessments along FM 87 for the entrances to the LNG facility as well as developing signing plans and lighting plans for each entrance. *Project Manager.*
03/19 – 07/19	**Remco Drive Extension, Haughton, LA:** NSI performed a traffic study to determine feasibility for extending Remco Drive from US 80 to Bodcau Station Road. Mr. Adams performed observations and analyses. *Project Manager.*
01/19 – 03/20	**LA 3 at Walter O Bigby Carriageway, Bossier City, LA:** NSI performed Signal and Sign Design. Mr. Adams developed signal timings and signal phasing as well as prepared the traffic signal plans for the intersections of LA 3 at Walter O Bigby Carriageway and US 80 at Hamilton Road. *Project Manager.*
08/18 – 03/19	**LA 1026 (Juban Rd) Widening, Livingston Parish, LA:** Highway widening project with roundabouts. Mr. Adams prepared TTC plans.
06/18 – 08/18	**Linton Road Extension, Bossier Parish, LA**: NSI performed traffic study to determine feasibility of extending Linton Road to Fairburn Road. Mr. Adams performed analyses. *Project Manager.*
03/18 – 05/18	**New Benton High School, Benton, LA**: NSI performed analyses to determine suitable location for the new Benton High School. Mr. Adams performed observations and analyses. *Project Manager.*
06/17 – 03/18	**Port Access Improvements, New Orleans, LA:** NSI performed extensive analyses and developed alternative accesses from I-10 to the Port of New Orleans. Mr. Adams performed observations and analyses.
01/17 – 07/17	**TCP for Transmission Line Installations, Terrebonne & Assumption Parishes, LA:** NSI prepared TTC plans for numerous installation sites throughout both parishes. Mr. Adams developed and prepared all TTC plans. *Project Manager.*
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade).
12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes signalized intersections. Ms. Adams performed traffic engineering and public outreach.
Career History	Over the past 30 years, Charles has consistently managed and designed projects for the City of Bossier City as well as for the Bossier Parish Police Jury. During 2008 – 2015 he served as Neel-Schaffer's Shreveport Office manager and continues to maintain the relationships gained from that experience. He has established relationships in the local community and knowledge of the project area. His experience in the area includes Traffic Data Collection, Traffic Signal Timing, Traffic Signal design, Traffic Operations, Traffic Safety, ITS and Transportation Engineering. He manages a wide range of local and regional projects that vary in complexity from developing traffic control plans for major construction projects and traffic signal timing plans to performing roundabout feasibility studies and other traffic related studies for both public and private clients. Prior to joining NSI, Charles was employed by LADOTD as a District Traffic Engineer in the Bossier District and then as the State Traffic Engineer. Mr. Adams is a certified Professional Traffic Operations Engineer and has completed DOTD's **Traffic Engineering Process and Report (TEPR)** training.

Firm employed by Neel-Schaffer, Inc.					
Name	**Mai Nguyen, PE**			Years of relevant experience with this employer	7
Title	Roadway Design Engineer			Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering		
Active registration number / state / expiration date			PE No. 38189 / LA / 03-31-2024		
Year registered	2013	Discipline	Civil	**Has project specific experience.**	
Contract role(s) / brief description of responsibilities			Road Design **Meets MPR 3**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/20 – Present	**I-20: LA 544 Overpass Replacement, Route I-20, Lincoln Parish, LA**: Ms. Nguyen is a project engineer for the **preliminary and final design** services for this project. This project will replace the LA 544 Overpass diamond interchange with a double roundabout interchange. The project includes a new bridge over I-20 with sidewalks, four multilane roundabouts, preliminary and final plans as well as signals. Project includes **roadway drainage and road design**.
04/18 – Present	**I-49 South at Verot School Road:** Ms. Nguyen is completing the **roadway design** for this project which will construct 2.4 miles of mainline freeway and 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 is serving as the subconsultant for this project and designing the mainline and frontage roadways and associated a drainage. Project includes preliminary and final plans as well as signals.
08/17 – 03/20	**LA 73 Turn Lanes:** Project Engineer 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. The project includes permitting, preliminary and final plans as well as signals.
08/22 – Present	**LA 89 at Chemin Metairie Parkway, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89. Ms. Nguyen is working on the roadway design for the City of Youngsville. Project includes **preliminary and finals plans**.
10/22 – Present	**Velascco Crossing, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and the Existing Velascco Crossing. Ms. Nguyen is working on the roadway design for the City of Youngsville. Project includes preliminary and finals plans.
11/15 – 07/20	**Southcity Parkway Extension, Phase 1, Robley Drive to Kaliste Saloom Road, Lafayette, LA**: Environmental Assessment, preliminary design and final design. Several conceptual bridge and roadway layouts were developed and studied for a median divided roadway with roundabouts and a bridge crossing the Vermilion River at various locations. Once the optimum location of the bridge crossing was determined and roadway alignments refined, the proposed concept advanced forward for design. She provided design support for the **roadway design**. The project includes preliminary roadway plans.
12/21 – Present	**I-10 at 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.
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. Developed horizontal and vertical alignments. Ms. Nguyen is providing QA/QC. Project includes **preliminary and finals plans**.
9/22 – Present	**E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks. Ms. Nguyen is providing design support and assisting with plan production. Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more. Ms. Nguyen is working on the roadway design for the City of Youngsville. Project includes **preliminary and finals plans.**
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. NSI provided line and grade, environmental, road design, and traffic services. Ms. Nguyen is providing QA/QC. Project includes **preliminary and finals plans**.

06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts, Lafayette, LA:** Road alignment, roundabout layout, and design, preparing cost estimates. Ms. Nguyen is providing QA/QC. The project includes over 20 roundabout intersections.
02/17 – 06/17	**LA 6 (I-49 Interchange to LA 3278) Corridor Study, Natchitoches, LA:** 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.
09/14 – 08/15	**LA 16: Roundabout at LA 447, Livingston, LA:** 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.
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 incudes 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.
05/12 – 10/14	**LA 44 Intersection Improvement at 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:** LA 22 Corridor Study Includes analysis of six roundabout geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study.
02/16 – 04/18	**LA 22 (Rou Mar Nei to 1st) Corridor Study:** LA 22 Corridor Study Includes analysis of proposed roundabout interchange (6 roundabouts) geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study.
02/15 – 12/16	**US 51 Business (I-12 to Coleman) Corridor Study:** US 51 Business Corridor Study. 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 (W University to I-55) Corridor Study:** US 51 Corridor Study. 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.
12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes signalized intersections. Ms. Nguyen performed conceptual roadway design, public outreach, and cost estimates.
Career History	Ms. Nguyen has over 14 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, 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 has involved with feasibility studies, stage 0 reports, environmental assessment study, roadway concept layouts for traffic studies, develop high level cost estimates for multiple District Safety Investment Plans. She is Certified as a Work Zone Traffic Control Supervisor, Technician and Flagger.

Firm employed by Neel-Schaffer, Inc.					
Name	**Gary LeBlanc, PE**			Years of relevant experience with this employer	1
Title	Project Engineer			Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization			BS / 1994 / Civil Engineering		
Active registration number / state / expiration date			PE No. 28220 / LA / 09-30-2023		
Year registered	1999	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Road Design (Geometrics)		

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).
07/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (Preliminary and final design).
07/22 – 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. Project includes line and grade tasks (establish design criteria, develop typical sections, horizontal geometry, vertical geometry). QA/QC
07/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (Preliminary and final design). Technical lead and engineer of record.
07/22 – Present	**E. Milton Ave. Roundabout Widening and Corridor Improvements, Youngsville, LA:** QA/QC this project includes a line and grade, preliminary and final plans for a 1.1-mile project at the intersection of Chemin Metairie Road and E. Milton Avenue. This project includes adding a two-way left turn lane to existing 2-lane and convert a single roundabout to multilane roundabout. The corridor includes subsurface drainage, restricted crossing U-turn, and raised median to prevent left turn movements.
6/22 – Present	**H.001779 Jimmie Davis Bridge (LA 511) (HBI) Design Build:** This project will replace the existing 5 lane roadway with a 4 lane median divided roadway with turn lanes. It will provide a new bridge crossing for LA 511 at the Red River and will also modify the existing bridge crossing for use as a linear park and provide a multiuse path. Neel-Schaffer is providing the roadway drainage design, traffic analysis, signal design, striping and signing plans, road design support and Bridge H&H and Scour for the river crossing. This preliminary design is being completed in support of the Design Build Proposal document. Traffic and road design support.
07/22 – Present	**IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62):** This project provides 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. QA/QC.
12/12 – 07/22	Design Development Engineer Manager – LADOTD • Manages a staff of Engineering Interns, Design Engineers, and Engineer Technicians. Primary roles of the section include geometric design, striping, temporary traffic control and traffic management plans. • Assists with the development of standard plans and engineering directive and standards for highway agency in the expertise of geometric design, complete streets, temporary traffic control, roundabouts, and pavement markings. • Engineer of record for Louisiana Department Of Transportation's Pavement marking Standard Plans and Temporary Traffic Control Standard Plans. • Member DOTD Work Zone Task Force
04/07 – 12/12	HPMS/Highway Needs Engineer – LADOTD • Maintained the Highway Needs database and prepared the annual Highway Needs report to the Louisiana legislature. The Highway needs information is used as an aid to select projects in the DOTD highway program. • Administered and developed the Highway Performance Monitoring System for DOTD. Prepared and submitted the annual HPMS Report to FHWA. The HPMS system is used by FHWA in various appropriation formulas which helps determine Louisiana's apportionment of the federal highway funds.
1999 – 04/07	Design Engineer – LADOTD

	• Technical expert in selecting, designing, providing and maintaining criteria and methodology relative to the MUTCD and AASHTO Geometric Guidelines to ensure that most current concepts will be applied to Department's policies and design standards. Primary responsibilities included geometric design, capacity analysis, traffic studies, interstate signing projects, feasibility studies, scope of services negotiations, man-hour/ cost estimates, and plan reviews.
06/94 – 1999	Engineer Inter – LADOTD • Conducted capacity analysis and prepared intersection geometry layouts. • Reviewed roadway and bridge plans to determine if LADOTD and AASHTO standards and policies are adequately followed and drafted letters detailing the results of the review and offer corrective measures. • Prepared and updated construction cost estimates. • Responsible for developing construction plans to permanently sign or replace signing on controlled access highways statewide.
Certifications	• Professional Civil Engineer – State of Louisiana • Professional Environmental Engineer – State of Louisiana • Professional Traffic Operations Engineer • Traffic Engineering Process and Report (Modules 1, 2 & 3) – DOTD • Safety Inspection of In-Service Bridges – National Highway Institute • National Incident Management System – FEMA • Crash Investigation and Reconstruction – Northwestern University

Firm employed by Neel-Schaffer, Inc.					
Name	**Chance Shuckrow, PE**			Years of relevant experience with this employer	9
Title	Project Engineer			Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering		
Active registration number / state / expiration date			PE No. 42746 / LA / 03-31-2025		
Year registered	2018	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Road Design **Meets MPR 3**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/22 – Present	**E. Milton Ave. Improvements, Youngsville, LA:** This project will widen the existing roundabout at the intersection of E. Milton Ave. and Chemin Metairie Rd. from a single-lane to a multi-lane roundabout, as well as provide corridor improvements along E. Milton Ave. Technical lead on **drainage design** and QA/QC on line and grade, roadway design.
06/21 – Present	**St. Tammany Parish Coastal Master Plan, St. Tammany Parish, LA:** Provided engineering support for development of horizontal and vertical alignments (line and grade) in development of multiple alternatives of raising elevations and widening US Hwy 11 and Lakeview Dr to provide storm resilience.
08/22 – Present	**LA 89 at Chemin Metairie Parkway, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89. Project includes **preliminary and final plans and roadway drainage**.
10/22 – Present	**Velascco Crossing, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and the Existing Velascco Crossing. Project includes **preliminary and final plans and roadway drainage.**
06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts, Lafayette, LA:** Road alignment, roundabout layout, and design, preparing cost estimates. The project includes over 20 roundabout intersections.
01/20 – Present	**I-20: LA 544 Overpass Replacement, Route I-20, Lincoln Parish, LA**: Chance is a design engineer supporting the drainage design services for this project. This project will replace the LA 544 Overpass diamond interchange with a double roundabout interchange. The project includes a new bridge over I-20 with sidewalks, four multilane roundabouts, **preliminary and final plans; roadway drainage; and signals**.
08/17 – 03/20	**LA 73 Turn Lanes:** Project Engineer for this project which constructed turn lanes at multiple locations along LA 73 in Ascension Parish. The roadway and drainage design were completed in accordance with LADOTD guidelines. The project included permitting, **preliminary and final plans**; roadway drainage; and signals.
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 (line and grade) and modeled the project with Bentley software, assisted with the drainage design and preparation of plans. Project included **preliminary and final plans as well as roadway drainage.**
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, line and grade, environmental, road design and traffic services. Project includes **preliminary and final plans and roadway drainage**, Bridge H&H for Vermilion River, and no-rise certification for Vermilion River.
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade). Technical lead and engineer of record. **Preliminary and final roadway plans**.
09/15 – Present	**LA 27 Left Turn Lanes for Cameron LNG Plant in Cameron Parish, LA:** Assisted in roadway design, development of alignments (line and grade), 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. Developed horizontal and vertical alignments (line and grade). Project

	includes **preliminary and final plans and roadway drainage**.
02/15 – 12/16	**US 51 Business Corridor Study (I-12 to Coleman):** Provided engineering support for **line and grade geometric alternatives** and cost estimates supporting the study. Project includes analysis of three roundabout geometry intersections.
02/15 – 10/16	**US 51 Corridor Study (W University to I-55):** Provided engineering support for **line and grade geometric alternatives** and cost estimates supporting the study. Project includes analysis of eight roundabout geometry intersections.
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. NSI provided line and grade, environmental, preliminary and final road design, and traffic services. Project includes **preliminary and final plans and roadway drainage**.
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. This project includes new line and grade layouts. Project includes **preliminary and final plans**; roadway drainage; and signals.
08/17 – 07/18	**I-10 New Orleans Master Plan**: Provided engineering support for developing horizontal and vertical alignments of roadways (line and grade), 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.
12/21 – Present	**I-10 at 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**.
11/14 – 04/17	**US 190 Collins Boulevard Line and Grade Study for NORPC in St. Tammany Parish (SPN H.004987):** Includes ten roundabout geometry intersections. Assisted in geometric layout of roadway and design of horizontal and vertical profiles for line and grade study.
Career History	Mr. Shuckrow joined Neel-Schaffer in January of 2014. In his time at Neel-Schaffer, he has worked in design of roadways, freeways, signalized and roundabout geometry intersections. He has worked in the design of drainage, horizontal and vertical profiles, and corridors. He has also worked in cost estimating of projects and in the preparation of roadway design plans.

Firm employed by Neel-Schaffer, Inc.			
Name	**Scott Andrepont, PE**	Years of relevant experience with this employer	10
Title	Project Engineer	Years of relevant experience with other employer(s)	4

Degree(s) / Years / Specialization			BS / 2005 / Civil Engineering; MS / 2007 / Civil Engineering
Active registration number / state / expiration date			PE No. 37107 / LA / 09-30-2024
Year registered	2012	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. Experience dates should cover the time specified in the applicable MPR(s).
09/22 – Present	**E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks, as well **as preliminary and finals plans**.
08/22 – Present	**LA 89 at Chemin Metairie Parkway, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89. Project includes **preliminary and finals plans**.
10/22 – Present	**Velascco Crossing, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and the Existing Velascco Crossing. Project includes **preliminary and finals plans**.
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade). **Preliminary plans** completed. **Final design** ongoing.
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*
08/17 – Present	**Lafayette Downtown Sidewalks, Curb, and Overlay, Lafayette, LA:** Replacement of existing sidewalks and signage along the route, improvements for pedestrian crossings, construction administration. *Project Engineer*
01/10 – Present	**St. Martinville Downtown Streetscape, St. Martinville, LA:** Replacement of existing sidewalks, improvements for pedestrian crossings, landscape design. *Project Engineer*
07/14 – 03/15	**US 90 @ LA 318:** Roadway profiles, cross sections, quantities, and cost estimates. *Project Engineer*
04/18 – Present	**I-49 South at Verot School Road:** This project which will construct 2.4 miles of mainline freeway and 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. Neel-Schaffer is serving as the subconsultant for this project and designing the mainline and frontage roadways and associated drainage. Project includes **preliminary and finals plans** as well as signals. *Project Engineer*
08/12 – 03/19	**LA 1026 (Juban Road) Widening (I-12 to US 90), Lafayette, LA:** Road profiles, roundabout design, preparing cost estimates. *Project Engineer*
06/13 – Present	**Stage 0 Feasibility Study Modern Roundabouts, Lafayette, LA:** Road alignment, roundabout layout, and design, preparing cost estimates. *Project Engineer*
03/15 – Present	**East 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. Project includes **preliminary and finals plans**.
11/13 – 04/15	**US 90 (Future I-49) LA 318**: Project Engineer supporting Interchange DB Project Road profiles, roundabout design, preparation of cost estimates.
10/18 – 05/19	**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.

10/17 – 01/19	**LA 27 Turn Lane Construction, Cameron Parish, LA**: Mr. Andrepont assisted with the construction administration for the turn lane installation, signage and roadway improvements
01/12 – 04/12	**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
04/20 – 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**: 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.
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. He is also an ATSSA – Work Zone TCS/TCT/Flagger.

Firm employed by Neel-Schaffer, Inc.					
Name	**Joshua Schexnider, PE**			Years of relevant experience with this employer	6.5
Title	Engineer			Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization			BS / 2016 / Civil Engineering; BS / 2000 / General Studies		
Active registration number / state / expiration date			PE No. 45891 / 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. Experience dates should cover the time specified in the applicable MPR(s).
06/22 – Present	**W Broussard Road @ Duhon Road Roundabout Design:** Existing drainage determination, proposed drainage design and plan preparation. Includes roundabouts. Included tasks similar to a line and grade.
09/22 – Present	**E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks, as well as **preliminary and finals plans**.
08/22 – Present	**LA 89 at Chemin Metairie Parkway, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89. Project includes **preliminary and finals plans**.
12/22 – Present	**LA 89 @ Guillot Rd Improvements:** Existing drainage determination, proposed drainage design and plan preparation. Includes roundabouts. Included tasks similar to a line and grade
07/21 – Present	**Earhart Expressway Masterplan:** Assisting in organizing and prioritizing several proposed projects along Earhart Expressway in Jefferson and Orleans Parishes.
07/21 – Present	**LA 10 Improvements:** Assisting in project prioritization and creating Stage 0 reports for multiple proposed projects for the LA 10 corridor in Bogalusa, LA.
03/20 – 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. Project includes preliminary and final plans as well as signals.
03/20 – Present	**I-69 Frontage Road (Ellerbe Road to LA 1; Stonewall-Frierson Road):** Assisted with the design of horizontal alignments for upgrading and extending existing roadway and intersection design. Also assisted in production of project Stage 0 Reports.
11/19 – Present	**IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62):** This project will include signing, drainage and pedestrian improvements for four projects. Planning/Environmental, Design and construction related engineering. *Mr. Schexnider is providing engineering support.*
10/19 – 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.
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. 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. Project includes preliminary and final plans as well as signals.
12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes signalized intersections. Mr. Schexnider performed Stage 0 Report, checklist, and public outreach.
01/17 – 07/20	**Southcity Parkway Extension (EA), 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.
06/16 – 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.
Career History	Mr. Schexnider is a design engineer and has been assigned to a variety of projects which include safety projects, roadway design, drainage 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. He is also an ATSSA – Work Zone TCS/TCT/Flagger.

Firm employed by Neel-Schaffer, Inc.					
Name	**Stephen Perault**			Years of relevant experience with this employer	5
Title	Senior Technician			Years of relevant experience with other employer(s)	33
Degree(s) / Years / Specialization			N/A		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			CAD		

Has project specific 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).
10/22 – Present	**East-West Connector (Winfield Road Congestion Relief):** CAD Designer for roadway design, which includes providing horizontal and vertical geometry (refinements), providing intersection geometry, plan and profile production and InRoads Modeling. **Project Specific**
12/14 – 08/17	**LA 447 Corridor Study: This Project would widen LA 447** between La 16 and Burgess Ave. Assisted with plan production and the geometric design (line and grade) for the R-Cut and roundabout improvements.
08/22 – Present	**LA 89 at Chemin Metairie Parkway, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89.
10/22 – Present	**Velascco Crossing, Youngsville, LA:** This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and the Existing Velascco Crossing.
09/22 – Present	**W. Broussard Road @ Duhon Roundabout, Lafayette Parish, LA**: This project will provide a single lane roundabout at Duhon Rd./W. Broussard Rd. intersection and includes curb and gutter with sidewalks. Steve is assisting with plan production. Tasks like Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
09/22 – Present	**E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks. Mr. Perault is providing design support and assisting with plan production. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
12/17 – Present	**Southcity Parkway Extension, Lafayette, LA:** Project will construct new 1.7 – mile, 4 lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road and a new bridge crossing of the Vermillion River. The roadway and drainage design is being completed in conformance with LADOTD guidelines and provides multimodal facilities. Mr. Perault is providing design support and assisting with the plan production. Project included Line and Grade.
08/17 – Present	**Juban Road Widening**: Design support and plan production for this project which will widen LA 1026, construct shared use paths, construct two multilane roundabouts and two new frontage access roadways. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
02/20 - Present	**I-20 at LA 544 Overpass Replacement, Lincoln Parish, LA**: This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes four multilane roundabouts located in a tight project area with many constraints and large grade changes. The roundabouts will connect ramps and service roads with adjacent businesses. The project includes new bridge with sidewalk over I-20. The entire project limits are complete street compliant which means it provides facilities for all users. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
08/17 – 03/20	**LA 73 Turn Lanes**: This project constructed turn lanes at multiple locations along LA 73 in Ascension Parish. The roadway and drainage design was completed in accordance with LADOTD guidelines. Mr. Perault provided design support and assisted with plan production. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
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. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
04/18 – Present	**I-49 South at Verot School Road**: 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. Mr. Perault is providing design support and assisting with the plan production. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more.
02/20 – 01/22	**I-69 Stage 0 Frontage Road (Stonewall Frierson Road) Desoto Parish, LA:** This project will provide a connection between I-49 and the proposed future I-69. The project includes bridge replacements, upgrading and extending existing roadway. Assisted with the cost estimates and concept layouts. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry.
02/20 – 01/22	**I-69 Stage 0 Frontage Road (Ellerbe Road) Caddo Parish, LA:** This project when combined with the proposed I-69 will provide a connection between Port of Caddo-Bossier and I-49. The projects include bridge replacements, upgrading and extending existing roadway to current design guidelines. Assisted with the cost estimates and concept layouts. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry.
02/19 – Present	**Streetscape Improvements US 71 (Barksdale Blvd.); Bossier Parish, LA:** Project includes approximately 1.5 miles of sidewalk and drainage improvements along US 71 (Barksdale Blvd.). Engineering Support
08/17 – Present	**Lafayette Downtown Sidewalks, Curb, and Overlay, Lafayette, LA:** Replacement of existing sidewalks and signage along the route, improvements for pedestrian crossings, construction administration. Engineering Support
Career History	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.

Firm employed by Neel-Schaffer, Inc.					
Name	**Frank Standige, PE**			Years of experience with this firm/employer	6
Title	Senior Project Engineer			Years of experience with other firm(s)/employer(s)	30
Degree(s) / Years / Specialization			BS / 1982 / Civil Engineering		
Active registration number / state / expiration date			PE No. 24023 / LA / 03-31-2024		
Year registered	1988	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Constructability QA/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).
02/20 – Present	**I-20 @ LA 544 Overpass Replacement, Lincoln Parish, LA:** This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. Mr. Standige is providing constructability review and advice. **Preliminary and final plans.**
12/20 – 02/21	**Juban Road Widening, Livingston Parish, LA:** Providing construction support. Mr. Standige was recently able to solve a drainage issue in the field during construction. **Preliminary and final plans.**
02/17 – 04/19	**LNG Turn Lanes, LA 27 Permit Project, Cameron Parish, LA:** *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:** 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, Jefferson Parish, LA:** 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, LA:** *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.
06/02 – 03/04	**Clearview Pkwy - Causeway Blvd. (Auxiliary Lanes):** *Project Engineer* for the construction of new concrete auxiliary 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):** 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 Drive:** 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, LA:** 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

Firm employed by Neel-Schaffer, Inc.					
Name	**Phil Graves, PE**			Years of relevant experience with this employer	1
Title	Senior Project Manager			Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization			BS / 1997 / Civil Engineering		
Active registration number / state / expiration date			PE No. 29640 / LA / 09-30-2023		
Year registered	2001	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Constructability		

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).
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Performed Constructability and Biddability reviews of the plans. **Preliminary and final road design.**
09/22 – Present	**E. Milton Ave. Roundabout Widening and Corridor Improvements, Youngsville, LA:** Constructability and Biddability reviews. Project includes line and grade tasks (establish design criteria, develop typical sections, horizontal geometry, vertical geometry), preliminary and final plans for a 1.1-mile project at intersection of Chemin Metairie Road and E. Milton Avenue. This project includes adding a two-way left turn lane to existing 2-lane and convert a single roundabout to multilane roundabout. The corridor includes subsurface drainage, restricted crossing U-turn, and raised median to prevent left turn movements. **Preliminary and final road design.**
02/22 – 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. Project includes line and grade tasks (establish design criteria, develop typical sections, horizontal geometry, vertical geometry) Constructability and Biddability reviews. **Preliminary and final road design.**
10/09 – 04/12	**I-55 Rehabilitation, Tangipahoa Parish, LA:** Area Engineer. As Area Engineer helped oversee four separate projects that rubbilized and overlaid Interstate 55 from US 51 (Morrison Boulevard) to the Mississippi state line. The rubbilization process is a complex technique that breaks existing concrete into small pieces, creating a better base for the asphalt overlay.
02/15 – 02/16	**I-12 Interchange Improvements, Tangipahoa Parish, LA:** Area Engineer. Converted the conventional signalized on/off ramps of I-12 at US 51-X to roundabout configurations (two total) and installed a roundabout at the intersection of US 51-X and Club Deluxe Road.
02/15 – 04/16	**LA 637 (W. 10th Street) Widening Project, St. John the Baptist Parish, LA:** Area Engineer. Provided widening services for LA 637 from US 61 (W. Airline Hwy) to LA 44 (River Road, including new subsurface drainage system.
11/10 – 11/11 08/16 – 08/17 10/19 – 05/22	**Safety Cable Barrier Installation Projects, Tangipahoa, St. John the Baptist, and Livingston Parishes, LA:** Area Engineer. Area Engineer for three separate projects that installed safety cable barriers along I-12, I-10, and I-55 in Tangipahoa, St. John the Baptist, and Livingston parishes.
01-03 – 12/04	**LA 964 Widening, East Baton Rouge Parish, LA:** Project Engineer. Project Engineer for this project that reconstructed and realigned LA 964 from US 61 (Scenic Hwy) to LA 64 (Church Street).
08/02 – 12/04	**Intelligent Transportation Systems (ITS), Phases 1 and 2, East Baton Rouge Parish, LA:** Project Engineer. Project Engineer for two separate projects that installed ITS devices, fiber, and buildings and tied it in to the Transportation Management Center (TMC).
03/05 – 06/06	**US 61 (Airline Hwy) Intersection Improvements, East Baton Rouge Parish, LA:** Project Engineer. Project Engineer for this intersection conversion project. Converted the conventional 4-way signalized intersection to a Continuous Flow Intersection (CFI) at LA 3246 (Siegen Lane).
08/06 – 08/07	**LA 19 (Main Street) Widening Project, East Baton Rouge Parish, LA:** Project Engineer. Project Engineer for project to widen LA 19 from Lavey Lane to Wimbish Drive.
03/06 – 03/07	**US 61 (Airline Hwy) Widening Project, East Baton Rouge Parish, LA:** Project Engineer. Widened US 61 from LA 73 (Jefferson Hwy) to US 190 (Florida Blvd).
12/06 – 01/09	**LA 946 (Joor Road) Widening, East Baton Rouge Parish, LA:** Project Engineer. Project Engineer for this project to reconstruct and realign LA 946 from Mickens Road to LA 408 (Hooper Road), including the construction of a new bridge over the Comite River

10/09 – 02/12	**I-55 Rehabilitation, Tangipahoa Parish, LA:** Area Engineer. Helped oversee four separate projects that rubbilized and overlaid Interstate 55 from US 51 (Morrison Boulevard) to the Mississippi state line. The rubbilization process is a complex technique that breaks existing concrete into small pieces, creating a better base for the asphalt overlay.
Career History	Mr. Graves joined Neel-Schaffer in 2022 and serves as a Senior Project Manager based in the firm's Baton Rouge (LA) office. Phil joined Neel-Schaffer shortly after retiring from the Louisiana Department of Transportation and Development after 25 years of service, the last 13 as the District 62 Area Engineer in Livingston and St. Helena parishes. He will be a part of Neel-Schaffer's Louisiana Transportation Department, providing quality assessment/quality control and constructability reviews. He will also help the firm expand and develop its Construction Engineering and Inspection services throughout Louisiana in both the Transportation and Water Resources sectors. Phil has extensive experience in laboratory sampling and testing, roadway and bridge construction oversight and management, roadway and bridge maintenance management, roadway structure design, and roadway preservation management

Firm employed by Neel-Schaffer, Inc.					
Name	**Ronald Kirk Gallien, PE, PTOE**			Years of experience with this firm/employer	2
Title	Senior Project Manager			Years of experience with other firm(s)/employer(s)	36
Degree(s) / Years / Specialization			BS / 1984 / Civil Engineering		
Active registration number / state / expiration date			PE No. 23428 / LA / 09-30-2023; PTOE No. 1288		
Year registered	1989	Discipline	Civil		
Contract role(s) / brief description of responsibilities			TMP/TCP/Traffic Study/IMR/Safety Analysis		

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).
02/20 – Present	**I-20 at LA 544 Overpass Replacement, Lincoln Parish, LA**: This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes four multilane roundabouts located in a tight project area with many constraints and large grade changes. The roundabouts will connect ramps and service roads with adjacent businesses. The project includes new bridge with sidewalk over I-20. The entire project limits are complete street compliant which means it provides facilities for all users. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more. Mr. Gallien provided TMP review. **Preliminary and final plans.**
1994 – 2007	**DOTD District 05 – District Traffic Operations Engineer** • Performed numerous traffic studies and composed numerous traffic engineering reports regarding traffic control such as traffic signal installations and modifications, signing, pavement markings, and establishing speed limits. • Annually investigated and analyzed existing traffic control devices at locations identified as having a high potential for safety improvement and recommended and implemented modifications to improve traffic flow and safety at these locations. • Coordinated and supervised upgrading all traffic signals (approximately 275) in District 05 from electromechanical to electronic controller operations. • Worked closely with private developers and public entities regarding access to proposed developments to ensure conformance with DOTD standards • Completed construction lay-out of pavement markings on numerous highway construction projects, including centerline passing/no passing zone markings on overlay projects. • Served as the legal expert in traffic engineering for District 05, and responded to interrogatories and requests for production, gave depositions, and testified in court Projects: • Computerized Traffic Signal System in District 05 (State Project No's. 015-31-0043 & 016-01-0034) – provided technical assistance to the consultant during design of the project as well as construction personnel during installation of the field equipment. After completion of the project, implemented and used the computerized traffic signal system to manage traffic operations on US 165. • I-20 Elevated Section Rehabilitation Ouachita Parish (State Project No's. 451-06-0121 & 451-06-0139) – provided technical assistance regarding interstate lane closures and traffic control during design and construction of the project. • I-20 Mississippi River Bridge Modifications – provided technical assistance regarding interstate lane closures and traffic control during design and construction of the project.
2007 – 2014 2018 – 2020	**DOTD District 05 – Assistant District Administrator of Operations** • Supervised traffic engineering and operations, district-wide roadway maintenance, bridge inspection and maintenance, and roadside development activities in District 05. • Reviewed traffic impact studies and reviewed and approved access connection, utility, and project permits in District 05. • Planned, managed, and directed all emergency response activities in District 05, which included emergency response, repairs, and recovery related to hurricanes, flooding, tornados, and winter weather.
2014 – 2018	**DOTD Headquarters – Assistant Secretary of Operations**

2020 – 2022	• Completed traffic studies and prepared written Traffic Engineering reports. Specific duties of traffic engineering studies included compiling filed data, performing peak period observations, performing analyses, QA/QC of field data and analyses, forming conclusions and recommendations based on the results of analyses, and preparation of technical reports. Studies included developments such as a 600-student middle school, a 400-student charter school, commercial subdivision, and a 650-unit student housing facility near Louisiana Tech University. Traffic studies and Traffic Engineering written reports also included modifications to existing traffic control devices such as traffic signal installations and modifications, signing, and pavement markings. • Compiled field data and assisted with analysis of data and preparation of a written report to create a District 05 Safety Investment Plan for DOTD District 05, 4400010504, Task Order No. H.014295.1. This included analysis of crash data, determination of crash patterns, determination of appropriate safety countermeasures, benefit/cost analyses, compilation of results and compilation of recommended safety improvements for 32 state and local segments as well as 99 state and local intersections. • Prepared Level 4 Transportation Management Plan for the I-10 and I-12 College Drive Flyover Design Build project, H.013897.6. Preparation of the plan included identifying the scope, goals, and constraints of the project, performing traffic and safety analyses, and assessing detour routes to effectively manage traffic during the project. Assisted with developing plans for stakeholder and public involvement during the project as well as the development of plans for maintenance of traffic, temporary traffic control, and work zone management strategies to be implemented during the project. • For the Garrett Road-Kansas Lane Connector project, H.007300, assisted in preparation of a Level 4 Transportation Management Plan. Assisted with designing temporary traffic control and temporary traffic signal construction and operations required for the project. Reviewed plans and performed QA/QC for temporary and permanent traffic control throughout the entire project limits.
Certifications	• Professional Civil Engineer – State of Louisiana • Professional Environmental Engineer – State of Louisiana • Professional Traffic Operations Engineer • Traffic Engineering Process and Report (Modules 1, 2 & 3) – DOTD • Safety Inspection of In-Service Bridges – National Highway Institute • National Incident Management System – FEMA • Crash Investigation and Reconstruction – Northwestern University

Firm employed by Neel-Schaffer, Inc.					
Name	**Jonathan Duhe, PE, PTOE, RSP**			Years of experience with this firm/employer	9
Title	Project Engineer			Years of experience with other firm(s)/employer(s)	1
Degree(s) / Years / Specialization			BS / 2011 / Civil Engineering		
Active registration number / state / expiration date			PE No. 41047 / LA / 03-31-2025; PTOE No. 4418; RSP No. 282		
Year registered	2016	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Signal 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).
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade). **Preliminary and final plans.**
02/20 – Present	**I-20 at LA 544 Overpass Replacement, Lincoln Parish, LA**: This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes four multilane roundabouts located in a tight project area with many constraints and large grade changes. The roundabouts will connect ramps and service roads with adjacent businesses. The project includes new bridge with sidewalk over I-20. The entire project limits are complete street compliant which means it provides facilities for all users. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more. **Mr. Duhe provided signal design review**. **Preliminary and final plans.**
08/22 – Present	**LRSP Ardenwood Dr Road Diet, Baton Rouge, LA:** Project Engineer, Responsible for Data Collection (Traffic Counts and Peak Hour Observations), Traffic Forecasting, Safety Analyses, Corridor Operational Analyses (HCS, Sidra), Safety Analyses, Traffic Report Preparation
07/21 – Present	**FYA Signal Improvement (LCG), Lafayette, LA:** *Project Engineer*. Oversaw development of signal plans to upgrade 28 intersections to include flashing yellow arrow **signal heads** as well as backplates.
09/21 – Present	**Harding Blvd at I-110, Baton Rouge, LA:** *Traffic Engineer*. Performing a traffic study along Harding Boulevard between Rosewood Street and Merle Gustafson Drive including the I-110 Ramps in an effort to improve capacity. Assisted with data collection and Initial Data Collection Report.
09/20 – Present	**College Drive Enhancement Project, Baton Rouge, LA:** *Traffic Engineer.* Performing a traffic study along College Drive between Perkins Road and Bawell Street/Bankers Avenue including the I-10 Ramps in an effort to improve capacity and safety. Assisted with data collection including peak period observations and travel time runs. Also performed safety analysis along the College Drive corridor.
06/20 – Present	**I-10/12 College Drive Flyover Design Build, Baton Rouge, LA:** *Traffic Engineer.* Performing a traffic study at the I-10/12 merge in an effort to improve capacity and safety. Assisted with uncalibrated VISSIM model. Assisted with safety analysis and **signal design.**
04/20 – 06/21	**District 05 Safety Investment Plan District 05, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
02/19 – 03/20	**District 07 Safety Investment Plan District 07, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
11/17 – 04/19	**District 08 Safety Investment Plan District 08, LA:** *Traffic Engineer*. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation.
11/16 – 04/19	**LA 385 (Ryan St) Feasibility Study, Lake Charles, LA:** *Traffic Engineer*. Assisted with intersection analysis including Vistro analysis. Assisted with safety analysis including reviewing crashes, creating collision diagrams, identifying conflict points, and using LaDOTD's CATScan tool to analyze safety. Also assisted with report preparation.
02/16 – 10/17	**LA 6 Feasibility Study, Natchitoches, LA:** *Traffic Engineer*. Assisted with intersection analysis including Sychro and Sidra analysis. Assisted with safety analysis including reviewing crashes, creating collision diagrams, and using the HSM Predictive method to analyze safety of potential alternatives. Also assisted with report preparation.
02/15 – 12/17	**US 51 Business (I-12 to Coleman) Corridor Study:** *Traffic Engineer.* Assisted with report preparation.

06/15 – 07/16	**LA 431 at LA 934 Intersection Improvements, Ascension Parish, LA:** Performed a traffic signal timing study for 5 intersections along LA 431 and signal design plans for the intersection of LA 431 at LA 934 in association with the proposed intersection improvements.
04/18 – 06/19	**LA 1256 Adaptive Signal System, Cameron Parish, LA:** Engineer for modification of 5 traffic signals along LA 1256 from Dave Dugas Road to I-10 in Sulphur, LA in order to implement the SynchroGreen Adaptive traffic signal system.
03/20 – 06/20	**Braud Rd at Germany Rd Temp. Signal Design, Gonzales, LA:** *Project Engineer* developed signal layout and timing parameters for temporary signal. Signal design included developing Clearance Calculations, utilizing Synchro for signal timing, designing in MicroStation software, developing Intersection Quantities, and creating a Traffic Signal Inventory)
03/19 – 11/19	**District 08 Signal Timing Study, Natchitoches, LA:** *Project Engineer* Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs
03/19 – 11/19	**US 61 Signal Timing Study, Baton Rouge, LA:** *Project Engineer* Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs
04/19 – 11/19	**LA 14 Signal Timing Study, Lake Charles, LA:** *Project Engineer* Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs
12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes signalized intersections. Oversaw Intersection Operational Analyses (HCS), safety analysis, alternative development, and traffic report preparation.
Career History	Mr. Duhe joined Neel-Schaffer in 2013 and has nearly a decade of experience working on a wide range of traffic and transportation projects. Mr. Duhe has worked on many intersection/corridor signal timing studies and signal design projects and other traffic engineering related projects for both public and private projects. Mr. Duhe is experienced with numerous traffic engineering software packages include HCS, SYNCHRO, VISTRO, Tru-Traffic (TSPPDraft), and SIDRA. Mr. Duhe has completed training and has experience using LADOTD's **CAT Scan safety tool**. Mr. Duhe is a certified Professional Traffic Operations Engineer (PTOE), a **Road Safety Professional (RSP1)** and has completed LADOTD's **Traffic Engineering Process and Report (TEPR)** training.

Firm employed by Neel-Schaffer, Inc.					
Name	**Lonny Territo**			Years of experience with this firm/employer	8
Title	Senior Technician			Years of experience with other firm(s)/employer(s)	9
Degree(s) / Years / Specialization			N/A		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Data Collection		

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).
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade).
05/15 – Present	**LA 328 Stage 0, Traffic & Safety Study, Breaux Bridge, LA:** Develop to traffic and safety analysis of the LA 328 in proximity to I-10 in St. Martin Parish. Performed traffic counts and traffic controller downloads.
06/14 – Present	**Baton Rouge Computerized Signalization, Phases IV and V, Baton Rouge, LA:** performed traffic engineering, signal design and construction services in support of the City of Baton Rouge computerized signalization. Phase IV included 21 intersections and Phase VA included 23 intersections. Phase VB which is currently in the design phase includes 24 intersections. Performed traffic counts and traffic controller downloads.
09/14 – 01/18	**District 02 Traffic Signal Inventory Retainer Contract, – LA 39, LA 46 & LA 47 Corridor Improvements:** Performed traffic counts and traffic controller downloads.
09/14 – 01/18	**District 02 Traffic Signal Inventory Retainer Contract, LA 39, LA 46 & LA 3021 Corridor Improvements:** Performed traffic counts and traffic controller downloads.
09/14 – 01/18	**District 02 Traffic Signal Inventory Retainer Contract, I-610, I-10, US 90 & LA 3021 Corridor Improvements:** Performed traffic counts and traffic controller downloads.
09/14 – 01/18	**District 02 Traffic Signal Inventory Retainer Contract, US 90, US 61 & LA 611-9 Corridor Improvements:** Performed traffic counts and traffic controller downloads.
09/14 – 01/18	**District 02 Traffic Signal Inventory Retainer Contract, US 61 & LA 3154 Corridor Improvements:** Performed traffic counts and traffic controller downloads.
08/14 – 08/17	**Retainer Contract for Traffic Signal Engineering, US 80 Traffic Control Signal Upgrades, Shreveport, LA:** Provided signal design plans and signal timing plans at 20 intersections along US 80 in Shreveport, LA. Performed traffic counts and traffic controller downloads.
07/14 – 12/14	**Baton Rouge Computerized Signalization Phase VA, Baton Rouge, LA:** Phase VA included 23 intersections, performed construction inspection in support of the City of Baton Rouge computerized traffic signal synchronization system. Performed construction inspection as the Resident Project Representative.
12/14 – 05/15	**Retainer for Signal Timing Studies Districts 61, 62 & 02, LA 3040 / LA 20 / LA 57, Houma and Thibodaux, LA:** Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads.
12/14 – 05/15	**Retainer for Signal Timing Studies Districts 61, 62 & 02, US 11, Slidell, LA:** Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads.
12/14 – 05/15	**Retainer for Signal Timing Studies Districts 61, 62 & 02, LA 44, Gonzales, LA:** Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads.
12/14 – 05/15	**Retainer for Signal Timing Studies Districts 61, 62 & 02, LA 19, Baker, LA:** Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads.

12/14 – 05/15	**Retainer for Signal Timing Studies Districts 61, 62 & 02, US 425, Vidalia and Ferriday, LA:** Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads.
Career History	Certified in Work Zone Traffic Control Supervisor, Technician and Flagger.

Firm employed by Neel-Schaffer, Inc.					
Name	**Jacob Thiaville, EI**			Years of relevant experience with this employer	<1
Title	Engineer Intern			Years of relevant experience with other employer(s)	<1
Degree(s) / Years / Specialization			BS / 2022 / Civil Engineering		
Active registration number / state / expiration date			EI No. 35368 / LA / 09-30-2025		
Year registered	2023	Discipline	Civil	**Has project specific experience.**	
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. Experience dates should cover the time specified in the applicable MPR(s).
09/22 - Present	**E. Milton Ave. Roundabout Widening and Corridor Improvements, Youngsville, LA:** Engineer Intern responsible for drafting and assisting with plan development for preliminary and final plans for a 1.1-mile project at intersection of Chemin Metairie Rd and E. Milton Ave. The project includes adding a 2-way left turn lane to the existing 2-lane roadway and will convert a single lane roundabout into multilane. The corridor includes subsurface drainage, restricted crossing U-turn, and raised median to prevent left turn movements. Sidewalks and drainage improvements are also included. *Engineer Intern*
11/22 - Present	**Chemin Metairie @ LA 89 Roundabout Widening, Youngsville, LA:** Engineer Intern responsible for assisting with plan development, preliminary and final plans for 1-mile project at intersection of Chemin Metairie Road and LA 89. Project will convert the existing stop control intersection to a roundabout intersection. Mr. Thiaville created roundabout geometric layout for concept drawing and has provided design support during the preliminary and final plans phase. This project converts single roundabout to multilane roundabout that is in a truck route. The corridor includes subsurface drainage, open ditches in addition to the new roundabout. */ Engineer Intern*
6/22– Present	**I-20: LA 544 Overpass Replacement, S.P. No. H.010616, Lincoln Parish, LA:** Engineer Intern responsible for supporting the final design services for this project. This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes 4 multilane roundabouts located in a tight project area with connections to ramps and service roads with adjacent businesses. Mr. Thiaville is responsible for assisting with pavement striping and signing plans, signing quantities, and review quantities. */ Engineer Intern*
6/22- Present	**H.001779 Jimmie Davis Bridge (LA 511) (HBI) Design Build:** This project will replace the existing 5 lane roadway with a 4 lane median divided roadway with turn lanes. It will provide a new bridge crossing for LA 511 at the Red River and will also modify the existing bridge crossing for use as a linear park and provide a multiuse path. Neel-Schaffer is providing the roadway drainage design, traffic analysis, signal design, striping and signing plans, road design support and Bridge H&H and Scour for the river crossing. This preliminary design is being completed in support of the Design Build Proposal document. */ Engineer Intern*
05/22- Present	**H.013751 Downtown Greenway LA Connector (BR), East Baton Rouge Parish, LA:** This project is a safe route to school project and will provide approximately 1,800 feet of sidewalk that will connect downtown Baton Rouge to local area. The project will also provide shared use lane pavement marking, new handicap curb ramps, and striping. Mr. Thiaville is responsible for drafting plan set, check ramp grades, and calculate quantities. */ Engineer Intern*.
05/22- Present	**W. Broussard Road @ Duhon Roundabout, Lafayette Parish, LA**: This project will provide a single lane Roundabout at Duhon Rd./W. Broussard Rd. intersection. This project includes curb and gutter with sidewalks. Mr. Thiaville is assisting with plan development, drafting and drainage calculations.
09/22- Present	**H.013770 LRSP Signing and Striping (Iberia), Iberia Parish, LA:** This project has 17 sites throughout Iberia parish with total length of 30 miles. This project provides safety improvements by replacement of signs that are not in compliance with current MUTCD standards, installation of new signs and enhanced pavement striping. Mr. Thiaville is responsible for assisting with developing plan set, determine sign sizes based on roadway classification and quantity calculation. */ Engineer Intern*.
Career History	Mr. Thiaville is a passionate roadway designer. Most of his course works in college geared toward transportation engineering. He graduated with a minor in Transportation Engineering. He completed two internships which provided him with experience in roadway construction and design. He has intermediate experience in Inroads and MicroStation. He has completed roundabout, intersection and sidewalk layout plans. He assisted with drainage calculations and input in HydroWin. He has completed many quantities calculations, signing quantities and some cost estimates. He also experiences in AutoCAD, AutoTURN and HydroWin.

Firm employed by Neel-Schaffer, Inc.					
Name	**Barry Brupbacher**			Years of experience with this firm/employer	16.5
Title	Senior Project Manager			Years of experience with other firm(s)/employer(s)	31
Degree(s) / Years / Specialization			BA / 1972 / Political Science; MS / 1990 / Urban Studies		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Environmental Lead		

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).
07/15 – Present	**US 90 Pearl River Bridges Environmental Assessment, St. Tammany Parish, LA and Hancock County, MS:** Work includes the preparation of an Environmental Assessment, as well as line and grade engineering for fixed and movable span bridge alternatives for the West Pearl and East Pearl Rivers and fixed span concepts for the three middle rivers. *Alternatives include placement of new bridges on the existing alignments utilizing temporary bypass structures, as well as alternatives supporting upstream and downstream bridge concepts. For the East Pearl River both concrete and steel span structures were considered.* Work also includes navigation studies and supporting environmental studies. *Project Manager*
11/15 – 12/19	**Southcity Parkway Extension, Phase 1, Robley Drive to Kaliste Saloom Road, Lafayette, LA:** Environmental Assessment developed in conformance with USCG guidance, engineering line and grade and technical environmental studies supporting the design and construction of Southcity Parkway extension from current terminus west of the Vermillion River to Kaliste Saloom Road including a crossing of the Vermillion River. *Project Manager*
07/15 – Present	**Mandeville Bypass, St. Tammany Parish, LA:** 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. The project includes roundabout geometry intersections at LA 1088 and US 190. It will also provide multiple entrances to Pelican Park, a major recreation facility serving west St. Tammany Parish. Mr. Brupbacher led the *environmental planning* for the project which includes analysis of potential wetlands and potential impacts to a Threatened and Endangered species, the Red Cockaded Woodpecker as well as the public involvement, developing traffic forecasts, providing traffic analysis and providing design services for concept routes.
01/10 – 01/11	**Route LA 3234 Stage 0 Feasibility Study, Tangipahoa Parish, LA:** 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. *Project Planner* responsible for the development of the Stage 0 Reports
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, LA:** Project supports the widening of LA 182 to four lane capacity. The Study / EA included traffic studies, environmental screening and alternative concepts for widening the 2-mile route. Multiple roundabouts are provided. *Project Manager*
05/11 – 02/13	**Environmental Assessment, Route LA 182 (North University Avenue) Widening, I-10 to West Pont des Mouton Road, Lafayette Parish, LA:** Project supports the widening of LA 182 to four lane capacity. The Study / EA included traffic studies, environmental screening and alternative concepts for widening the 2-mile route. Multiple roundabouts are provided. *Project Manager*
2000 – 2003	**I-49 South, Lafayette Regional Airport to LA 8, Lafayette, St. Martin and Iberia Parishes, LA:** Project included the development of traffic studies, line and grade studies and an EIS with ROD. The proposed action by the LADOTD involves converting approximately 12 miles of U.S. 90 in the project area to a full "Control of Access" highway meeting current interstate standards. *Project Manager*
05/07 – 10/09	**St. Martinville Bypass, Route LA 31, St. Martin Parish, LA:** 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. *Project Manager*
01/09 – 12/09	**Interstate 10 Frontage Road Feasibility Study, Lafayette, LA:** The project involved a traffic and line & grade study of I-10 for a 10-mile corridor extending from LA 93 to Louisiana Avenue in Lafayette, LA. The primary purpose of the project was to develop viable conceptual alternatives for frontage roads parallel to and/or adjacent to the I-10 corridor within the study area. *Project Planner* supporting the alternatives development.
12/14 – 12/19	**Stage 0 Feasibility Studies of Modern Roundabouts, Lafayette, LA**: Stage 0 studies supporting potential roundabouts at 23 intersections. Performed *QA/QC* of Stage 0 Reports

12/19 – Present	**US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA:** 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. Project includes signalized intersections.
Career History	Mr. Brupbacher has over 40 years of diversified planning experience performing in both public and private sector consulting. His broad range of experience includes project development, public involvement, and the preparation of NEPA documents for roadway, freight rail and transit projects, as well as passenger rail planning, transportation planning, roadway alignment studies, zoning, and land use planning. He completed NHI course No. 142005, NEPA and Transportation Decision-making and NTI Course, Managing the Environmental Process. He is pre-certified by TxDOT in Policy Planning, Systems Planning, Subarea/Corridor Planning, Land Planning/Engineering, Section. 4(F)/6(F) Evaluations, Socio-Economic and Environmental Justice Analyses and Environmental Document Preparation.

Firm employed by Neel-Schaffer, Inc.					
Name	**Glenn Ledet, PE**			Years of experience with this firm/employer	3.5
Title	Vice President, Water Resources Program Manager			Years of experience with other firm(s)/employer(s)	13.5
Degree(s) / Years / Specialization			BS / 2007 / Environmental Engineering		
Active registration number / state / expiration date			PE No. 37177 / LA / 09-30-2024		
Year registered	2012	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge H&H / Scour / Task Manager		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/20 – Present	**SCDOT Scour Analysis Program, Statewide, SC:** Senior QA/QC Engineer and Deputy Project Manager on the SC DOT Scour Analysis Program for Neel-Schaffer. Project responsibilities included Scheduling, Quality Control and Management of all bridge site visits, field work reporting, and scour analysis review.
08/20-11/20	**ARDOT 030412: Bridge Replacements Along SR 70, Bridge Hydraulics and Scour Analysis, Sevier County, AR:** H&H Project Manager for hydraulic analysis for the primary structures as well as the supporting roadside drainage. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at three sites along SR 70 near the Oklahoma state line.
12/20 – 04/21	**ARDOT 040780: Bridge Replacements Along SR 186, Bridge Hydraulics and Scour Analysis, Franklin County, AR:** H&H Project Manager for hydraulic analysis for the primary structures as well as the supporting roadside drainage. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 186 near Altus in Franklin County.
10/20-03/21	**ARDOT 040788: Bridge Replacements Along SR 64, Bridge Hydraulics and Scour Analysis, Crawford County, AR:** H&H Project Manager for hydraulic analysis for the primary structures as well as the supporting roadside drainage. NSI was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 64 near Mulberry in Crawford County.
03/21 – 09/21	**ARDOT 061614: Bridge Replacements Along SR 86, Bridge Hydraulics and Scour Analysis, Prairie County, AR:** H&H Project Manager for hydraulic analysis for the primary structures as well as the supporting roadside drainage. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 86 near SR 38 in Prairie County.
05/20 – 11/20	**ARDOT 101054: Bridge Replacements Along SR 230, Bridge Hydraulics and Scour Analysis, Lawrence and Craighead Counties, AR:** H&H Project Manager for hydraulic analysis for the primary structures as well as the supporting roadside drainage. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans, hydraulic analysis and a geotechnical report for this project that includes the replacement of hydraulic structures at 10 sites along SR 230 between Alicia and Bono in Lawrence and Craighead counties.
6/22- Present	**H.001779 Jimmie Davis Bridge (LA 511) (HBI) Design Build:** H&H Manager. This project will replace the existing 5 lane roadway with a 4 lane median divided roadway with turn lanes. It will provide a new bridge crossing for LA 511 at the Red River and will also modify the existing bridge crossing for use as a linear park and provide a multiuse path. NSI is providing the roadway drainage design, traffic analysis, signal design, striping and signing plans, road design support and Bridge H&H and Scour for the river crossing. This preliminary design is being completed in support of the Design Build Proposal document.
09/22 – Present	**TXDOT, 5067-WA1 WAC Bridge Replacement Projects, Bridge Hydraulics and Scour Analysis, Waco District, TX:** H&H Project Manager for hydraulic analysis for the primary structures as well as the supporting roadside drainage. Providing QA/QC support for hydraulic analysis and scour design.
Career History	Glenn joined Neel-Schaffer in 2019 and serves as Vice President, Water Resources Program Manager. He has 17 years of experience and provides technical analysis, engineering design, project and program management support and construction admin support on a variety of civil, environmental, and coastal projects. His professional experience includes water quality analysis, wetland surveying, vegetation surveying, wetland mitigation, flood control, navigation evaluations, coastal port design, dredging, beach nourishment, marsh creation, coastal structure design, and ecosystem restoration projects. He also has over eight years of experience in hydraulic and hydrologic modeling and analysis on riverine and coastal projects. He also has experience on FEMA projects including cost-benefit analysis for Hazard Mitigation Grant Program applications, site evaluations for flood damages, scope development, and funding for repair and reconstruction of flood-damaged drainage systems. Glenn is responsible for regional and corporate business development and project

	implementation of Coastal and Water Resources initiatives. Projects he works on include Coastal Engineering, the design and implementation of habitat restoration, marsh creation, shoreline protection, hydrologic restoration, and flood protection in Coastal Louisiana and other Gulf Coast states, from Texas to Florida to the Carolinas.

Firm employed by Neel-Schaffer, Inc.					
Name	**Mike Phillips, PE, CFM**			Years of experience with this firm/employer	22
Title	Hydrology & Hydraulics Engineer			Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			BS / 2000 / Civil Engineering and Water Resources		
Active registration number / state / expiration date			PE No. 34600 / LA / 09-30-2023		
Year registered	2009	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge H&H / Scour		

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).
01/09 – 09/10	**Tag Along Creek Drainage Analysis, St. Tammany Parish, LA:** Project Engineer responsible for performing an unsteady flow (EPA-SWMM 5) model of Tag Along Creek, a tributary to Bayou Lacombe, for the purpose of determining causes of **residential and street flooding** along Cloverland Drive and developing multiple alternatives to mitigate the flooding.
09/13 - 10/15	**Baldwin Beach Express, Baldwin County, AL:** Project engineer for hydraulic analysis and design of **three dual bridge structures** for a multi-lane divided highway connecting I-10 and I-65 on the east side of Baldwin County. Structures included a **1,032-foot bridge, a 631-foot bridge and a 178-foot bridge.**
05/03 – 08/04	**Hydraulic Analyses of Multiple Bridge Replacements, West Tennessee:** Performed hydraulic analyses/designs of **multiple** new highway **bridges/replacements and box culverts**. HEC-RAS was used to model the existing and proposed bridges, and HEC-18 methodology was used to perform scour analyses.
06/09 – 08/10	**South Central Drainage Master Plan, St. Tammany Parish, LA:** Project Engineer responsible for performing detailed watershed analyses and hydrologic models for Bayou Lacombe and Bayou Castine watersheds north of I-12 (60 sq. mi. area). Conceptual engineering design was performed for seven proposed regional detention ponds, and utilization of an existing 60-acre borrow pit lake, to provide regional detention to accommodate future short-term (5-10 year) and long-term (10-20 year) development scenarios, while meeting Parish design requirements for future buildout within areas expected to experience significant growth. Detailed reports and cost estimates were prepared.
04/04 - 01/05	**Hydraulic Analysis of Rye Road Bridge Over Manatee River, Manatee County, FL:** Performed **hydraulic and scour analysis** of existing and proposed highway bridge. HEC-RAS was used to model existing and proposed bridges, and HEC-18/HEC-23 procedures were used to perform scour analysis and design scour countermeasures. Because the bridge was located in a **FEMA Special Flood Hazard Area**, the proposed bridge was designed to meet **No-Rise** criteria.
04/16 - 12/19	**GDOT FY16 Design-Build Bridges, Batch 4 and 5, South Georgia:** Performed **hydraulic/scour analyses**, designs, and H&H reports for **multiple off-system bridge replacements** using a Design-Build delivery method. Detailed hydraulic models were developed with HEC-RAS, **scour analyses** were conducted using HEC-18, and scour countermeasures were designed using HEC-23 procedures.
10/20 - Present	**SCDOT Scour Critical Assessment and Management Program, Statewide, SC:** Senior Project Manager. Neel-Schaffer was selected to perform Bridge Scour Inspections, develop Scour Calculations/Reports, and develop Plans of Action for bridges throughout the state of South Carolina. Mr. Phillips was part of NSI field crew, consisting of hydraulic engineers from our Columbia (SC), Atlanta (GA), and Nashville (TN) offices, who performed Bridge Scour Inspections across the state for **over 250 bridges**. Mr. Phillips is responsible for coordinating with 25 hydraulic and structural engineers across the company to provide Scour Calculations/Reports and Plans of Action for over 250 bridge sites, along with being the client point of contact.
04/21 – Present	**City of Mandeville Wetlands Restoration, Mandeville, LA:** Lead Hydraulic Engineer responsible for hydrologic and hydraulic modeling. Existing canals south of Galvez Street and east of Massena Street were modeled and alternatives were developed to divert canal flows via a complex weir structure through the proposed cypress wetlands at various storm levels. Multiple options for horizontal alignment and cross-sectional geometry of proposed channels through the wetlands were designed, as well as a public walking trail through the wetland area. Hydraulic designs were provided for two pedestrian **bridges** over the main canals connecting to Lake Pontchartrain.
01/17 - Present	**City of Hendersonville (TN) Drakes Creek Road Improvements - From Stop Thirty Road to SR 386:** Project Engineer. Hydrologic and hydraulic analysis of the **existing and proposed bridge crossing** at Drakes Creek. USGS Regression Equations were used to compute the design discharges, and HEC-RAS software

	was used to analyze the existing (undersized) bridge and proposed three-span bridge. A floodplain and floodway model was developed, which was submitted to FEMA in support of a Conditional Letter of Map Revision application.
06/16 – 07/17	**Billie Road Improvements, Seminole Tribe, Glades County, FL:** Stormwater Engineer. Provided stormwater services for the design and permitting assistance of roadway and drainage improvements for 1.3 miles of roadway at the Seminole Brighton Reservation in Glades County. The project location is in close proximity to Lake Okeechobee and experiences seasonal flooding for periods of time throughout the year making access to homes and businesses difficult and dangerous. Roadways and properties in the area flood when the interconnected wetlands fill up and overflow. For this reason, off-site drainage analysis using ICPR stormwater modeling software was performed to model the drainage characteristics of the project area. This information was used to establish the base flood elevation for finished road grade design and improvements to the drainage system to improve access for residents and control the effects of seasonal flooding. This project required coordination with the Corps of Engineers, South Florida Water Management District and the Seminole Tribe of Florida Public Works.
03/01 – 05/02	**Arkansas River Navigation Study, Little Rock, AR:** Project Engineer responsible for developing backwater profiles for current operating conditions of eight sections/pools of the Arkansas River for the USACE Little Rock District. The client requested conversion of previously produced LRD-1 (Little Rock District Backwater Program) models to HEC-RAS format and updating with channel and bridge survey data. Raw LiDAR (Light Detection and Ranging) data was provided by the district. LiDAR data was processed/filtered and converted to digital elevation models (DEMs) for each pool studied using ArcGIS software. These DEMs were used to generate additional cross sections at critical bends in the river to supplement the survey data and refine the models. Models were calibrated to match published tail water rating curves within specified confidence limits. GIS shapefiles of flood inundation areas were generated for multiple frequency floods. The floodplain shapefiles were overlaid on digital USGS quad maps and aerial photos to verify accuracy. These shapefiles were accepted and utilized by the Little Rock District for planning purposes.
06/03 – 05/19	**TDOT Continuing Drainage Services Contract, Statewide, TN:** Project Engineer responsible for performing drainage complaint inspections, detailed hydrologic and hydraulic modeling/analyses, topographic surveys, technical reports, construction cost estimates, and construction plans for multiple complex drainage problem sites across the State.
06/14 – Present	**GDOT On-Call Services for Special Drainage Studies, Statewide, GA:** Project Engineer. Responsible for performing detailed hydraulic and hydrologic analysis and design to solve complex drainage/flooding problems along the Department's roadways. Services included site reconnaissance, agency coordination, coordination of topographic surveys, hydrologic and hydraulic modeling, recommendation of infrastructure improvements, presentation of final reports to the Department, and development of construction plans. Proposed solutions to drainage/flooding problems included addition of custom-designed bridge deck drains, new storm sewer systems with inlets, flow diversions, ditch improvements, and modifications to existing storm sewer systems along interstates and state routes.
05/15 – 08/16	**GDOT I-285 and SR 400 Reconstruction, SR 400 CD Lanes Project, Fulton County, GA:** Drainage Design Manager for the widening and reconstruction of mainline SR 400, Collector Distributor Lanes, and interchange with Abernathy Road. StormCAD was used for storm sewer design, FHWA's HY-8 for minor cross drain design, HEC-RAS for bridge class culvert analysis/design within FEMA flood zones, and PondPack was used for runoff/detention analysis/design.
Career History	Mike has extensive experience performing complex and large-scale hydrologic & hydraulic modeling and scour analysis for bridges, box culverts, and flood control infrastructure improvement designs for federal, state, municipal, and private clients. He has completed these services for multiple states including LADOTD. He has managed and performed on-call contracts consisting of complex analyses for DOTs in Alabama, Georgia, and Tennessee, and the US Army Corps of Engineers Mike has performed numerous high-profile FEMA Flood Insurance Study Updates and Map Revisions for municipalities and private clients. He is very familiar with FEMA National Flood Insurance Program Regulations; and he is an ASFPM Certified Floodplain Manager. Mike is proficient in the latest hydrologic & hydraulic computer models, including GIS-based applications for hydraulics & hydrology (steady and unsteady, 1D and 2D flow).

Firm employed by Neel-Schaffer, Inc.					
Name	**Leah Selcer, PE**			Years of experience with this firm/employer	3
Title	Project Engineer			Years of experience with other firm(s)/employer(s)	6
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering		
Active registration number / state / expiration date			PE No. 43492 / LA / 09-30-2023		
Year registered	2019	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge H&H / Scour / Roadway Drainage		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
05/20 – 11/20	**ARDOT 101054: Bridge Replacements Along SR 230, Lawrence and Craighead Counties, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans, hydraulic analysis and a geotechnical report for this project that includes the replacement of hydraulic structures at 10 sites along SR 230 between Alicia and Bono in Lawrence and Craighead counties. Ms. Selcer prepared a Hydrologic and Hydraulic Analysis for the roadway drainage structures associated with the project.
03/21 – 09/21	**ARDOT 061614: Bridge Replacements Along SR 86, Prairie County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 86 near SR 38 in Prairie County. Ms. Selcer prepared a Hydrologic and Hydraulic Analysis for the roadway drainage structures associated with the project.
10/20 – 03/21	**ARDOT 040788: Bridge Replacements Along SR 64, Crawford County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 64 near Mulberry in Crawford County. Ms. Selcer prepared a Hydrologic and Hydraulic Analysis for the roadway drainage structures associated with the project.
12/20 – 04/21	**ARDOT 040780: Bridge Replacements Along SR 186, Franklin County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 186 near Altus in Franklin County. Ms. Selcer prepared a Hydrologic and Hydraulic Analysis for the roadway drainage structures associated with the project.
08/20 – 11/20	**ARDOT 030412: Bridge Replacements Along SR 70, Sevier County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at three sites along SR 70 near the Oklahoma state line. Ms. Selcer prepared a Hydrologic and Hydraulic Analysis for the roadway drainage structures associated with the project.
6/22 – Present	**H.001779 Jimmie Davis Bridge (LA 511) (HBI) Design Build:** Drainage Design. This project will replace the existing 5 lane roadway with a 4 lane median divided roadway with turn lanes. It will provide a new bridge crossing for LA 511 at the Red River and will also modify the existing bridge crossing for use as a linear park and provide a multiuse path. Neel-Schaffer is providing the roadway drainage design, traffic analysis, signal design, striping and signing plans, road design support and Bridge H&H and Scour for the river crossing. This preliminary design is being completed in support of the Design Build Proposal document.
06/20 – 10/20	US 71 (Barksdale Blvd.) Streetscape Improvements Project, Bossier City, LA: Engineer for civil design features associated with Phase II of this street lighting project, including preparing of stormwater pollution prevention plans.
5/21 – 10/21	LA Hwy 71 (Barksdale Blvd.) Highway Lighting Project, Bossier City, LA: Engineer for streetscape improvements project in Bossier City, LA. Tasks included sidewalk design and plan preparation, utility conflict identification, and drainage design.
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade).
06/20 – Present	**I-10/12 College Drive Flyover Design Build, Baton Rouge, LA:** NSI is performing a traffic study at the I-10/12 merge in an effort to improve capacity and safety. Ms. Selcer assisted with drainage engineering.

Career History	Leah joined NSI's Baton Rouge office in 2020. She has a broad range of project engineering and management experience, providing design, planning, and budgeting services for multiple projects. She is also experienced in preparing permits, plans and specifications, design calculations, reports, and presentations for a variety of civil engineering projects. She has assisted in the engineering and design of several complex civil, coastal and water resources projects for coastal ports, parish governments, LADOTD, CPRA, as well as private developers.

Firm employed by Neel-Schaffer, Inc.					
Name	**Steve Hazen, PE**			Years of experience with this firm/employer	14
Title	Senior Engineer			Years of experience with other firm(s)/employer(s)	34
Degree(s) / Years / Specialization			BS / 1974 / Civil Engineering		
Active registration number / state / expiration date			PE No. 18087 / LA / 03-31-2025		
Year registered	1979	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge H&H/Scour		

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).
02/22 – Present	**W. Broussard Roundabout at Duhon Rd. (LA 724):** This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade).
09/18 – 12/18	**I-220 / I-20 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. Preliminary design was in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
02/10 – 10/11	**Off System Highway Bridge Program; Sparks Davis Rd 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. Inspection and design were in accordance with LA Standard Specifications for Roads and Bridges as well as LADOTD Bridge Design Manuals.
02/10 – 02/11	**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. Design was in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
02/10 – 06/10	**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 span concrete bridge. Recommendation was 4 reinforced box culverts. Inspection and design were in accordance with LA Standard Specifications for Roads and Bridges as well as LADOTD Bridge Design Manuals.
11/06 – 12/09	**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. Inspection and design were in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
06/06 – 01/08	**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 2 reinforced concrete pipe culverts based on hydraulic and economic analysis. Inspection and design proposals were in accordance with LA Standard Specifications for Roads and Bridges as well as LADOTD Bridge Design Manuals.
01/04 – 09/05	**US 167 - Jackson Parish; Quitman, Lincoln Parish, LA:** *Project Engineer* responsible for improvements including widening existing 2-lane roadway to a 4-lane roadway with grassed median, performed hydraulic analysis of existing structures and prepared improvements to same and hydraulic design of slab span bridges and culverts for project. Use of HEC-RAS and LADOTD Hydraulics Programs as well as Louisiana Standard Specifications for Roads and Bridges as well as Louisiana DOTD Bridge Design Manuals.
04/02 – 12/04	**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 and estimated construction costs. Inspection, review, and design was in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.

1998 – 1999	**La 3032 for LADOTD:** *Project Engineer* responsible for new bridge approach structure for existing LA 3032 main span bridge over Red River. Evaluated existing structure for possible continued use. There were concerns about existing bridge deck as well as the silicon steel beams in the approach spans. Inspection and review were in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
02/96 – 03/97	**Clyde E. Fant Memorial Parkway – Northern Extension Phase IIIA/IIIB Bridge over Cross Bayou, Shreveport, LA:** *Project Engineer*. Design of bridge structures for 632 ft., 4-lane plus median structure across Cross Bayou and a 300 ft., 4-lane grade separation bridge with horizontal and vertical curve. Design utilized both the LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
06/89 – 08/90	**Off-System Highway Bridge Program:** *Project Engineer*. Hydraulic design for Off-System bridge replacements utilizing HEC-1 analysis of existing bridge openings of bridges in Webster Parish. Project design was in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
1989 – 1990	**LA 1 highway bridge over Twelve Mile Bayou; Shreveport, LA:** *Project Engineer* responsible for bridge inspection and evaluation to estimate the extent to which the existing bridge required repair or replacement. Responsible for Preliminary plans for rehabilitation of existing structure. The replacement bridge was widened to include taper to approach ramps to I-220 just the north of Twelve Mile Bayou. Inspection and Preliminary design were in accordance with LA Standard Specifications for Roads and Bridges as well as LADOTD Bridge Design Manuals.
1988 – 1989	**I-49, Urban Section 5: LADOTD Bridge Design, Shreveport, LA:** *Project Engineer* responsible for the design of elevated sections of I-49 roadway as a part of interchange with Inner Loop Expressway. Design was in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
01/87 – 01/89	**US 371 / US 84 Bridge over Red River at Coushatta, LA:** *Project Engineer* responsible for design of steel cross frames and lateral bracing for non-redundant steel plate girders, concrete approach piers designed to withstand barge impacts and voided concrete slab approach span design. Pier design included steel H-pile designed for barge impact and design of concrete tremie seals. Other work included detailing of miscellaneous steel items, quality control of drawings and review of shop drawings. Two designs were provided for the bridge: one being a concrete segmental bridge and the other a steel plate girder bridge. The 2 column approach bents were connected with concrete walls. The project was designed using both the LA Standard Specifications for Roads and Bridges as well as LADOTD Bridge Design Manuals.
01/83 – 12/85	**Boyce-Shreveport Highway; LA 490 to LA 119; Natchitoches Parish, I-49 Section 4:** *Project Engineer*. Assisted in the design of bridge structures at 3 grade separations and several stream crossing bridge structures for 3 rural segments of I-49. Design was in accordance with LA Standard Specifications for Roads and Bridges as well as LA DOTD Bridge Design Manuals.
Career History	Mr. Hazen joined Neel-Schaffer in 2008 following many years with Demopulos & Ferguson Associates, Inc. Mr. Hazen has worked as a Structural, Hydraulics and Soils Engineer with a primary focus on highway and railway bridges, structural design for buildings, facilities, hydrological analysis and drainage design for projects.

Firm employed by Neel-Schaffer, Inc.					
Name	**Kyle Grantham, PE, CFM**			Years of relevant experience with this employer	7.5
Title	Water Resource Engineer			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			BS / 2013 / Civil Engineering		
Active registration number / state / expiration date			PE No. 31787 / MS / 12-31-2023		
Year registered	2019	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Bridge H&H / Scour		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
08/20 – Present	**South Carolina Department of Transportation Scour Assessment, Beaufort County, MS:** Project Engineer. Performed scour assessments utilizing USGS bridge-scour envelope curves methods and FHWA HEC-18. SRH-2d models were utilized.
02/20 – 06/20	**MDOT Scour Evaluation Project, Harrison County, MS:** Project Engineer. I-110 over Biloxi Back Bay. Responsible for QAQC of modeling efforts for the Phase 2 design. Software used: Arcmap 10.4, SRH-2D.
06/20 – 11/20	**Lee County (MS) Scour Evaluation for MDOT:** Project Engineer. Lee County-I-22- Responsible for the design and analysis used to make a recommendation regarding scour at Bridges 87.6A and 87.6B over Town Creek. Responsible with QAQC of Hydraulic Model, Calculating Hydrology, and developing Phase 1 and Phase 2 reports. A multiple opening design using SRH-2D was used for this analysis.
06/20 – 11/20	**Harrison County (MS) Scour Evaluation for MDOT:** Project Engineer. Responsible for the design and analysis used to make a recommendation regarding scour at Bridges 43.8A&B over Parker Bayou and 45.0A&B over Tchoutacabouffa River, QAQC of Hydraulic Model, and developing Phase 1 and Phase 2 reports. A multiple opening design using SRH-2D was used for this analysis.
08/20-11/20	**ARDOT 030412: Bridge Replacements Along SR 70, Sevier County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at three sites along SR 70 near the Oklahoma state line. Mr. Grantham designed the roadway hydrology and two large box culverts in HEC-RAS. Hydraulic Toolbox 5.0, ArcMap 10.8, and HEC-RAS 5.0.7 were used for this H&H analysis.
03/21 – 09/21	**ARDOT 061614: Bridge Replacements Along SR 86, Prairie County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 86 near SR 38 in Prairie County. Mr. Grantham is currently involved in the roadway H&H design. Hydraulic Toolbox 5.0 and ArcMap 10.8 are currently being utilized for this design.
10/20-03/21	**ARDOT 040788: Bridge Replacements Along SR 64, Crawford County, AR:** Engineer for H&H Design. Neel-Schaffer was selected to develop and provide final roadway plans, final bridge plans and a hydraulic analysis for this project that includes the replacement of hydraulic structures at two sites along SR 64 near Mulberry in Crawford County. Mr. Grantham designed the roadway hydrology. Hydraulic Toolbox 5.0 and ArcMap 10.8 were used for this design.
02/17 – 01/18	**Chickasaw County (MS) Bridge Replacement:** Project Engineer. Chickasaw County-SR 245-MDOT project 103352. Responsible for the design and analysis used to determine a hydraulic bridge recommendation. A multiple opening design using SRH-2D was used to recommend and replace four bridges along the same floodplain for Tallabinnela Creek. Software used: Bentley MicroStation, Google Earth, SMS.
03/17 – 01/18	**Lee County Bridge Replacement for MDOT:** Project Engineer. Lee County-SR 245- MDOT Project 102426. Responsible for the design and analysis used to determine a hydraulic bridge recommendation. A multiple opening design using SRH-2D was used to recommend and replace two bridges along the same floodplain for Old Chiwapa Creek.
07/15 – 01/18	**Tallahatchie County (MS) Bridge Replacement for MDOT:** Project Engineer. Tallahatchie County-SR 49- MDOT Project 105344. Responsible for the design and analysis used to determine a hydraulic bridge recommendation. A single bridge replacement using HEC-RAS 4.1 and WMS 10.0 were used for a proposed bridge recommendation.
03/16 – 10/17	**Tishomingo County (MS) Bridge Replacement for MDOT:** Project Engineer. Tishomingo County-SR 172- MDOT Project # 106092. Responsible for the

	design and analysis for a hydraulic bridge recommendation. Two bridge replacements were designed using HEC-RAS 4.1 and WMS 10.0 on separate floodplains for Yellow Creek and Ellington Creek along SR 172.
02/17 – 01/18	**Calhoun County (MS) Bridge Replacement:** QA/QC Manager for the submittal of the conceptual phase. Calhoun County-SR 9-MDOT Project 106984. Responsible for the review and approval of the SRH-2D modeling. The project was a bridge replacement project modeled using SRH-2D for three different bridges along the Yalobusha River floodplain.
06/17 – 01/18	**Perry County (MS) Bridge Replacement:** QA/QC Manager for the submittal of the conceptual and preliminary phase. Perry County-SR 42-MDOT project 107008. Responsible for the review and approval of the SRH-2D modeling. The project was a single bridge replacement project modeled using SRH-2D along the Tallahalla Creek floodplain.
07/15 – 01/18	**MDOT Bridge Replacement Roadway Drainage Design:** Project Engineer. Design for these projects were achieved by the most effective and economical methods. This included culvert design, sizing ditches, silt-basins, hydrology, and stream stability.
08/18 – 05/20	**MDOT SR 442 Bridge Replacement Leflore County, MS:** Project Engineer. Responsible for the QA/QC of the conceptual, preliminary, and final hydraulic design. A multiple opening design using SRH-2D was used to recommend and replace five bridges along the same floodplain. ArcMap 10.2.2, HEC-RAS 5.0.3., SMS 12.3- SRH-2D, Bentley MicroStation.
02/18 – 10/28	**SR 178 Bridge Replacement, Union County, MS:** Project Engineer. Responsible for the conceptual, preliminary, and final hydraulic design for East Branch Lockes Creek crossing along SR 178. The site consists of a single bridge replacement with a railroad bridge 75 feet upstream of the crossing. The crossing was modeled in SRH-2D and HEC-RAS to determine the best recommendation moving forward. Software used: ArcMap 10.2.2, HEC-RAS 5.0.3., SMS 12.3- SRH-2D, Bentley MicroStation.
10/17 – 01/18	**Hinds County (MS) Big Black River Bridge Replacement for MDOT:** Project Engineer. Hinds County-SR 27- MDOT Project 107391. Responsible for the design and analysis used to determine a hydraulic bridge recommendation. A multiple opening design using SRH-2D was used to recommend and replace a single bridge replacement over the Big Black River.
06/22 – Present	**Phase I-II Scour Evaluation of US 84 at Tallahala Creek and Relief - Br. Nos. 151.5 and 151.7; SR 15 at Tallahala Creek and Relief – Br. Nos. 80.1 and 80.4 (Jones County) and Phase I-II Scour Evaluation of I-22 at Pechahalee Creek – Br. Nos. 46.9A and 46.9B; I-22 at Oaklimeter Creek – Br. Nos. 49.2A and 49.2B (Benton County):** Project Engineer / Team Lead. Responsible for the QA/QC and scour analysis design using SRH-2D to evaluate bridge scour for a total of 8 bridges. Currently in the scour design process.
10/22 – Present	**SR 172 Bridge Replacement, Tishomingo County, MS: Current: Project Engineer / Team Lead.** Responsible for the QA/QC of the conceptual design using SRH-2D to replace a single bridge crossing and calculate bridge scour. Currently in the design process.
Career History	Mr. Grantham joined Neel-Schaffer in 2020 and has ten years of experience as a Water Resources Engineer, including three with the Mississippi Department of Transportation. Based in our Southaven (MS) office, Kyle is skilled in all aspects of Hydrology and Hydraulic Engineering design. He is a licensed Professional Engineer and a Certified Floodplain Manager.
Certifications and Training	Certified Floodplain Manager - ASFPM - US-16-08958 FHWA-NHI-135046-Stream Stability and Scour at Highway Bridges FHWA-NHI-135090-Hydraulic Design of Safe Bridges FHWA-NHI-135095-Two-Dimensional Hydraulic Modeling of Rivers at Highway Encroachments FHWA-NHI-135041-One-dimensional Modeling of Rivers at Highway Encroachments with HEC-RAS FHWA-NHI-135095A- SRH-2D Model Data Files, Diagnostics & Verifying 2d Model Pilot Course FHWA-NHI-135056- Culvert Design FHWA-NHI-135027- Urban Drainage Design FHWA-NHI-135048 – Countermeasure Design for Bridge Scour and Stream Stability

Firm employed by	**Terracon Consultants, Inc.**			
Name	**Lynne Roussel, P.E.**		*Years of relevant experience with this employer*	18
Title	Principal | Senior Geotechnical Engineer		*Years of relevant experience with other employer(s)*	0
Degree(s) / Years / Specialization			Master of Science/ Geotechnical Engineering/ Louisiana State University/ 2005 Bachelor of Science/ Civil Engineering/ Louisiana State University/ 2003	
Active registration number / state / expiration date			Professional Engineer / Louisiana / March 31, 2024	
Year registered	2009	*Discipline*	Professional Engineer (Civil)	
Contract role(s) / brief description of responsibilities			Geotechnical Senior Reviewer	

Experience dates	*Experience and qualifications relevant to the proposed contract.*
Lynne has managed geotechnical projects for 18 years. She has also managed several Geotechnical ID/IQ contracts for DOTD. She has performed engineering analyses using in-house computer resources and commercial software for settlement analysis, deep foundations analysis, pavement design, slope stability analysis, and lateral loading of deep foundations. She also performed analyses for the USACE for limiting pressure analyses for Horizontal Directional Drilling (HDD) projects, seepage analyses, and Method of Planes slope stability. Her software experience includes PCSTABL6, GEOSLOPE, LPILE, DRIVEN, SHAFT, Shoring Suite, and APILE.	
07/21 – 12/21	**H.003931 I-10 Lake Charles, Lake Charles, LA.** *DOTD* **Project Reviewer.** Performed quality reviews on engineering analyses and reporting.
12/1/20 - Ongoing	**IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA.** *DOTD* **Contract Manager and Project Reviewer.** Managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is $2.5 Million.
07/16 – 07/21	**Louisiana Department of Transportation Geotechnical Retainer Contract No. 4400006191, LA.** *DOTD* **Contract Manager and Project Reviewer.** Managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is $4 Million.
05/18 – 02/22	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA.** *DOTD* **Project Manager.** Oversaw the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment.
05/18 – 11/20	**H.005967: Nelson Road Extension and Bridge, Lake Charles, LA.** *DOTD* **Project Manager.** Managed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration, including water borings in Contraband Bayou, and provided 90% design of the substructure for the bridge over Contraband Bayou. Terracon performed a settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from the impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility.
06/19 – 3/20	**H.004100 I-10 Widening, Baton Rouge, LA.** *DOTD* **Senior Engineer.** Supervised the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. The team worked safely around traffic and lane closures on the interstate near College Drive.
04/19 – 09/20	**Sarasota Drive Bridge, Baton Rouge, LA.** *GEC* **Project Manager.** Managed the geotechnical exploration project, which included the advancement of two test borings to approximately 100 feet below existing site grades. Pile capacities were developed for the bridge bents.
10/18-01/19	**H.000133 US 80 Overpass at KCS RR. Simsboro, LA.** *DOTD* **Project Manager.** Managed the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines.

07/18 – 12/18	**H.009481 LA 20 Bayou Chevreuil Bridge, St. James Parish, LA. DOTD** Project Manager in the subsurface evaluation and lab testing.
10/16 – 01/18	**H.002238 Robinson Canal Bridge, Terrebonne Parish, LA.** *DOTD* **Project Manager.** Provided geotechnical engineering services for the project, including field exploration, laboratory testing, and geotechnical engineering for the bridge. Pile capacities were developed for the bridge bents.
01/12 – 01/13	**H.009187.5, 23rd Street Bridge over Canal No. 17, Jefferson Parish, LA.** *DOTD* **Project Engineer.** Provided geotechnical engineering for the subsurface evaluation and engineering design of this DOTD Off-System Bridge project. The bridge at 23rd Street over Canal No. 17 was replaced. DOTD boring logs and LRFD Pile Calculations were provided to the design engineer.
01/10 – 03/12	**H.0051.21, LA-1 to I-10 Connector, Port Allen, LA.** *DOTD* **Project Manager.** Managed the design of a new connector between LA 1 and I-10 near the Intracoastal Canal in West Baton Rouge Parish, Louisiana. The project consisted of a bridge over the Intracoastal Canal, a flyover connector to LA 1, and associated roadway. Soil borings and Cone Penetrometer Test (CPT) probes associated with the bridges and roadway were completed. All calculations were consistent with DOTD pavement design standards. Settlement analysis was performed for the approach embankments. Pile capacities were also provided for the elevated structure.
2011	**713-64-0108/H.006372, Carter Crossing over Dugdemona River, Winn Parish, LA.** *DOTD* **Project Manager.** Performed the subsurface evaluation and engineering design of this DOTD Off-System Bridge project. The bridge at Carter Crossing over Dugdemona River was replaced. DOTD boring logs and LRFD Pile Calculations were provided to the design engineer.
09/08 – 11/08	**Interstate 12 Widening, East Baton Rouge and Livingston Parishes, LA.** *DOTD* **Project Manager.** Managed the interstate highway improvement. Terracon performed drilling and laboratory activities for the project. The project consisted of widening Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. The project needed to be performed under a compressed time schedule of 30 days for DOTD to release a Design-Build procurement package. She oversaw the Terracon team to ensure the schedule was met by using multiple drill rigs to complete the fieldwork. The work completed by Terracon received high marks from the design-build team.
12/05– 07/12	**Louisiana DOTD Off-System Bridge Program, Statewide in LA.** *DOTD* **Project Manager.** Managed multiple off-system bridge projects. Terracon provided geotechnical drilling, laboratory testing, and engineering support for several bridges designated for replacement under the Louisiana Department of Transportation and Development Off-System Bridge Program. For each bridge, Terracon served as a sub-consultant for a civil engineering firm selected by Louisiana DOTD to design the new bridge. In each case, the project civil engineer provided all additional engineering and land surveying required to perform topographic surveys and hydraulic studies and prepared the preliminary and final roadway and bridge plans. Terracon completed geotechnical investigations for bridges throughout Louisiana and in various geologic settings.

Firm employed by	**Terracon Consultants, Inc.**		
Name	**Steve Greaber, P.E.**	*Years of relevant experience with this employer*	22
Title	Principal | Senior Geotechnical Engineer	*Years of relevant experience with other employer(s)*	11
Degree(s) / Years / Specialization	Bachelor of Science/ Civil Engineering/ University of Texas at El Paso/ 1989		
Active registration number / state / expiration date	Professional Engineer 26107 / Louisiana / September 30, 2023		
Year registered	1995 (LA) *Discipline*	Professional Engineer (Civil)	
Contract role(s) / brief description of responsibilities	Senior Geotechnical Engineer		

Experience dates	*Experience and qualifications relevant to the proposed contract.*
Steve has 33 years of experience working on a wide range of geotechnical projects. He has worked extensively on City-Parish projects as well as for commercial, industrial, transportation, and institutional clients. He is well versed in all aspects of geotechnical engineering and materials quality aspects of construction, including earthwork, concrete, masonry, asphalt, and structural steel. Steve has extensive experience in deep foundation analysis, implementation/interpretation of load testing, site modification, and improvement techniques, including but not limited to dynamic compaction, geotextile reinforced slopes, and wick drains for improvement of consolidation.	
07/18 – 10/21	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA.** *DOTD* **Lead Design Engineer** for the subsurface evaluation and geotechnical engineering design for the US 90 (I-49 South) Design Build Project. Terracon provided the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors to accommodate slight variations in nominal capacity obtained at each bent.
05/18 – 01/21	**H.005967: Nelson Road Extension and Bridge, Lake Charles, LA.** *DOTD* **Senior Geotechnical Engineer.** Reviewed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration that included water borings in Contraband Bayou and has provided 90% design of the substructure for the bridge over Contraband Bayou and performed settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility.
06/17 – 10/18	**H.010006: Bayou Petit Caillou Bridge Improvements, Chauvin, LA.** *DOTD* **Senior Geotechnical Engineer.** Provided senior review the subsurface evaluation and substructure design for upgrades to the existing bridge. The services were performed for Huval and Associates through their Bridge Preservation Contract and included providing pile recommendations for support of a new bridge lift operators building and supports for traffic barriers and fender replacements.
02/14 – 02/17	**H.010620: US 90 (I-49 South) Design Build, Lafayette Parish, LA.** *C.H. Fenstermaker* **Senior Geotechnical Engineer.** Provided senior review for the subsurface evaluation and geotechnical engineering design for the US 90 (I-49 South) Design Build Project. Terracon provided the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors to accommodate slight variations in nominal capacity obtained at each bent.

01/15 – 02/16	**H.010719: US 90 Ramp Improvement, Orleans Parish, LA.** *DOTD* **Senior Geotechnical Engineer.** Provided senior review of the subsurface evaluation and substructure design of this new bridge and ramp improvement project at US 90 and South Claiborne Ave. The entrance ramp to US 90 was elevated to improve traffic flow. DOTD boring logs and LRFD Pile Resistance Calculations were provided to the design engineer.
2010 - 2013	**SP No. 450-10-0159 - Interstate 10 Widening, Siegen to Highland - Baton Rouge, LA.** *DOTD* **Project Manager.** Managed the widening of I-10 from two lanes in each direction to three lanes in each direction. Dual existing bridges over Wards Creek Diversion will be widened, and the existing 850-foot-long dual bridges over the Kansas City Railroad and La Crete Drive were completely replaced with new three-lane bridges with 12-foot shoulders and increased clearances to allow the railroad to add a parallel track in the future.
2012 – 2013	**SP No. 450-10-0108- Interstate 10 Widening, I-12 to Siegen Lane - Baton Rouge, LA.** *DOTD* **Project Manager.** Managed the widening of I-10 from three lanes in each direction to four lanes in each direction, starting at Siegen Lane and ending at the I-12 interchange. A bridge and overpass sections were replaced.
11/10 – 08/12	**LA-1 to I-10 Connector 30% Design - Port Allen, LA.** *Volkert/DOTD* **Supervising Geotechnical Engineer.** Supervised 30% design plans for a proposed new connector between I-10 and LA-1 in West Baton Rouge Parish. The extension included two bridges and two miles of new roadway. Bridges over an existing railroad and the Intracoastal Canal were included. An evaluation of a possible retained earth embankment was included.
09/08 – 11/08	**Interstate 12 Widening - East Baton Rouge and Livingston Parishes, LA.** *DOTD* **Senior Engineer.** Provided senior oversite for this major Interstate highway improvement. Terracon performed drilling and laboratory activities for the project. The project consisted of widening Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. The project needed to be performed under a compressed time schedule of 30 days for DOTD to release a Design-Build procurement package. He worked with the Terracon team to ensure the schedule was met by using multiple drill rigs to complete the fieldwork. The work completed by Terracon received high marks from the design-build team.
12/07 – 07/12	**Louisiana DOTD Off-System Bridge Program - Statewide in LA.** *DOTD* **Engineering Support.** Provided engineering support for multiple off-system bridge projects. Terracon provided geotechnical drilling, laboratory testing, and engineering support for several bridges designated for replacement under the Louisiana Department of Transportation and Development Off-System Bridge Program. Terracon served as a sub-consultant for a civil engineering firm selected by Louisiana DOTD to design the new bridge for each bridge. In each case, the project civil engineer provided all additional engineering and land surveying required to perform topographic surveys and hydraulic studies and prepared the preliminary and final roadway and bridge plans. Terracon completed geotechnical investigations for bridges throughout Louisiana and in various geologic settings.

Firm employed by	**Terracon Consultants, Inc.**		
Name	**Sarah Berman, P.E.**	*Years of relevant experience with this employer*	4
Title	Geotechnical Engineer	*Years of relevant experience with other employer(s)*	6
Degree(s) / Years / Specialization	Bachelor of Science/ Engineering/ Louisiana State University/ 2013		
Active registration number / state / expiration date	Professional Engineer 43630 / Louisiana / March 31, 2024		
Year registered 2019 *Discipline*	Professional Engineer (Civil)		
Contract role(s) / brief description of responsibilities	Geotechnical Engineer		

Experience dates	*Experience and qualifications relevant to the proposed contract.*
Sarah's recent work on roadway projects has been in the capacity of project manager. Prior to joining Terracon, she worked on a number of DOTD roadway projects with previous employers as an Assistant Project Engineer. She was assigned several tasks on these projects, some of which included analyzing consolidation testing results, compiling, and reviewing soil boring logs, and assisting with running some of the soil laboratory tests, including Atterberg Limits, Unconsolidated Undrained Triaxial Compression Tests, and Unconfined Compression Tests. She also worked on AutoCAD drafting, drilling coordination and performed driven pile analysis.	
11/21 - Present	**Ham Reid Road Extension, Calcasieu Parish, LA.** *CH Fenstermaker* **Project Manager.** Managed project that included geotechnical engineering services.
10/21 - 12/21	**H.003931 I-10 Lake Charles, Lake Charles, LA.** *DOTD* **Senior Staff Engineer.** Reviewed logs, samples, and data.
10/20 – 02/22	**Lee Drive (Highland Road – Perkins Rd) Capacity and Turning Movements, Baton Rouge, LA.** *City of Baton Rouge* **Project Manager.** Reviewed logs, samples, and data. She performed analysis/design. Provided supervision and prepared the report.
09/20 - Present	**Alphonse Forbes Road Bridge Replacement, Central, LA.** *ARCADIS* **Project Manager.** Reviewed logs, samples, and data. Performed analysis/design, provided supervision, and prepared the report.
08/20 – 09/20	**H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, LA.** *DOTD* **Senior Staff Engineer.** Performed engineering analyses and design. She also prepared the report. The project consisted of providing a site characterization report for the new road and bridge, pile design, and pavement design recommendation. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway, borings in undeveloped land adjacent to the Port of Lake Charles, and borings in Bayou Contraband. Field exploration was completed safely over the course of multiple weeks with up to four land and water drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards. Terracon provided recommendations for precast concrete piles, pavement design, and site preparation.
10/19 – 02/22	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA.** *DOTD* **Senior Staff Engineer.** Reviewed logs, samples, and data. She performed analysis/design, provided supervision, and prepared the report.
03/19 (Previous employer)	**Dogwood South Subdivision Unit No. 20 Roadway, Bossier City, LA.** **Geotechnical Project Manager.** Reviewed logs and data. Performed analysis/design and prepared the geotechnical report. Project consisted of preparing an AASHTO pavement analysis for a new road.
03/18 – 04/18 (Previous employer)	**Roadway Rehabilitations (Besson Ln/Jake Ln/Ravier Ln), St. Gabriel, LA.**

	Geotechnical Project Manager. Coordinated drilling efforts, reviewed samples, prepared boring logs, performed analysis, and prepared the geotechnical report. This project consisted of either mill and overlay or full depth reconstruction of the three roadways.
11/16 – 03/17 (Previous employer) 07/16 – 09/16 (Previous employer)	**Cook Road Roundabout, Livingston Parish, LA.** **Project Manager.** Coordinated drilling efforts, reviewed samples, prepared boring logs, performed analysis, and prepared the geotechnical report. This project consisted of the design and construction of a new roundabout intersection at Cook Road and LA Hwy 16. **Cook Road Improvements, Livingston Parish, LA.** **Project Manager.** Coordinated drilling efforts, reviewed samples, prepared boring logs, performed analysis, and prepared the geotechnical report. This project consisted of the widening and expansion of the existing Cook Road, the design and installation of a new 6-cell box culvert, and the construction of a new, 180-ft concrete bridge with 10 pile bents.
05/16 – 11/16 (Previous employer)	**Buddy Ellis Road Improvements, Livingston Parish, LA.** **Project Manager.** Coordinated drilling efforts, reviewed samples, prepared boring logs, performed analysis, and prepared the geotechnical report. This project consisted of an overlay to the existing asphalt surface of Buddy Ellis Road and the replacement of the Taylor Creek Bridge with a short-span reinforced concrete slab on abutments.
Estimated 12/13 – 03/16 (Previous employer)	**SP No. H.002260.5, Goose Bayou Bridge, Geotechnical Investigation Goose Bayou Bridge Route LA 45, Jefferson Parish, LA.** *DOTD* **Assistant Project Manager.** Coordinated drilling efforts.
Estimated 12/13 – 03/16 (Previous employer)	**SP No. H.004435, I-12 to Bush-Segment 2, LA 3241 (LA 36 – LA 435), St. Tammany Parish, LA.** *DOTD* **Assistant Project Manager.** Performed driven pile analysis and soil boring analysis.
Estimated 12/13 – 03/16 (Previous employer)	**SP No. H.010612.5, I-20 MS River Bridge Soil and Scour Stabilization, Madison Parish, LA @ Vicksburg, MS.** *DOTD* **Assistant Project Manager.** Prepared AutoCAD renderings, Coordinated monitoring and drilling.
Estimated 12/13 – 03/16 (Previous employer)	**SP No. H.010601, I-10 LA 328 to LA 347, St. Martin Parish, LA.** *DOTD* **Assistant Project Manager.** Performed soil boring analysis.
Estimated 12/13 – 03/16 (Previous employer)	**SP No. H.003003, I-10E JCT I-49 – LA 328, Lafayette Parish and St. Martin Parish, LA.** *DOTD* **Assistant Project Manager.** Soil Boring analysis.

Firm employed by	**Terracon Consultants, Inc.**				
Name	**Ryan Poindexter, P.E.**		*Years of relevant experience with this employer*	7	
Title	Geotechnical Engineer		*Years of relevant experience with other employer(s)*	0	
Degree(s) / Years / Specialization			Bachelor of Science/ Engineering/ Colorado School of Mines/ 2013	*Certifications:* **Traffic Control Supervisor** **Certified Flagger**	
Active registration number / state / expiration date			Professional Engineer 46285 / Louisiana / March 31, 2024		
Year registered	2021	*Discipline*	Professional Engineer (Civil)		
Contract role(s) / brief description of responsibilities			Geotechnical Engineer		

Experience dates	*Experience and qualifications relevant to the proposed contract.*
Ryan has seven years of geotechnical engineering experience working for commercial, industrial, and transportation clients. His experience includes field and office tasks such as drill crew supervision, soil laboratory testing, data quality control, engineering calculations, geotechnical report preparation, and project management. Ryan now focuses on managing full-spectrum geotechnical projects, many of which are for LADOTD through our geotechnical retainer contract.	
07/21 – 12/21	**H.003931 I-10 Lake Charles, Lake Charles, LA.** *DOTD* **Project Manager**. Coordinated fieldwork and access, including private landowners and government agencies. Coordinated lab testing and QC-checked data. Prepared project deliverables and coordinated engineering review prior to final submittal.
05/20 – 01/21	**H.005121 LA-1 and LA-415 Connector, Port Allen, LA.** *DOTD* **Project Manager.** Coordinated fieldwork, access, and initial lab testing prior to the project being suspended.
07/18 – 10/21	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA.** *DOTD* **Staff Engineer.** Reviewed field logs, samples, and data. Assisted in coordinating lab testing.
06/18 – 06/21	**H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, LA.** *DOTD* **Assistant to Project Manager**. The project consisted of providing a site characterization report for the new road and bridge, pile design, and pavement design recommendation. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway, borings in undeveloped land adjacent to the Port of Lake Charles, and borings in Bayou Contraband. Field exploration was completed safely over the course of multiple weeks with up to four land and water drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards. Terracon provided recommendations for precast concrete piles, pavement design, and site preparation.
06/19 – 04/20	**H.004100, I-10- Widening East Baton Rouge Parish, Baton Rouge, LA.** *DOTD* **Project Manager.** The project consisted of providing a site characterization report for future improvements to the existing roadway. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway. Field exploration was completed safely over the course of multiple weeks with up to four land drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards.
10/18-01/19	**H.000133 US 80 Overpass at KCS RR, Simsboro, LA.** *DOTD* **Engineering Intern.** Assisted with subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. He worked on boring logs and reporting.
07/18 – 12/18	**H.009481, LA 20 Bayou Chevreuil Bridge - St. James Parish, LA.** *DOTD* **Assistant to Project Manager.** Coordinated field activities and lab testing for this geotechnical characterization for a replacement bridge. The project consisted of soil borings and CPT soundings along the proposed alignment of the replacement. The geotechnical field exploration required extensive use of water boring equipment. Before field operations began, site visits were conducted to determine the safest and most efficient access for drilling equipment around and along. Field exploration was completed safely over the course of multiple days utilizing land, pontoon, and barge-mounted drilling equipment. Laboratory testing included compressive strength testing and testing for classifying soil samples collected in accordance with LADOTD standards.

Firm employed by	**Terracon Consultants, Inc.**		
Name	**Brian Alexander**	*Years of relevant experience with this employer*	17
Title	Drilling Operations Manager	*Years of relevant experience with other employer(s)*	0
Degree(s) / Years / Specialization	Master of Science/ Physical Therapy/ University of St. Augustine/ 1999 Bachelor of Science/ Biological Science/ Southeastern Louisiana University/ 1994		
Active registration number / state / expiration date	N/A		
Year registered	N/A	*Discipline*	N/A
Contract role(s) / brief description of responsibilities	Drilling Operations Manager		

Experience dates	*Experience and qualifications relevant to the proposed contract.*
With 17 years of experience in field exploration, Brian manages the geotechnical drilling operations for Louisiana and Mississippi. He has worked extensively on commercial, industrial, DOTD, and institutional projects. These assignments have provided him extensive experience in Shelby Tube and Split Spoon sampling, Macro-core, Geoprobe and Electronic Cone Penetrometer Testing (CPT), and mud rotary drilling. He coordinates logistics/scheduling of projects between the six offices in both states and assists neighboring states in project coordination when it is needed. His approach to increased field safety has earned him safety awards at the division and national levels.	
01/22- 01/22	**H.012033 Cross Bayou and Caney Bayou Bridges, Ouachita Parish, LA.** *DOTD* Supervised drill crews for this project.
01/22 – 01/22	**H. 002794.5 LA 308, Canal Bridges Near Larose, Larose, LA.** *DOTD* Supervised drill crews for this project.
07/21 – 10/21	**H.003931 I-10 Lake Charles, Lake Charles, LA.** *DOTD* Supervised drill crews during field exploration.
05/20 – 01/21	**H.005121 LA-1 and LA-415 Connector, Port Allen, LA.** *DOTD* Supervised drill crews for this project.
10/18 – 07/19	**H.010620: US 90 (I-49 South) Design Build, Lafayette Parish, LA.** *C.H. Fenstermaker* Supervised drill crews and worked in the field as a logger on several of these projects.
06/19 – 11/19	**H.004100: I-10- Widening East Baton Rouge Parish, LA.** *DOTD* Supervised drill crews and worked in the field as a logger.
07/18 – 10/18	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA.** *DOTD* Supervised drill crews.
05/18 – 06/18	**H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, LA.** *DOTD* Supervised drill crews and worked in field as a logger for water borings.
05/17 – 08/17	**H.002980.5: I-10 Overpass US 165 & MPRR, Project; Iowa, LA.** *DOTD* Served as field supervisor for this project.
09/14 – 08/15	**Highway 167 Widening, LA** *DOTD* Supervised drill crews and worked in the field as a logger on several of these projects.
11/04 – 07/12	**Off-System Bridges throughout LA,** *DOTD* Supervised drill crews and worked in the field as a logger on several of these projects.
11/10 – 11/11	**LA 1/Interstate 10 Connector, Port Allen, LA,** *DOTD* Supervised drill crews.
05/08 – 03/09	**I-12 Widening – East Baton Rouge and Livingston Parishes, LA,** *DOTD* Served as field supervisor for this contract.

Firm employed by	**Terracon Consultants, Inc.**		
Name	**Matt Minton**	*Years of relevant experience with this employer*	21
Title	Geotechnical Laboratory Manager	*Years of relevant experience with other employer(s)*	0
Degree(s) / Years / Specialization	Bachelor of Science/ Industrial Technology/ Southeastern Louisiana University/ 2001		
Active registration number / state / expiration date	N/A		
Year registered	N/A	*Discipline*	N/A
Contract role(s) / brief description of responsibilities	Geotechnical Laboratory Manager		

Experience dates	*Experience and qualifications relevant to the proposed contract.*
Matt has 21 years of experience in laboratory testing and construction QA/QC testing for geotechnical projects, civil construction, and landfill construction. He currently serves as the Laboratory Manager of Terracon's Baton Rouge full-service geotechnical and construction materials laboratory. Matt has worked diligently to implement a complete QA process for all the laboratory tests conducted in our laboratory. Under his supervision, the Baton Rouge laboratory has maintained its LDEQ LELAP, USACE, and AASHTO (AMRL and CCRL) certifications.	
07/21 – 12/21	**H.003931 I-10 Lake Charles, Lake Charles, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
06/20 – 01/21	**H.005121 LA-1 and LA-415 Connector, Port Allen, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
06/19 – 01/20	**H.004100: I-10- Widening East Baton Rouge Parish, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
07/18 – 11/18	**H.011235.5: I-49 South @ Verot School Road US 90 - Lafayette, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
06/18 – 08/18	**H.005967.5: Nelson Rd. Extension and Bridges - Calcasieu Parish, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
06/17 – 02/18	**H.002980.5: I-10 Overpass US 165 & MPRR, Project - Iowa, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
09/17 – 11/17	**US 165/I-10 Project; Iowa, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
03/17 – 04/17	**H.001140 LA 124: Hooter Creek Bridge - Jena, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
01/17 – 03/17	**H009233: Bayou Flagon Bridges - Ball, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
09/14 – 08/15	**Highway 167 Widening.** *DOTD* **Lab Manager.** Served as lab manager on this project.
11/10 – 11/11	**LA 1/Interstate 10 Connector – 30% Design, Port Allen, LA.** *Volkert/DOTD* **Lab Manager.** Served as lab manager on this project.
05/08 – 03/09	**I-12 Widening – East Baton Rouge and Livingston Parishes, LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.
11/04 – 07/12	**Off-System Bridges throughout LA.** *DOTD* **Lab Manager.** Served as lab manager on this project.

Firm employed by: HNTB Corporation			
Name	Marc Hoffmann, PE	Years of relevant experience with this employer	5
Title	Project Engineer	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		MS /2018 / Civil Engineering / Louisiana State University BS / 2015 / Civil Engineering / Louisiana State University	
Active registration number / state / expiration date		#44342 / LA / 09-30-24	
Year registered	2020	Discipline	Civil
Contract role(s) / brief description of responsibilities		Bridge 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).
Marc brings over seven years of experience in bridge design, inspection, evaluation, and rehabilitation. During his tenure, he has gained extensive knowledge of the AASHTO manuals for bridge design, evaluation, and element inspection.	
02/21-12/21	**LADOTD LA 1 Phase 2 Bridge Design, Lafourche, Louisiana** Technical engineer and designer for new two-lane bridge connecting Golden Meadow, LA to Leeville, LA (approximately 8 miles of bridge). The project consisted of precast prestressed concrete girder spans, slab spans, and reinforced concrete substructures and consisted of three different phases: 2A, 2B, and 2C. As a technical engineer and designer on the project, he designed the substructures for Phase 2C. He also provided guidance on the superstructure design of the slab spans for Phase 2C. Models were created for the superstructure and substructure of the bridge using Leap Bridge Concrete, and the models were used for the design. Once the designs were finalized, MicroStation sheets were created to convey the design and construction intent, and the sheets were submitted to LADOTD.
10/21-Present	**LADOTD LA 532 over I-20 Bridge Design, Monroe, Louisiana** Technical engineer and designer for the new LA 532 bridge over I-20. The new bridge design utilized precast prestressed concrete beams on reinforced concrete bent caps with reinforced concrete columns. As a technical engineer for the project, he was tasked with designing the major portions of the bridge, including the girders, deck, and substructure. Models were created for the superstructure and substructure of the bridge using Leap Bridge Concrete, and the models were used for the design. Once the design was finalized, MicroStation sheets were created to convey the design and construction intent, and the sheets were submitted to LADOTD.
02/18-06/18	**LADOTD LA 15 over Boeuf River Bridge Design, Richland Parish, Louisiana** Technical engineer and designer for the new LA 15 bridge over Boeuf River. The new bridge design utilized precast prestressed concrete beams on reinforced concrete bent caps. As a technical engineer for the project, he was tasked with designing the major portions of the bridge, including the deck and concrete bent caps. Models were created for the design of the superstructure and substructure using Leap Bridge Concrete.

Firm employed by: HNTB Corporation			
Name	Patrick Duffy, PE	Years of relevant experience with this employer	2
Title	Engineer III	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		MS / 2020 / Civil Engineering / Louisiana State University BS / 2016 / Civil Engineering / Louisiana State University	
Active registration number / state / expiration date		#45363 / LA / 09-30-23	
Year registered	2021	Discipline	Civil
Contract role(s) / brief description of responsibilities		Bridge 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).
Patrick has experience working on a variety of bridges, including slab span, steel I-beam, steel plate girder swing span, steel truss, concrete precast slab units, and concrete pre-stressed girder bridges. Having worked on both simple and complex bridges throughout the state of Louisiana for the LADOTD, he is familiar with the proper requirements and standards that the LADOTD expects. He is proficient in essential programs such as AASHTOWare BrR, Bentley LEAP RCPier, MathCad, and MicroStation.	
2/19-04/21	**LADOTD MacArthur Interchange Completion Phase II, Harvey, Louisiana** Bridge engineer responsible for designing the girder details of 45 spans. Tasks included designing 93 concrete pre-stressed girders, developing dapped end girder calculations and reinforcement details for both the 72-inch PPC Louisiana Girder (LG-72) and a 72-inch U-Shaped PPC Girder, and designing deck reinforcement. He also assisted in designing the three-span continuous slab unit for both the on and off-ramps and developed reinforcement details. He additionally performed QA/QC reviews on the deck drainage design.
04/21-10/21	**LADOTD LA 1 Phase 2 Bridge, Lafourche Parish, Louisiana** Bridge engineer on the slab span substructure design team for the elevated bridge intersection connecting relocated LA 1 with the existing road and bridge repair. Lead team for load rating of new superstructure and substructure of Phase 2C. The project involves elevating an 8.3-mile stretch of two-lane, at-grade, rural state highway 1 to 22 feet above the rising Gulf of Mexico and surrounding marsh to eliminate frequent inundation and consequential energy production impacts.
07/19-09/20	**LADOTD Bridge Load Ratings, Statewide, Louisiana** Bridge engineer responsible for rating 13 bridges and provided QA/QC review of the bridge models, results, and reports of 46 other bridges. He reviewed the as-built drawings of the bridges, determined the appropriate load rating method, performed load rating analysis on the selected bridges using AASHTOWARE Bridge Rating, LEAP Bridge Concrete, and MathCad, and wrote the load rating reports of the findings. The bridge types in this project were cast-in-place slab, precast slab units, concrete deck girder, pre-stressed concrete girders, steel plate-girders, frame culverts, arch culverts, and swing spans.

Firm employed by: HNTB Corporation				
Name	Travis Honore, PE		Years of relevant experience with this employer	1
Title	Engineer III		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			MS / 2019 / Civil Engineering BS / 2017 / Civil Engineering	
Active registration number / state / expiration date			#47091 / LA / 03-31-2025	
Year registered	2022	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Bridge 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).
Travis serves as an engineer in HNTB's Baton Rouge office. He has performed work on both simple and complex bridges, including steel I-beam, steel truss swing span, slab span, concrete precast slab units, concrete prestressed girder, pontoon and concrete box culverts. He is proficient in AASHTOWare BrR, Bently LEAP RCPier and Microstation software.	
06/16 - 12/16	**Horace Wilkinson Bridge Inspection, Baton Rouge, Louisiana** Engineer responsible for evaluating damage, deterioration, and basic bridge conditions to ensure public safety. Other tasks included analyzing and reviewing plans, survey reports, maps, and other data to verify correctness and quality control.
01/19 - 02/22	**Load Rating of 176 & 311 Bridges, Louisiana** Engineer who created structural system models and performed an analysis of complex and non-complex bridges to determine loads and estimated capacity of members from the superstructure and substructure.
01/19 - 02/22	**Load Testing of Five Bridges, Cameron Parish, Louisiana** Engineer who conducted load tests by placing sensors on many positions on top and under bridges to identify approximate strain results after trucks maneuvered across the bridge to provide an accurate result of member capacity.
04/20 - 02/22	**Macarthur Interchange Completion Phase II, Jefferson Parish, Louisiana** Engineer who developed demolition and construction phasing plans to show the phases for removing old structures and constructing new structures. Designed the bridge deck reinforcement using AASHTO LRFD Bridge Design Specifications and developed plans for the deck reinforcement. He assisted in designing the three-span continuous slab unit for both the on and off-ramps. He calculated the quantities of steel reinforcement and concrete for new ramps structures.
06/21 - 08/21	**Mermentau River Bridge Rehab, Cameron Parish, Louisiana** Engineer who designed member rehabilitation using software such as AASHTOWARE BrR. Developed plans for both member rehabilitation and other general bridge repairs.

Firm employed by: HNTB Corporation			
Name	Brian Powell, PE	Years of relevant experience with this employer	20
Title	Sr. Geotechnical Project Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 2007 / Civil Engineering (Geotechnical) BS / 2002 / Civil Engineering	
Active registration number / state / expiration date		#41551/LA/9-30-2023; #29116/MS/12-31-2023; #31900/WI/7-31-2024	
Year registered	LA 2017; MS 2018	Discipline	Civil
Contract role(s) / brief description of responsibilities		**MPR #6** | Geotechnical Design MPR, Lead Geotechnical Design 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).
Brian is professional civil engineer, registered in the state of Louisiana, with 21 years of experience in Geotechnical Design involving Louisiana soils and bridge structures (e.g., bridge or box culvert). His geotechnical infrastructure experience includes subsurface investigations including soil borings, laboratory testing, cone penetrometer test (CPT) soundings, water level observations, geophysical explorations, soil classification, site characterization, and soil boring logs according to ASTM standards and FHWA Geotechnical Engineering Circular No. 5 (GEC 5). His geotechnical engineering design experience includes preparing work scopes, managing subsurface investigations, designing, planning, preparing geotechnical data and interpretation reports, and developing specifications for geotechnical aspects of transportation and bridge projects. His experience includes design of temporary and permanent earth retaining structures; groundwater drawdown and embankment settlement; slope stability (e.g., Spencer's); seepage and cutoff walls; shallow and deep foundations (e.g., driven pile, drilled shaft, and others); bridge foundation load test programs (e.g., static, dynamic and bi-directional load tests); deep foundation lateral loading, uplift, group effect, downdrag and settlement induced bending; scour; staged embankment surcharge preloading and monitoring; lightweight fill; wick drains; soil improvement; pavement; levees; embankments; floodwalls; geotechnical instrumentation and geosynthetics and time rate predictions. His deep foundation design experience includes design methodologies including LRFD design, FHWA Geotechnical Engineering Circulars (GEC) No. 10 and No. 12, LTRC Project 98-3GT, and La DOTD Bridge Design Technical Memorandum, La DOTD MSEW Design Guide, G.E.D.G. No. 8, AASHTO Bridge Design Specifications, and USACE EM-1110-2-2504, Design of Sheet Pile Walls	
08/15-Present	**LADOTD LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana** Geotechnical engineer task lead for the Phase II floodwall design at the Larose to Golden Meadow levee system that required a 408-permit review with the USACE. The project included constructing a nine-mile bridge from Leeville to Golden Meadow. Geotechnical tasks included T-wall-type floodwall design and foundation support, seepage cutoff, and global stability analyses according to USACE Hurricane Storm Damage and Risk Reduction System (HSDRRS) design guidelines with a 3D settlement analysis to estimate floodwall subsidence. Oversaw pile production driving and dynamic testing documentation for Phase 2E and currently overseeing the dynamic testing task for Phases 2A-C.
01/19-Present	**LADOTD I-10-Loyola Interchange Design-Build Owner Verification, Jefferson Parish, Louisiana** Senior geotechnical engineer contributor for the design-build Owner's Verifier CEI support services contract. Responsibilities include a review of design reports, design criteria, adherence to the performance-based specifications, and constructability of Design-Builder's progress submittals of this critical interchange connecting I-10 and Loyola Ave. through the local urban communities and downtown New Orleans to the Louis Armstrong New Orleans International Airport terminal expansion.

07/18-Present	**LADOTD Comite River Diversion US 61 and KCS Railway Bridges and Shoofly Design, East Baton Rouge Parish, Louisiana** Geotechnical engineer task lead responsible and HNTB project manager for the Comite River Diversion soil boring program, channel slope stability design and bridge foundations for the new KCS Railway and US 61 bridges over the Comite river diversion project. Foundations included PPC piles, steel pipe piles and drilled shafts up to 12 feet in diameter.
10/18-04/19	**LADOTD LA-15 over Boeuf River Bridge Replacement, Richland Parish, Louisiana** Geotechnical engineer task lead for an off-alignment bridge replacement. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, seismic evaluation, approach embankment settlement calculations and slope stability.
07/19-04/19	**LADOTD LA-532 over I-20 Bridge Replacement, Webster Parish, Louisiana** Geotechnical engineering task lead for an off-alignment bridge replacement with an accelerated design and plan development schedule. Geotechnical tasks included the design for drilled shaft foundations and the development of bi-directional load tests.
09/20 - 03/21	**LADOTD LA-1 over Caddo Lake Bridge Replacement, Caddo Parish, Louisiana** Geotechnical engineering task lead for an off-alignment bridge replacement. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, approach embankment settlement calculations, and slope stability.
07/19-Present	**Comite River Diversion, Bayou Baton Rouge Drop Structure Rock Chute, Carney Road Bridge, and Pump Station, East Baton Rouge Parish, Louisiana** Senior geotechnical engineer task lead and HNTB project manager responsible for geotechnical design and management of scour countermeasure and pump station design for approximately 4,000 feet of a 50-foot-deep by 300-foot-wide diversion channel, 2,500 feet of rock chute drop structure and temporary bypass channels, Carney Road bridge precast prestressed concrete pile foundation and 1.5 cubic feet squared submersible pump station. The environmental pump station was required to recharge downstream of Bayou Baton Rouge. The geotechnical design included pile foundations and preload analyses, down drag evaluation, channel slope stability, temporary retaining structure design, and excavation dewatering evaluations.

Firm employed by: HNTB Corporation				
Name	Brad Wilder, PE		Years of relevant experience with this employer	12
Title	Senior Geotechnical Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			MS / 2007 / Geotechnical Engineering BS / 1999 / Geotechnical Engineering and Geology	
Active registration number / state / expiration date			#40735 / LA / 09-30-2024 #32184 / MS / 12-31-2023 #40186 / WI / 07-31-2024 #13141156-2202 /UT / 03-31-2025	
Year registered	LA 2016, MS 2021, UT 2023, WI 2009	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Geotechnical Design 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).
Brad is a geotechnical engineer in HNTB's New Orleans office with more than 20 years of experience. His geotechnical infrastructure experience includes subsurface explorations including borings and cone penetration testing, geophysical explorations, and foundation design for roadways, bridges, embankments, and retaining walls. Retaining wall design includes numerous MSE wall designs including both external and internal design. He is also familiar with FHWA and DOTD Geotechnical Engineering Circulars for field explorations and engineering design, ASTM field and laboratory testing criteria, and LRFD design.	
03/20-Present	**LADOTD I-10/Loyola Interchange Design-Build Owner Verification, Jefferson Parish, Louisiana** Senior geotechnical engineer for the design-build owner's verifier CEI support services contract. Responsibilities include a review of design reports, design criteria, adherence to performance-based specifications, and constructability of the design-builder's progress submittals. Senior technical reviews include verifying pavement design reports, deep foundation support and load tests for new roadway flyover and canal bridges, embankment settlement and preload evaluations, slope stability, and sound wall stability to meet LADOTD design standards.
01/18-Present	**I-20 Eastbound Flyover at I-55 Bridge Replacement, Hinds County, Mississippi** HNTB was scoped by MDOT to design and develop plans and specifications for the I-20 Eastbound Flyover at I-55 in Hinds County, Mississippi. The proposed bridge consisted of approximately 1,800 feet, including a span over the ICRR corridor. He provided oversight and technical quality control for the geotechnical subsurface exploration drilling plan, management and findings, estimated geotechnical design soil parameters, deep foundation shaft analyses and recommendations, including bi-directional load test plans, settlement analysis at proposed embankment fill locations, slope stability analyses of existing fill slopes requiring H-pile reinforcement, permanent cantilevered sheet pile retaining wall analysis, temporary shoring, and construction recommendations.

Firm employed by: HNTB Corporation			
Name	Jared Sommers, PE	Years of relevant experience with this employer	12
Title	Senior Geotechnical Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2012 / Civil Engineering BS / 2007 / Mathematics	
Active registration number / state / expiration date		#40978 / LA / 03-31-2025	
Year registered	LA 2016	Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Design 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).
Jared is a geotechnical project engineer experienced in developing work scopes, managing subsurface investigations, design, plans, and preparing specifications for geotechnical aspects of transportation, bridge, railway, aviation, architectural, environmental and water infrastructure projects for private sector, municipal, state and federal clients. He has engineering experience in Louisiana, Mississippi, Texas, Arkansas, Missouri and Iowa. His expertise includes levees, embankments, floodwalls, settlement, slope stability, seepage and deep foundations.	
09/20 - 03/21	**LADOTD LA-1 over Caddo Lake Bridge Replacement, Caddo Parish, Louisiana** Geotechnical engineer for an off-alignment bridge replacement. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, approach embankment settlement calculations, and slope stability.
01/13-10/16	**LADOTD LA 1 Bridge - 408 Document for the Golden Meadow Ring Levee, Golden Meadow, Louisiana** Assisted in seepage analysis and T-wall design for the bridge levee crossing. He helped in determining the depth of sheet pile to prevent any heave or uplift on the levee in a storm event and helped design the T-wall under the bridge to prevent future levee lifts from causing downdrag on the bridge piles resulting in unwanted settlement.
10/18-04/19	**LADOTD LA-15 over Boeuf River Bridge Replacement, Richland Parish, Louisiana** Geotechnical engineer for an off-alignment bridge replacement. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, seismic evaluation, approach embankment settlement calculations and slope stability.
07/18-06/20	**Comite River Diversion US 61 and KCS Railway Bridges and Shoofly Design, East Baton Rouge Parish, Louisiana** Geotechnical engineer responsible for the Comite River Diversion drilling program, stability design and bridge foundations for the new KCS Railway and US 61 bridges over the Comite river diversion project. Foundations included PPC piles, steel pipe piles and drilled shafts up to 12 feet in diameter.

Firm employed by: HNTB Corporation				
Name	Joshua Porter, PE		Years of relevant experience with this employer	7
Title	Bridge Project Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			BS / 2010 / Civil Engineering / Louisiana State University	
Active registration number / state / expiration date			#39513 / LA / 09-30-2023	
Year registered	2015	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**MPR #4 & #5** | Slab Span MPR, Bridge Design and Plans Lead	

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).
Josh has experience in bridge design, load rating, inspection, and detailing. His experience spans many structures, including precast prestressed concrete girders (LG and AASHTO shapes), reinforced concrete slab spans trusses and gusset plates, and curved and straight steel girders, and culverts. He has been tasked with developing load rating and design models, developing and overseeing the development of bridge plans, cost estimating and benefit analysis, project management, and leading and assisting in inspecting bridges. He has extensive experience with the AASHTO LRFD Bridge Design Specifications and the AASHTO Manual for Bridge Evaluation. He has proficient experience with AASHTO Bridge Rating and Design, LEAP CONSPAN AND RC Pier, STAAD, and CSi Bridge.	
11/16-08/21	**LADOTD LA 1 Phase 2, Leeville to Golden Meadow, Louisiana** Task lead for the design and plan development of the reinforced concrete slab spans making up the north end of the structure. The structure was developed to allow for on structure tolling. This created a unique layout requiring the need for 72 total spans with 31 unique slab designs. Designs included straight, curved, single sided tapered, double sided tapered, and spans with unsupported edges. Also tasked with design checking and load rating of various LG precast prestressed girder spans and steel girder spans.
10/18-05/20	**LADOTD LA-532 over I-20, Minden, Louisiana** Project manager and design lead for an off-alignment bridge replacement carrying LA 532 over I-20 in Minden, Louisiana. The project called for using LG-36 girders at nearly the maximum length to span the interstate while meeting the vertical grade and clearance requirements. Spans were supported on column bents with 60" drilled shaft foundations.
02/19-02/20	**Indiana Department of Transportation Indianapolis Rd Bridge, Whitestown, Indiana** Task lead for the design and plan development of the reinforced concrete slab spans replacing an existing box culvert. The design consisted of 3 slab spans with integral abutments along a 40-degree skew. Tasks including running the slab design calculations, developing the general plan and elevation sheets, developing span detail sheets, and QC for various other tasks.
01/19-06/20	**LADOTD I-10: Loyola Slab Span Repairs, Kenner, Louisiana** Performed the analysis and load rating of existing slab span units to determine the cause and potential repairs of longitudinal cracks. The analysis considered existing conditions and various repaired conditions. The results of the analysis determined that full depth repairs were not the most beneficial and that a maintenance related fix was more appropriate. Worked with a product manufacturer to specify an appropriate product.
12/22-Present	**LADOTD LA 327-S Bayou Fountain, Baton Rouge, Louisiana** Project manager and design lead on a bridge replacement for an existing slab span to a new slab span over Bayou Fountain in Baton Rouge, LA. The new structure consists of 2 lanes and a raised sidewalk which would not allow the use of standard plans.

	Tasks include project management, development of general plans, guiding junior engineers in the design process, and quality control management.
05/20-06/22	**LADOTD LA 3250: I-49/UP RR Overpass Repair, Alexandria, Louisiana** Project manager for a repair of a precast prestressed girder bridge crossing I-49 and the Union Pacific Railroad. Performed the assessment of the damaged structure to determine repair needs. Developed the concept of the replacement utilizing accelerated bridge construction techniques. Led the design team in the analysis of the new segment. Oversaw the detailing of the new segment and the outlining of the removal section to allow for seamless placement of the new segment within the footprint of the removed segment.
12/16-05/19	**LADOTD U.S. 80 over I-20, Ouachita Parish, Louisiana** Project task manager for demolishing and replacing a deficient bridge in crossing I-20. Tasked with design checking of the steel girder spans, design of the intermediate bent, design check of the end bents. Also utilized accelerated bridge construction techniques to develop a construction phasing plan limiting the closure of I-20.
06/17-12/18	**LADOTD LA 442 over Tangipahoa River Bridge Replacement, Tangipahoa Parish, Louisiana** Project manager for a bridge replacement of a bridge with scour concerns caused by the August 2016 flooding. The replacement structure utilized precast prestressed LG-36 girders. Tasked with design checking of superstructure and substructure, developing the construction plans, and managing the project.
11/19-09/20	**LADOTD Off-System Bridge Rating (53 Bridges), Statewide Louisiana** Project manager and lead load rating engineer for a large off-system load rating task. To comply with FHWA NBIS Metric #13, a substantial number of structures required load rating. Lead the effort overseeing the team to rate the various structures, which included pre-stressed girder bridges, rolled I-beam bridges, steel plate girders, and reinforced concrete slab spans. Many structures had poor quality, incomplete, or completely missing plans. Utilized engineering judgment and coordination efforts with the DOTD load rating group to develop the load ratings of structures with missing or incomplete plans.
09/20-09/21	**LADOTD I-20 Median Barrier, Bossier City, Louisiana** Lead load rating engineer and load rating task manager for the load rating of 12 bridges along the I-20 corridor in Bossier City, Louisiana, as part of a larger median barrier design project. Bridge types included various steel structures, including curved continuous plate girders with expansion links and straight steel girders, hammerhead concrete column bents, haunched reinforced concrete T girder spans, and pre-stressed concrete girders. The curved continuous steel girders required 3D FEM analysis to complete.
07/19-09/20	**LADOTD I-10 Calcasieu Load Ratings, Lake Charles, Louisiana** Project manager and lead Load rating engineer for the load rating of 25 bridges along the I-10 corridor in Lake Charles, Louisiana. Structure types included steel girders, reinforced concrete haunched girders, and pre-stressed concrete girders.
05/18-06/21	**LADOTD LA-15 Boeuf River Bridge, Alto, Louisiana** Project manager and design lead for an off-alignment bridge replacement. The bridge consisted of 5 spans of LG-54 girders supported by reinforced concrete caps founded on 30” concrete piles.
03/17-05/17	**LADOTD U.S. 90 over Atchafalaya River Bridge Inspection, St. Mary Parish, Louisiana** Led an inspection team for the inspection of a steel through truss bridge crossing the Atchafalaya River. Inspection responsibilities included the bottom chord, bottom of deck, gusset plates, and floor system.

Firm employed by: HNTB Corporation				
Name	John Bernard, PE		Years of relevant experience with this employer	24
Title	Technical Advisor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 1998 / Civil Engineering / Louisiana State University	
Active registration number / state / expiration date			#31026 / LA / 03-31-2024	
Year registered	2004	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Senior Bridge 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).
Mr. Bernard is experienced with bridge design, widening, repair, rating, inspection, construction support and plan preparation, as applicable for steel trusses, movable bridges, curved and straight plate girders, prestressed girders, slab span, and timber structures. He has experience designing with gravity concrete retaining walls with and without piles and with and without a roadway barrier.	
05/13-Present	**LADOTD LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana** Lead design engineer for this bridge project, which will eventually connect at-grade LA 1 to the existing Phase 1 structure (7.6 miles of bridge). His duties include coordination with LADOTD personnel, superstructure development, substructure development, and geometric alignment development. This project includes slab spans, prestressed girder spans, and advanced pile design for poor soils and moment connection to pile bent caps. This project is multi-faceted, including a phased design and construction approach, a tolling facility, levee, flood wall and pipeline crossings, unique accelerated bridge construction methods, and environmental regulations.
09/21-Present	**LADOTD I-110: North Street to Plank Road, East Baton Rouge, Louisiana** Lead design engineer for design and plans for the soil-founded, grade-separated (up to 8 feet) concrete cantilever retaining wall medians with traffic barriers.
09/20-04/21	**LADOTD Caddo Lake Bridge (HBI) (H.013839), Caddo, Louisiana** Lead design engineer for prestressed girder superstructure, non-standard approach slabs, guardrail, and all bridge plans. The new 2,050-foot prestressed girder bridge replaces the existing bridge using phased construction.
02/16-05/17	**US 90 over LA 14, Iberia Parish, Louisiana** Lead design engineer for design and plans of a 49-degree skewed, steel plate girder superstructure (120-ft spans). Plans included phased construction and accelerated bridge construction method with staging area.
07/07-07/14	**Stumberg Lane Extension, Baton Rouge, Louisiana** Lead design engineer for a 60-degree skewed, 320-ft, prestressed girder bridge with pile bents.
01/18-04/19	**I-20 EB Bridge (Flyover) at I-55 South, Hinds County, Mississippi** Lead design engineer for design and plans of a complex, highly curved, highly skewed, prestress girder superstructure that included flared spans. Total bridge length of 1,855-ft with longest span of 170-ft.

Firm employed by: HNTB Corporation					
Name	Ben Goodner, PE		Years of relevant experience with this employer	16	
Title	Bridge Department Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering / Louisiana State University		
Active registration number / state / expiration date			38208 / LA / 03-31-24		
Year registered	2013	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge Engineer & Bridge Design Checker		

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).
Ben is a civil engineer with 15 years of experience in levee, floodwall, roadway, drainage design, levee inspection, bridge design and bridge inspection. Ben has 11 years of bridge design experience working on LADOTD projects. He has been tasked with managing task orders and leading a team of individuals in bridge design, analysis, and plan production.	
05/13-Present	**LADOTD LA 1 Phase 2, Leeville to Golden Meadow, Louisiana** Lead engineer responsible for developing design and plans for the nine-mile stretch of the bridge and a 300-foot concrete T-Wall. His responsibilities included preliminary superstructure design of LG girders, slab span design, deck design, substructure design, preliminary and final plan development, checking plans and design calculations, T-Wall site layout, plan, and specification development. This $450-million project will provide a new two-lane bridge from Leeville to Golden Meadow. Performed field investigations and developed detailed plans conforming to LADOTD design guidelines and standards.
09/20-09/21	**LADOTD Caddo Lake Bridge (HBI), Caddo Parish, Louisiana** Project manager on this bridge replacement project. Responsibilities include managing design task and plan production, design of LG girders, design of substructures, site layout, construction phasing layout, quantities, and cost estimates. Tasks also include managing all submittals and reviews for construction services.
09/19-02/22	**City of New Orleans, Morrison Bridges, New Orleans, Louisiana** Project manager for rehabbing three slab span bridges and replacing two slab span bridges along the Morrison Road Corridor. Responsibilities included managing design and plan production, substructure and superstructure design, substructure & superstructure rehabilitation, construction phasing, quantities, and cost estimates.
05/17-10/18	**BR-0020-01(216)/105858-302000: US 84 I-20 Eastbound Bridge at I-55 South. Jackson, MS** Project engineer for the final design and plan production of this 14-span bridge utilizing FIB-78 & FIB-84 girders. Responsibilities included girder layout and design of the multiple unique spans and girders with varying skews and curved alignment. Other responsibilities were abutment design, load rating of the structure and assembling the load rating report. Mr. Goodner also conducted an advanced camber analysis on each girder. Due to the length of the beams the client wanted to ensure the camber was accurately predicted.

Firm employed by: HNTB Corporation				
Name	Dusty Bastion, PE		Years of relevant experience with this employer	10
Title	Associate Vice President		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			BS / 2007 / Civil Engineering / Louisiana Tech University	
Active registration number / state / expiration date			36719 / LA / 03-31-24	
Year registered	2011	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Supervisor Bridge 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).
Dusty has experience in project management, design, detailing, analysis, inspection, and load rating of bridge structures. His experience includes many types of superstructures and substructures in projects varying from multi-level interchanges to off-system bridge replacements. His responsibilities include structural design, plan development, specifications development, cost estimating, quality control review and project management ranging from standard bridge projects to non-typical accelerated time frame projects. He is proficient with AASHTO LRFD and the BDEM. He is a former LADOTD bridge design section engineer and he has unparalleled knowledge of LADOTD's plan development and contracting processes. Dusty is the project manager for two current bridge preservation IDIQ contracts held with the department.	
04/20-present	**LADOTD IDIQ Contract for Bridge Preservation, Statewide, Louisiana (Contract 44…17264)** Project manager for this task order based IDIQ contract focused on bridge preservation. Over the less than three years, he has directly managed the contracting and execution of 20 task orders with more currently in the contracting process. Task orders have consisted of interstate median barrier design and detailing (I-20 in Bossier and I-110 in Baton Rouge), bridge replacements using phased construction (LA 1 over Caddo Lake in Mooringsport), and girder replacements/repairs due to overheight vehicle impacts (Orange Street over I-20 in Monroe, LA 3250 over I-49 in Alexandria, I-12 over LA 1032 in Denham Springs). He has provided direct oversight of production staff, including plan development guidance, sequence of construction input, construction support oversight, internal coordination, and coordination directly with LADOTD personnel. Due to time-sensitive project delivery needs, many projects required accelerated project delivery and he collaborated with LADOTD task managers to understand schedule needed to ensure no project delivery delays occurred.
08/15-04/22	**LADOTD Retainer Contract for Bridge Preservation, Statewide, Louisiana (Contract 44…05772)** Project manager for this task order-based retainer contract focused on bridge preservation. Over the nearly 6.5 years this contract was active, he directly managed the contracting and execution of 32 task orders. Task orders consisted of bridge rehabs/replacements using accelerated bridge construction techniques (I-20 Rehab in Bossier, U.S. 80 over I-20 in Calhoun, U.S. 90 over LDRR and LA 329 in New Iberia, U.S. 90 over LA 14 in New Iberia, I-10 Slab Spans over Veterans Boulevard in New Orleans), bridge replacements using conventional construction techniques (LA 442 over Tangipahoa River in Hammond, LA 532 over I-20 near Minden), and analysis/rehabilitation of thru-truss structures (LA 182 Bridge in Charenton, U.S. 90 Atchafalaya Bridge in Morgan City). He provided direct oversight of production staff, including plan development guidance, sequence of construction input, construction support oversight internal coordination and coordination directly with LADOTD personnel.

09/20-present	**LADOTD LA 1 over Caddo Lake, Mooringsport, Louisiana (H.001166)** Project manager for replacement of an aging pony truss structure crossing over Caddo Lake near Shreveport, LA. This project is comprised of entirely LG girders on driven pile foundations and was developed using phased construction to reduce ROW. Mr. Bastion has managed distribution of all work assignments to-date, including both internal assignments and workshare with other offices. As part of his project oversight role, he provided input into phasing details while ensuring constructability. Currently this project is under construction and Dusty is overseeing all construction support activities which are anticipated to be completed next year.
04/13-present	**LADOTD LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana (H.008145)** Project manager for this bridge project, which will eventually connect at-grade LA 1 to the existing Phase 1 structure. This 8-mile long structure is comprised almost entirely of PPC girders. His duties include coordination with LADOTD personnel, superstructure development, substructure development and geometric alignment development. His additional project coordination responsibilities include subconsultants, permits, utilities, electrical/lighting design, ITS design, and tolling system design. This project is multi-faceted, including a phased design and construction approach, a tolling facility, levee, flood wall and pipeline crossings, unique accelerated bridge construction methods, and environmental regulations. Construction is currently underway and he is managing all construction support and PDA monitoring efforts.
07/17-03/19	**LA 442 over the Tangipahoa River Bridge Replacement, Tickfaw, Louisiana (H.013052)** Project manager for this bridge replacement project found to be unstable due to excessive scour. This project consisted of accelerated delivery of bridge and roadway plan for this bridge replacement including obtaining topographical survey at the bridge site. Mr. Bastion oversaw roadway and bridge work as well as the survey subconsultant. Final plans were successfully delivered in only 5 months and this project, and construction was completed in early 2019.

Firm employed by	Forte and Tablada, Inc.			
Name	**Bradley S. Holleman, P.E., P.L.S.**		Years of relevant experience with this employer	2.5
Title	Senior Vice President, Survey/AMM		Years of relevant experience with other employer(s)	14.5
Degree(s) / Years / Specialization		B.S. / 2009 / Civil Engineering		
Active registration number / state / expiration date		PLS 5082 / Louisiana / 09/30/2024; PE 47165 / Louisiana / 03/31/2025		
Year registered	2012	Discipline	Land Surveying	
Contract role(s) / brief description of responsibilities		Role on this Project: Surveyor-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 years of experience specified in the applicable MPR(s).
01/21-12/21	*LA 327 Spur: Staring Lane Extension Route LA 327 - East Baton Rouge Parish, LA – CADD Technician providing topographic survey for this project in East Baton Rouge Parish, between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.*
01/21-12/22	*Calcasieu River Bridge (HBI) - Calcasieu Parish, LA – Surveyor-in-Charge for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.*
09/21 – Ongoing	*IDIQ Contract No. 4400021532 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07 –Surveyor-in-Charge performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LA DOTD.*
06/21 – Ongoing	*H.014219, H.014222, H.014231, H.0142636, H.014228 – Rural Bridge Replacement Initiative Phase II; 5 State Project Numbers (20 Structures) in Districts 04 and 05 – Surveyor-in-Charge providing topographic surveying services and right-of-way mapping services of 20 bridges in Louisiana. PLS performing property surveys and establishing existing right-of-way for 5 state project numbers.*
01/21 – 03/22	*H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990 – Rural Bridge Replacement Initiative Phase I; 7 State Projects Numbers (22 Structures) in Districts 04, 05, 08 and 58 – Surveyor-in-Charge providing topographic surveying services and right-of-way mapping services of 22 bridges in Louisiana.*
04/21 – 06/21	*H.014628 LA 397 Turn Lanes @ Rice Mill – Calcasieu Parish, LA – Surveyor-in-Charge for this project providing topographic surveying services, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.*
12/2019 – 11/2020	*H.001344 US 190: LA 437 – US 190 (BUS) - Surveyor-in-Charge for the property survey and right of way map. This project was for the construction of improvements along US 190 form La 437 to US 190 (BUS). The work consisted of conducting field and office analysis to determine the existing right of way and produce a set of right of way maps, according to LA DOTD specifications, for acquisition of parcels required for construction.*
4/2017 – 10/2019	*H.002151 LA 339 and LA 339S Bayou Parc – LA DOTD -South Louisiana Survey Retainer – Surveyor-in-Charge for the property survey and right of way map. This project was for the construction of a bridge replacement and improvements along LA 339. The work consisted of conducting field and office analysis to determine the existing right of way and produce a set of right of way maps, according to LA DOTD specifications, for acquisition of parcels required for construction.*
9/2015-1/2016	*H.011323 Nighthawk / Spanish Trail – LA DOTD -South Louisiana Survey Retainer – Surveyor-in-Charge for the property survey and right of way map. This project was for the construction of a new railroad crossing connecting Nighthawk Road to Spanish Trail. The work consisted of*

	conducting field and office analysis to determine the existing right of way and produce a set of right of way maps, according to LA DOTD specifications, for acquisition of parcels required for construction.

3/2013 – 3/2013	*Bayou Corne Sink Hole Parcel Maps - LA DOTD -South Louisiana Survey Retainer – Project Manager for the property survey and right of way map. This project to address the salt dome collapse near Bayou Corne. The work consisted of conducting field and office analysis to determine the existing right of way and produce a set of right of way maps, according to LA DOTD specifications, for acquisition of parcels required for monitoring the roadway.*
3/2012 – 11/2012	*H.0023586 LA 16 at LA 22 Roundabout- Livingston Parish - LA DOTD -South Louisiana Survey Retainer – Project Manager for the property survey and right of way map. This project was for a the construction of a roundabout at the intersection of La 22 and La 16. The work consisted of conducting field and office analysis to determine the existing right of way and produce a set of right of way maps, according to LA DOTD specifications, for acquisition of parcels required for construction.*
1/2018 – 4/2020	*H.004100 I-10: LA 415 to Essen Lane - Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
5/2018 – 4/2019	*H.012591 I-10 Paris Road Lake Pontchrain - Surveyor-in-Charge for the topographic survey, 3D Mobile laser scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
6/2016 – 2/2017	*H.000263 Chef Menteur Pass Bridge - Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
12/2014 – 3/2016	*H.011137 & H.011152 I-12 (LA 21 to LA 59) – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
4/2012 – 9/2012	*H.009391 – LA 3188 Drainage Improvements – Surveyor-in-Charge for the topographic survey and existing drainage map. This project was for drainage improvements to resolve localized roadway flooding along La 3188. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*

Firm employed by	Forte and Tablada, Inc.				
Name	**Ross A. Wilson, P.L.S.**		Years of relevant experience with this employer	12	
Title	Surveyor		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization		B.S. / 2010 / Geomatics			
Active registration number / state / expiration date		5148 / Louisiana / 03/31/2024; Also Registered PLS in TX, MS, AR, FL, KY			
Year registered	2015	Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities		Professional Land Surveyor			

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21-06/21	*H.014628- LA 397: Turn Lanes at Rice Mill - Surveyor responsible for topographic surveying at the intersection of LA 397and Joe Spears Rd. in Calcasieu Parish.*
08/19-Ongoing	*H.011670-I-10/Loyola Interchange Improvements- Kenner, LA- Project Manager providing Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.*
06/20-Ongoing	*H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures) in Districts 04, 05, 08 and 58 – Surveyor for topographic surveying and right-of-way maps of 22 bridges in Louisiana.*
01/20-10/20	*H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415- West Baton Rouge & Iberville Parishes- Project Manager for complete topographic survey, approximately 18.3 miles, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.*
11/19-12/20	*H.012083- Calcasieu River Bridge Investigation, Calcasieu Parish, LA- Surveyor to provide laser scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, mobile Lidar was done for future planning.*
12/19-09/20	*H.011970- Bayou Terrebonne Bridges – Surveyor for the Bayou Terrebonne bridge along with the entire intersection and adjacent roads.*
11/18-04/19	*LA 327 Spur: Staring Lane Ext. Route LA 327-S- East Baton Rouge Parish, LA- Project Manager for a topographic survey for this project which is located in East Baton Rouge Parish, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.*
05/17-10/18	*H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey- Plaquemines Parish, LA- Surveyor for comprehensive topographic surveying services for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.*
01/18-06/19	*H.004100- I-10 (LA 415 to Essen Lane on I-10 and I-12)- East and West Baton Rouge Parishes- LA DOTD- Project Manager for topographic survey of the work between LSU lakes and Essen Lane.*
02/17-03/18	*H.010753.5- US 90 / I-310 Interchange, St. Charles Parish, LA- Surveyor responsible for topographic surveying and 3-D laser scanning at the intersection of US-90 and I-310 in St. Charles Parish.*
08/14-Ongoing	*H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD – Survey Manager responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.*
03/13-07/15	*H.004698 – Almonaster Avenue Lift Bridge – Orleans Parish, LA – LA DOTD – Survey Manager responsible for performing topographic and property surveys, developing a drainage map, establishing existing right-of-way for the north line of I- 10, Almonaster Avenue, and CSX*

	Railroad property, and establishing elevations to develop a Digital Terrain Model with widths matching the limits of the topographic survey.
10/18-02/19	*H.012343 Sunshine Bridge Repair- Surveyor responsible for establishing control on and near the Sunshine Bridge to use survey and laser scanning methods to monitor the damage on the bridge. This project included utilizing LiDAR data.*
06/19–09/19	*H.000303.6- Danziger Bridge Repair, Orleans Parish, LA- Surveyor for Topographic and Monitoring survey and laser scanning of Danziger bridge. This survey is necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge. This project included utilizing LiDAR data.*
01/12-12/20	*H.012308- Cook Road Improvements, Livingston Parish, LA – Surveyor for Topographic and Right-of-Way surveys for this project that designed improvements to an existing section of two lane roadway and an unimproved area with the construction of a four (4) lane boulevard section from LA Hwy 16 (Pete's Hwy) to LA Hwy 1026 (Juban Road), along with several bridges.*
05/17-10/17	*H.013052- LA 442 Tangipahoa River Bridge Replacement, Tangipahoa Parish, LA- Surveyor to provide topographic surveying for the LA 442 bridge over the Tangipahoa River. The survey included numerous cross-section surveys upstream and downstream of the bridge, as well as the along the bridge fascia.*
01/13-03/13	*H.009250 – I-10: Highland Road to LA 73 – East Baton Rouge and Ascension Parishes, LA – LA DOTD – Survey Manager for the topographic survey of approximately 7.0 miles to widen the interstate.*
10/13-10/14	*H.002365.5 – LA 63: Bridges near Bluff Creek – East Feliciana Parish, LA – LA DOTD – Provided topographic surveys in preparation for bridge replacements with drainage structures along three portions of the existing highway including utility location and depths. Finished floor elevations of all buildings that fall within the survey limits were determined.*
10/17-03/20	*Nelson Road Extension and Bridge Topographic Survey – Surveyor responsible for topographic survey services North of Contraband Bayou for LA DOTD. Included in this work was a survey performed utilizing traditional methods for the Nelson Road Extension across Contraband Bayou to West Sallier Street.*
03/21 – 12/21	*MOVEBR Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA –Surveyor for this project providing topographic surveying services. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.*
05/21 – 12/22	*H.003931 Calcasieu River Bridge (HBI) – Calcasieu Parish, LA – Surveyor for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.*

Firm employed by	Forte and Tablada, Inc.		
Name	**Rachel Waldroup, P.L.S.**	Years of relevant experience with this employer	8
Title	Surveyor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	University of Louisiana at Lafayette / BS Environment Science with a GIS Concentration / 2020 South Louisiana Community College / AAS Civil, Surveying, and Mapping Technology / 2015		
Active registration number / state / expiration date	5277 / LA/ 09/30/2024		
Year registered	2022	Discipline	Land Surveying
Contract role(s) / brief description of responsibilities	Professional Land Surveyor		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/21 – Ongoing	*IDIQ Contract No. 4400021532 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07 – PLS performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LA DOTD.*
06/21 – Ongoing	*H.014219, H.014222, H.014231, H.0142636, H.014228 – Rural Bridge Replacement Initiative Phase II; 5 State Project Numbers (20 Structures) in Districts 04 and 05 – CADD Technician providing topographic surveying services and right-of-way mapping services of 20 bridges in Louisiana. PLS performing property surveys and establishing existing right-of-way for 5 state project numbers.*
08/14 – Ongoing	*H.004273.5 I-49 Connector – Lafayette Parish, LA – CADD Technician providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.*
05/21 – 12/22	*H.003931 Calcasieu River Bridge (HBI) – Calcasieu Parish, LA – CADD Technician and PLS for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.*
08/20 – 03/22	*H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990 – Rural Bridge Replacement Initiative Phase I; 7 State Projects Numbers (22 Structures) in Districts 04, 05, 08 and 58 – CADD Technician providing topographic surveying services and right-of-way mapping services of 22 bridges in Louisiana.*
03/21 – 12/21	*MOVEBR Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA –CADD Technician for this project providing topographic surveying services. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.*
04/21 – 06/21	*H.014628 LA 397 Turn Lanes @ Rice Mill – Calcasieu Parish, LA –CADD Technician for this project providing topographic surveying services, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.*
08/19 – 01/20	*H.011670 – I-10/ Loyola Interchange Improvements, Kenner, LA – Jefferson Parish, LA –CADD Technician for this project providing Topographic Survey, Right-of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.*
01/18 – 6/19	*H.004100 – I-10 (LA 415 to Essen Lane on I-10 and I-12) – East and West Baton Rouge Parishes – CADD technician providing topographic surveying services. The project spans from the LSU lakes to Essen Lane on I-10 and I-12.*

11/18 – 04/19	*LA 327 Spur: Staring Lane Ext. Route LA 327-S – East Baton Rouge Parish, LA – CADD Technician providing topographic survey for this project in East Baton Rouge Parish, between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.*

Firm employed by	Forte and Tablada, Inc.				
Name	**Philip Koch, P.L.S.**		Years of relevant experience with this employer	5	
Title	Surveyor		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			B.S. / 2008 / Business Management		
Active registration number / state / expiration date			5296 / LA / 03/31/2025		
Year registered	2022	Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities			Professional Land Surveyor		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/23 – 02/23	*LA1 Intracoastal Bridge Replacement, Port Allen, LA. LADOTD. Served as Lead Survey Technician for monitoring survey. Reestablish control from original contractor and created new control to monitor four bents on the LA1 Bridge. Established baseline for future monitoring of bridge by shooting elevations of footings and top of bent caps. Forte and Tablada was retained by LA DOTD to perform a bridge monitoring survey. Settlement occurred on several of the bridge piers and the department would like to have a more comprehensive understanding of the settlement and moving issues.*
06/21 – 01/23	*Amite River and Tributaries – Comite River Diversion Project, Zachary, LA. Lead Survey Technician on McHugh Road Bridge Construction. Established control on site, created monitoring points, performed QA/QC cross sections on canal.*
05/18-12/18	*Port Allen Interchange Bridge Monitoring, Port Allen, LA. Contractor installed concrete barriers next to the railroad interchange under the Mississippi River Bridge. Forte and Tablada was tasked to ensure construction did not compromise bridge bents. Daily shot targets on several bents and piles for verification.*
01/20 – 07/20	*East Baton Rouge Stormwater Masterplan , East Baton Rouge Parish, LA. Survey Technician for hydrographic surveying of bayous and creeks located within East Baton Rouge Parish for the EBR Stormwater Masterplan. The work consisted of establishing cross-sections and stream bed profiles along their length as well as locating over 14,000 subsurface structures for the purposes of hydraulic modeling.*
08/19-01/20	*H.011670-I-10/Loyola Interchange Improvements- Kenner, LA- Field Technician for Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.*
11/19 – 01/20	*Walker City-Wide Drainage Study, Walker, LA. City of Walker. Lead Survey Technician responsible for numerous topographic and waterway surveys for several bridges, streams, creeks, and tributaries to evaluate existing drainage issues as part of a city-wide drainage study.*
01/21 – 03/21	*Crestwood Drive, 11th St., & North St. Drainage Topographic and Right of Way Survey, St. Tammany Parish, LA. Lead Survey Technician. Provided a topographic and property boundary survey, for the Crestwood Drive, 11th Street, and North Street corridors. Provided right of way maps showing property ownership, servitudes, and public Right of ways for the purposes of acquiring drainage servitudes along these corridors to maintain and potentially improve the drainage in these areas.*

04/18-02/23	*H.004273.5 I-49 Connector – Lafayette Parish, LA – LA DOTD –Survey Technician responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.*
10/18 – 10/18	*H.012343 Sunshine Bridge Damage Survey, St. James Parish. LADOTD. Field Technician responsible for establishing control on and near the Sunshine Bridge to use survey and laser scanning methods to monitor the damage on the bridge. This project included utilizing LiDAR data.*
01/19 – 02/19	*Benton Lane Improvements, Denham Springs, LA. Field Technician responsible for topographical survey of 0.467 miles of road located on Benton Lane from its junction with Route US 190 to its junction with Route LA 1032.*
07/18-08/18	*Peak Lane Improvements, Walker, LA. Field Technician responsible for topographical survey of 0.468 miles of road on Peak Lane from its junction with Route US 190 (Florida Boulevard) to its junction with Route LA 1027 (Burgess Avenue).*
05/18-07/18	*Superdome, New Orleans, LA – Party Chief – Set control network for laser scanners*

Firm employed by	Forte and Tablada, Inc.				
Name	**Tommy Lake**		Years of relevant experience with this employer	6	
Title	Party Chief		Years of relevant experience with other employer(s)	29	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date					
Year registered		Discipline			
Contract role(s) / brief description of responsibilities	Survey Party Chief				

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/23 – 02/23	*LA1 Intracoastal Bridge Replacement, Port Allen, LA. Party Chief for monitoring survey. Reestablish control from original contractor and created new control to monitor four bents on the LA1 Bridge. Established baseline for future monitoring of bridge by shooting elevations of footings and top of bent caps. Forte and Tablada was retained by LA DOTD to perform a bridge monitoring survey. Settlement occurred on several of the bridge piers and the department would like to have a more comprehensive understanding of the settlement and moving issues.*
04/21-06/21	*H.014628 LA 397 Turn Lanes @ Rice Mill - Party Chief for this project providing a topographic survey, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.*
06-21-Ongoing	*H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II (20 Structures in Districts 04 and 05 - Party Chief for right of way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing right of way location determination and right of way mapping. The right of way maps were performed in accordance with state regulations and LA DOTD requirements.*
01/20-10/20	*H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415- West Baton Rouge & Iberville Parishes- Party Chief for complete topographic survey, approximately 18.3 miles, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.*
08/19-01/20	*H.011670-I-10/Loyola Interchange Improvements- Kenner, LA- Party chief for Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.*
11/16-01/18	*East Baton Rouge Computerized Traffic Signals-Phase VB, East Baton Rouge Parish, LA – Party Chief for survey and mapping of eight intersections in Baton Rouge for the construction and installation of new computerized traffic synchronization equipment and components.*
06/20-Ongoing	*H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures) in Districts 04, 05, 08 and 58 – Party Chief for topographic surveying of 22 bridges in Louisiana.*
01/18-06/19	*H.004100- I-10 (LA 415 to Essen Lane on I-10 and I-12)- East and West Baton Rouge Parishes- LA DOTD- Party Chief for topographic survey of the work between LSU lakes and Essen Lane.*
02/17-Ongoing	*H.004273.5 I-49 Connector – Lafayette Parish, LA – LA DOTD – Party chief responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.*
02/17-03/18	*H.010753.5- US 90 / I-310 Interchange, St. Charles Parish, LA- Party Chief for topographic surveying and 3-D laser scanning at the intersection of US-90 and I-310 in St. Charles Parish.*
05/17-10/18	*H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey- Plaquemines Parish, LA- Party Chief for comprehensive topographic surveying services for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.*
10/18-02/19	*H.012343- Sunshine Bridge Damage Survey- Party Chief responsible for establishing control on and near the Sunshine Bridge to use survey*

	and laser scanning methods to monitor the damage on the bridge. This project included utilizing LiDAR data.
06/19-09/19	*H.000303.6- Danziger Bridge Repair, Orleans Parish, LA- Party Chief for Topographic and Monitoring survey and laser scanning of Danziger bridge. This survey is necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge. This project included utilizing LiDAR data.*
11/19-12/20	*H.012083 -Calcasieu River Bridge Investigation, Calcasieu Parish, LA- Party Chief for services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, mobile Lidar was done for future planning.*
09/17 – 12/19	*S.P. No. H.011808.5- Palmetto Co. Canal Bridge- St. Landry Parish, LA- Party Chief to provide property surveys, title take- offs, and right-of-way map services for the removal and replacement of a timber trestle bridge that spans Bayou Des Glaises, located along La. Hwy. 10 in St. Landry Parish near the town of Palmetto, La.*
05/17-10/17	*H.013052 -LA 442 Tangipahoa River Bridge Replacement, Tangipahoa Parish, LA- Party Chief to provide topographic surveying for the LA 442 bridge over the Tangipahoa River. The survey included numerous cross-section surveys upstream and downstream of the bridge, as well as the along the bridge fascia.*
09/18-11/20	*Nelson Road Extension - LA DOTD - South Louisiana Survey Retainer – Party Chief for the property survey and right of way map. This project was for the construction of a of a new route connecting Nelson Road to the port in Lake Charles. The work consisted of conducting field and office analysis to determine the existing right of way and produce a set of right of way maps, according to LA DOTD specifications, for acquisition of parcels required for construction.*
01/21-12/21	*LA 327 Spur: Staring Lane Extension Route LA 327 - East Baton Rouge Parish, LA – Party Chief providing topographic survey for this project in East Baton Rouge Parish, between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.*
03/21 – 12/21	*MOVEBR Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA –Party Chief for this project providing topographic surveying services. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.*
05/21 – 12/22	*H.003931 Calcasieu River Bridge (HBI) – Calcasieu Parish, LA – Party Chief for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.*

Firm employed by	Forte and Tablada, Inc.		
Name	**John Tullier**	Years of relevant experience with this employer	2
Title	Party Chief	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities	Party Chief		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/20-12/20	*4400017597 DOTD Rural Bridge Replacement – Party Chief for the topographic survey. This project was for design of multiple bridge replacements throughout south Louisiana. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
01/18-04/20	*H.004100 I-10: LA 415 to Essen Lane - Party Chief for the topographic survey and 3D Mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
04/20-11/20	*H.000688 US 11 Norfolk Southern RR Overpass - Party Chief for the topographic survey and 3D Mobile laser scanning. This project was for the design of a new US 11 overpass over Norfolk Southern Railroad. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
02/20-08/20	*H.010652 LA 73: US 61 (Airline) to Essen Lane - Party Chief for the topographic survey and 3D Mobile laser scanning. This project was for the design of improvements to Jefferson Highway from Airline to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all drainage required along with finished floor elevations of all buildings that fall within the survey limits.*
06/19-08/19	*H.004791 La 232 Belle Chasse Bridge - Party Chief for the topographic survey and laser scanning. This project was additional work for the design of a bridge near the Belle Chasse Tunnel. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
04/19-08/19	*H.005121 La 1 / La 415 Connector - Party Chief for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of a new route connecting LA 1 to La 415, over the Intercoastal Waterway in West Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*

05/18-11/18	*I-10: Loyola Interchange Improvements - Party Chief for the control survey, utility survey and 3D mobile laser scanning. This project was for the design of new exit for the New Orleans Airport. The work consisted of completing a utility and control survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths that fell within the survey limits.*
05/18-04/19	*H.012591 I-10 Paris Road Lake Pontchartrain - Party Chief for the topographic survey, 3D Mobile laser scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
03/17-03/18	*H004987 US 190 Collins Blvd - Party Chief for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
06/16-02/17	*Veteran Blvd. Lighting - Party Chief for the GIS survey and 3D laser scanning. This project was for the design of a lighting system along Veterans Blvd in New Orleans. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*
06/16-02/17	*H.000263 Chef Menteur Pass Bridge – Party Chief for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.*

Firm employed by	Forte and Tablada, Inc.				
Name	**Jeremy Cormier, L.S.I.**		Years of relevant experience with this employer	6	
Title	Land Surveyor Intern		Years of relevant experience with other employer(s)	<1	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date		771 / LA / 03/31/2024			
Year registered	2023	Discipline	Land Surveyor Intern		
Contract role(s) / brief description of responsibilities		Senior CAD Tech			

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/21 - Ongoing	*H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II (40 Structures in Districts 04 and 05 – CADD Technician*
02/19 - Ongoing	*H.004273.5 -DOTD I-49 Connector – CADD Technician*
05/21 – 12/22	*H.003931 Calcasieu River Bridge (HBI) – CADD Work*
04/21 - 06-21	*H.014628 LA 397 Turn Lanes @ Rice Mill – CADD Technician for this project providing a topographic survey, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.*
03/21 – 12/21	*MOVEBR Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA –CADD Work*
03/20 – 06/20	*I-10 Surveys for Grade Raisings – Survey (Party Chief) and CADD Work*
12/19 – 09/20	*H.011970- Bayou Terrebonne Bridges –CADD Technician for the Bayou Terrebonne bridge along with the entire intersection and adjacent roads.*
11/19 – 12/20	*H.012083- Calcasieu River Bridge Investigation, Calcasieu Parish, LA- CADD Tech*
06/20 - Ongoing	*H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures) in Districts 04, 05, 08 and 58 – CADD Technician*
01/20 - 10/20	*H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415- West Baton Rouge & Iberville Parishes- CADD Technician for complete topographic survey, approximately 18.3 miles, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.*
08/19-01/20	*H.011670 - I-10/ Loyola Interchange Improvements, Kenner, LA- CAD Technician for this project providing Topographic Survey, Right-of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.*
10/18-02/19	*H.012343- Sunshine Bridge Damage Survey – Survey (Party Chief) and CADD Work*
12/16 – 10/18	*Shintech Ethane Cracker Toyo – Survey Work (Party Chief)*
11/18 – 12/18	*H.004100- LA 415 to Split Survey (I-10) – Survey Work (Party Chief)*
12/18 – 03/19	*H.011684.5 - LA 327 Spur – Staring Lane Extension – Survey (Party Chief) and CADD Technician*

Firm employed by	Forte and Tablada, Inc.				
Name	**Trenton Iglehart**		Years of relevant experience with this employer	.5	
Title	Senior CAD Tech		Years of relevant experience with other employer(s)	23	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date					
Year registered		Discipline			
Contract role(s) / brief description of responsibilities	Senior CAD Tech				

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/20-03/23	*Contract No. 4400017711: LA DOTD - Retainer Contract for Surveying Services, Statewide - H.014752.5 LA 3021 Dual Turn Lanes @ LA 39, H.009300.5 Hooper Road Widening, H.12685.5 LA 385 Ryan St Intersection IMPRS (Mobile Lidar scanning and Topodot extraction) – CADD Technician*
01/20-03/23	*H012232 LA 3064 TO LA 1248 PHASE II MOVEBR - Sherwood Forest Extension–CADD Technician for Topographic Surveying, Property Surveys, Right-of-Way Maps, and Title Take-Offs*
01/20-03/23	*MoveBR Projects - Nicholson Segment 2, Lee Drive, Jefferson @ Bluebonnet, 12-CS-HC-0015 LA 427 Perkins Rd (Seigan To Pecue), 20-Cp-Hc-0008 Midway Drive (Picardy Ave. To Constantin Blvd.) - CADD Technician for Topographic Surveying, Property Surveys, Right-of-Way Maps, and Title Take-Offs*
07/17-07/22	*Contract No. 4400010586: LA DOTD - Retainer Contract for Surveying Services, Statewide - CADD Technician for Topographic Survey*
07/17-07/22	*Contract No. 4400009386: LA DOTD - Retainer Contract for Surveying Services, Statewide - CADD Technician for Topographic Survey*
01/17-01/17	*Contract No.: 4400008173: LA DOTD - H.001779 – Red River Bridge at Jimmie Davis Highway- CADD Technician for Topographic Survey*
02/17-02/17	*H.007020 – Historic American Engineering Record(HAER) Historic Bridge Laser Scans - CADD Technician for Topographic Survey*
05/16-05/16	*Contract No. 4400007021: LA DOTD - H.000263 – Chef Menteur Pass Bridge and Approaches - CADD Technician for Topographic Survey*
12/15-12-18	*Contract No. 4400006526: LA DOTD - Retainer Contract for Surveying Services, Statewide - H.005403 – Hooper Rd Extension, H.011152.5 & H.011137.5 – I-12 LA 21 TO LA 59 SUP, H.010962 – I-10 Cable Barrier (Lafayette-Acadia) – CADD Technician for Topographic Survey*

Firm employed by	Forte and Tablada, Inc.				
Name	**Jordan Pearson, P.E.**		Years of relevant experience with this employer	10	
Title	Senior Vice President		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization			B.S.C.E. / 2009 / Civil Engineering		
Active registration number / state / expiration date			38621 / Louisiana / 09/30/2024		
Year registered	2014	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Project 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 years of experience specified in the applicable MPR(s).
01/15-10/18	*U.S. Hwy 80 Improvements Traffic St. to Kelly Ave. Bossier City, LA - Project Manager for this project which included approximately 4,000 linear feet of pavement and drainage improvements. Our scope of services included topographic surveys, right-of-way plats, roadway plans, which included a major round-about. The project also included approximately 4,500 linear feet of water mains (8" to 30").*
09/17-11/20	*Linton Road Bridge over Black Bayou Reservoir, Bossier Parish, Louisiana - Project Engineer for replacement of bridge. New cast-in-place concrete bridge, 220' long, 40' clear roadway with (11) – 20' slab spans and pile bents with 24" PPC piles. Widened 1,030' of roadway embankment across reservoir, with concrete retaining walls each side.*
01/15-12/18	*Bossier Downtown Re-Envisioning, Bossier City, LA - Project Engineer for this project that "re-envisioned" the area by adding new infrastructure and landscaping to a deteriorating section of Old Bossier City. The project included geometric design, grading, drainage, paving, utilities, and stormwater detention including "Green Design." Traffic lanes were narrowed to add a designated bicycle lane and pedestrian walkways. Stormwater planters and permeable pavers were incorporated to control stormwater runoff. A public plaza area with decorative pavement and overhead shade structures was also included in the project.*
06/16-02/20	*Sligo Road Bridge over Foxskin Bayou – Bossier Parish, LA – Project Engineer for roadway and bridge design for replacement of new concrete bridge, 180' long, 30' clear roadway with (9) – 20' precast concrete slab spans and precast concrete pile bents with 16" PPC piles.*
10/19-07/21	*Johnson Koran Road Bridge over Foxskin Bayou, Bossier Parish, LA – Project Manager for the roadway and bridge design for replacement of this new concrete bridge, 140' long, 30' clear roadway with (7) – 20' precast concrete slab spans and precast concrete pile bents with 18" PPC piles.*

Firm employed by	Forte and Tablada, Inc.				
Name	**Kresten Brown, P.E.**		Years of relevant experience with this employer	12	
Title	Project Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		B.S. / 2011 / Civil Engineering			
Active registration number / state / expiration date		39998 / Louisiana / 03/31/2024			
Year registered	2015	Discipline	Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities		Project 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 years of experience specified in the applicable MPR(s).
01/15-Ongoing	*Cook Road Improvements, Livingston Parish, LA –* *Project Engineer and Manager for Line and Grade Study, topographic surveying, environmental services, Right-of-Way surveying and Right-of-Way plans, design engineering, and construction plan for the proposed construction of a 4-lane boulevard with sidewalks and subsurface drainage for a connection between Juban Road (LA Hwy 1026) and Pete's Highway (LA Hwy 16). Design for improvements was compete January 2022.*
09/18- Ongoing	*LA 447 Access Management (I-12 – US 190), Livingston Parish, LA –* *Project Engineer for this project that developed a conceptual layout for the City of Walker as an alternative to an outdated DOTD study to remove the center turn lane from the five-lane section throughout this heavily traveled commercial corridor.*
10/19-09/21	*City-Wide Drainage Study and Improvements, Walker, LA –* *Project Engineer for the study of 3 regions within the City known to have significant drainage issues. The project goal was to identify minor issues that can be addressed by City employees as well as begin designing and planning for larger watershed improvement projects.*
01/15-Ongoing	*West Colyell Creek Drainage Improvements, Livingston Parish, LA-* *Project Engineer responsible for completing the hydraulic study, preparing bid documents (drawings and specifications), and obtaining all necessary permits to widen and realign the creek. Services will include construction administration services, construction observation, and inspection services for this HMGP funded project.*
01/14-01/18	*South Satsuma Bridge Replacement, Livingston Parish, LA-* *Project Engineer for engineering design services to replace a 100ft wooden span bridge with 140 foot concrete bridge under the Hazard Mitigation Grant Program with Livingston Parish. The bridge was causing upstream flooding during low frequency rain events and needed to be replaced. Forte and Tablada provided topographic surveying, engineering, and hydraulic analysis services for the HMGP bridge replacement as well as construction management services.*
06/11-Ongoing	*Holden Sidewalk Program, Livingston Parish, LA-* *Project engineer for new construction and rehabilitation of existing sidewalks along LA Highway 190 and LA Highway 441. Funded by the LaDOTD Enhancement Fund. Provided Engineering for construction plans and specifications for ADA compliant sidewalk additions and improvements. This project included CE&I services utilizing the federal/DOTD process.*
01/13-01/15	*SRTS Northside Sidewalk, Denham Springs, LA –* *Project engineer to implement ADA compliant sidewalks and crosswalks on four streets surrounding Northside Elementary School in Denham Springs. This project included CE&I services utilizing the federal/DOTD process.*
09/14-Ongoing	*Forrest Delatte Road Improvements, Livingston Parish, LA-* *Project Engineer responsible for construction observation and the Stage 0 services including surveying, environmental, and engineering design for the roadway improvements which include patching, overlay, and closed drainage to support higher traffic volumes and lateral support of the pavement.*

01/12-01/18	*Walker Industrial Park, Phases I, II, and III, Walker, LA –* *Project Engineer assisting with the road design for the rehabilitation and reconstruction of Walker Industrial Park Road Extension Project. Engineer responsible for design conformity and construction administration of the roadway and utility project to extend the existing industrial park roadway through to US 190 to create the industrial park loop.*
01/14-01/17	*Sherwood Forest/Goodwood Boulevard Sewer Pipeline, Baton Rouge, LA-* *Mr. Brown served as project engineer during the construction administration of the project, which included sidewalks and pipeline replacements. Engineer Intern for the design of preliminary and final plans of approximately 13,500 lf of gravity sewer pipeline replacement, ranging from 10" to 36" and force main sewer lines of approximately 11,000 lf pipeline replacement, 8" to 18" in diameter. In addition, several ADA compliant sidewalks were designed for the site.*

Firm employed by	Forte and Tablada, Inc.				
Name	**Adrian Boyd Holmes, P.E.**		Years of relevant experience with this employer	1	
Title	Supervisor Engineer		Years of relevant experience with other employer(s)	30	
Degree(s) / Years / Specialization			B.S. / 1992 / LSU / Civil Engineering ATSSA Traffic Control Technician & Supervisor Certification/ Oct 2009 ATSSA Traffic Control Supervisor Refresher Certification / Nov 2021 ATSSA Flagger Certification / Dec 2021		
Active registration number / state / expiration date			PE.27452 / LA / 09/30/2023		
Year registered	1997	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Project Manager/Chief Design 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 years of experience specified in the applicable MPR(s).
01/93 - Present	*Boyd has served as Project Manager/Design Engineer on fifty-one (51) Off-System Bridge Projects that included one hundred five (105) bridge sites. Boyd also served as Project Manager/Design Engineer on five (5) bridge replacement projects in East Baton Rouge Parish and eight (8) bridge replacement projects in Ascension Parish.*
11/18 - 03/21	*Off-System Highway Bridge Program, LaSalle Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.013093) One (1) Bridge. (2018)*
11/18 - 11/20	*Off-System Highway Bridge Program, Morehouse Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.013118) One (1) Bridge. (2018)*
11/18 - Present	*Off-System Highway Bridge Program, Ouachita Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.013137) Two (2) Bridges. (2018)*
11/20 - Present	*Off-System Highway Bridge Program, Vermilion Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.014223) One (1) Bridge. (2020)*
11/20 - Present	*Off-System Highway Bridge Program, Rapides Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.014261) One (1) Bridge. (2020)*
11/20 - Present	*Off-System Highway Bridge Program, East Baton Rouge Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.014318) Two (2) Bridges. (2020)*
03/14 – 12/17	*Off-System Highway Bridge Program, Natchitoches Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.010943) Three (3) Bridges. (2014)*
06/15 – 03/18	*Off-System Highway Bridge Program, Avoyelles Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.011522) Two (2) Bridges. (2015)*
10/15 – 12/17	*Off-System Highway Bridge Program, Acadia Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.011541) One (1) Bridge. (2015)*
10/15 – 05/17	*Off-System Highway Bridge Program, Iberia Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.011542) One (1) Bridge. (2015)*
10/15 – 08/17	*Off-System Highway Bridge Program, Morehouse Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.011532) One (1) Bridge. (2015)*
09/15 – 01/18	*Off-System Highway Bridge Program, West Carroll Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.011529) Two (2) Bridges. (2015)*
06/16 – 03/19	*Off-System Highway Bridge Program, St. Bernard Parish – Responsibilities included topographic survey, preliminary and final plans, and*

	hydraulic reports. S.P.#(H.012305) One (1) Bridge. (2016)
06/17 – 12/20	*Off-System Highway Bridge Program, Lafayette Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.012880) One (1) Bridge. (2017)*
11/11 – 10/12	*Off-System Highway Bridge Program, Rapides Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.009135) One (1) Bridge. (2011)*
01/13 – 08/14	*Off-System Highway Bridge Program, Bossier Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.009945) One (1) Bridge. (2012)*
01/13 – 02/16	*Off-System Highway Bridge Program, West Carroll Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.009981) Two (2) Bridges. (2012)*
04/13 – 08/15	*Off-System Highway Bridge Program, St. Landry Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.010034 & H.010035) Four (4) Bridges. (2013)*
06/13 – 08/15	*Off-System Highway Bridge Program, Tangipahoa Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.010061 & H.010062) Four (4) Bridges. (2013)*
01/14 – 12/17	*Off-System Highway Bridge Program, East Feliciana Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.010562) Two (2) Bridges. (2013)*
02/14 – 06/17	*Off-System Highway Bridge Program, East Baton Rouge Parish – Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.010660) Three (3) Bridges. (2013)*
12/10 – 07/12	*Off-System Highway Bridge Program, Tensas Parish - Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#700-54-0105 (H.005023) One (1) Bridge. (2010)*
03/11 – 10/12	*Off-System Highway Bridge Program, Concordia Parish - Responsibilities included topographic survey, preliminary and final plans, and hydraulic reports. S.P.#700-15-0109 (H.004010.5) One (1) Bridge. (2011)*

Firm employed by	Forte and Tablada, Inc.				
Name	**Drake Cowart, P.E.**		Years of relevant experience with this employer	3.5	
Title	Civil Engineer		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			B.S.C.E. / 2017 / Civil Engineering		
Active registration number / state / expiration date			46223 / LA / 03/31/2024		
Year registered	2021	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Civil 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 years of experience specified in the applicable MPR(s).
01/20-Ongoing	*West Colyell Drainage Improvements, Livingston Parish, LA* *Design Engineer creating a 2D HecRAS river model for our recommended canal widening improvements and associated benefit cost analysis for the project*
10/19-09/21	*City-Wide Drainage Study and Improvements, Walker, LA* *Design engineer for the city's investigation into 3 distinct areas that they were experiencing regular events of flooding and inundation of roadways and adjacent properties. This included both small scale and large-scale drainage analysis of these areas across the city.*
03/01-01/20	*City of Walker General Engineering Services* *Analyzed and designed numerous drainage improvements across the city to help handle their drainage concerns.*
10/21-Ongoing	*City of Central Culvert Replacement Project* *Project Engineer over the design, BCA efforts, and 2D modeling of 16 culvert crossings across 4 different watersheds within the City of Central.*
04/20-07/21	*South Satsuma Culvert Replacement Project* *Hydraulic Analysis and BCA calculations on the existing culvert crossings and the proposed alternatives.*
03/22-Ongoing	*Dawson Creek Bridges* *Assisted with the hydraulic design and BCA portions of the project.*
10/21-Ongoing	*City of Central Master Drainage Plan* *Assisted with initial setup of city wide 2D drainage model and reporting efforts for the cities drainage plan.*
10/21-Ongoing	*City of Central Drainage investigation* *Performed assessment and inspection of current conditions of many of the culverts, bridges, and drainage canals after the 2016 flood.*

Firm employed by	Forte and Tablada, Inc.				
Name	**Dexter L. Grogan, III, P.E.**		Years of relevant experience with this employer	9	
Title	Senior Project Engineer		Years of relevant experience with other employer(s)	23	
Degree(s) / Years / Specialization		B.S.C.E. / 1981 / Civil Engineering			
Active registration number / state / expiration date		23431 / LA / 03/31/2024			
Year registered	1989	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities		Project 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 years of experience specified in the applicable MPR(s).
08/20 - Ongoing	*Off-System Bridge Load Rating Retainer – LA DOTD State-Wide Contract - Assisting with Load Rating Reports for slab span bridges and determining factored moment capacity of tee beam bridges.*
07/19 - Ongoing	*Caplis Sligo Road Bridge over Red Chute Bayou, Bossier Parish, LA – Roadway and bridge design for replacement of bridge. New concrete bridge, 200' long, 30' clear roadway with (5) – 40' spans with Type LG-25 girders, pile bents with 24" and 16" PPC piles.*
10/19 – 07/21	*Johnson Koran Road Bridge over Foxskin Bayou, Bossier Parish, LA – Roadway and bridge design for replacement of bridge. New concrete bridge, 140' long, 30' clear roadway with (7) – 20' precast concrete slab spans and precast concrete pile bents with 18" PPC piles.*
01/17 - 7/22	*Linton Road over Black Bayou Reservoir, Bossier Parish LA - LADOTD - Roadway and bridge design for replacement of bridge. New cast-in-place concrete bridge, 220' long, 40' clear roadway with (11) – 20' slab spans and pile bents with 24" PPC piles. Widened 1,030' of roadway embankment across reservoir, with concrete retaining walls each side.*
06/16 - 02/20	*Sligo Road Bridge over Foxskin Bayou, Bossier Parish LA – Roadway and bridge design for replacement of bridge. New concrete bridge, 180' long, 30' clear roadway with (9) – 20' precast concrete slab spans and precast concrete pile bents with 16" PPC piles.*
11/15 - 05/17	*Bridge Replacement on Blanchard-Furrh Road – Caddo Parish, LA – Roadway and bridge design for replacement of bridges over Shettleworth Bayou and Piney Bayou. Each bridge is 100' long, 28' clear roadway, with (5)-20' precast concrete slab spans and precast concrete pile bents with 16" PPC piles.*
02/15 - 09/15	*Westdale Road Bridge over Bayou Pierre – DeSoto Parish, LA – Project included the scanning, inspection, and analysis for the rehabilitation of the bridge. The project was governed by the current edition of the LA DOTD Standard Specifications for Roads and Bridges.*
06/12 - 02/14	*I-220 Bridge Widening over Russell Road – Caddo Parish, LA – LA DOTD– Bridge Design for widening of two bridges (eastbound and westbound). Each bridge with steel plate girders, with (2)-89' spans, (1)-142'-6" center span, new column bents with 66" drilled shafts, extended end bents with 36" drilled shafts. Widened/replaced total width of 26'-6" for each bridge, for 53'-6" total clear roadway for each bridge.*
05/10 - 09/10	*Poole Road Bridge Over Flat River – Bossier Parish, LA – Roadway and bridge design for replacement of bridge. 262'-6" long, (2)-65'-6" spans with Type III girder, (1)-131-6" center span with Type BT-72 girders, 28' clear roadway, pile bents with 30" and 16" piles.*
02/10 - 06/12	*Murphy Street Bridge Over KCS Railroad – Caddo Parish, LA – LA DOTD – Roadway and bridge design for replacement of city street bridge over railroad tracks. One four (4) lane bridge with sidewalks, 257' long with steel beam girders, (2) – 77' spans, (1) –103' center span, 52' clear roadway, pile bents with 24" and 30" PPC piles, "pile bent" with 36" drilled shafts.*
12/01 - 10/04	*Industrial Loop Overpass, Inner Loop Expressway (LA 3132) – Caddo Parish, LA – LA DOTD – Roadway and bridge design plans for the extension of the Inner Loop. Included two bridges (eastbound and westbound), each 655'-6" long, (8) – 65'-6" spans with Type III girders, (1) – 131'-6" span with Type BT-72 girders, 40' clear roadway, pile bents with 24" PPC piles, column bents each side of 131' 6" span.*

Firm employed by Dave Rambaran Geosciences, LLC			
Name	**Dave Rambaran, PE**	Years of experience with this firm/employer	11.5
Title	Principal / Sr. Geotechnical Engineer	Years of experience with other firm(s)/employer(s)	16.5

Degree(s) / Years / Specialization			BS / 1995/ Civil Engineering
Active registration number / state / expiration date			PE No. 31941 / LA / 03-31-2024
Year registered	2005	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Supervising 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).
01/14 – 9/2020	**Twelve Mile Bayou Pump Station Modifications, Shreveport, LA:** Geotechnical investigation was performed at the existing Twelve Mile Bayou Pump Station site and access road in Shreveport, Louisiana. The investigation included soil boring and laboratory testing, visual observation of the sheet pile wall to determine likely cause of failure, and recommendations for the foundation of the surge tank, reinforced concrete retaining wall recommendations, foundation and wall design parameters for new meter station concrete vault, and pavement recommendations. Also, a seismic study was performed for the site. I served as the Senior Geotechnical Engineer for this project. Consultation, Construction Testing and Inspection to observe construction, test concrete, soils and pile placement; also gave professional opinions of materials or conditions and provide opinions for remedial actions or alternate methods as may be needed to facilitate the contractors work.
10/14 – 09/15	**Bentler Steel / Tube Sammy Dispatch Lay Down Area, Caddo Bossier Port, Shreveport, LA:** A geotechnical investigation was performed to provide a pavement section for excessively heavy traffic and wheel loading. I served as the Senior Geotechnical Engineer for this project.
12/15 – 12/18	**Rehabilitation of Taxiway A, D, J, M & Q, Also G, H, P, & R DTA, Shreveport, LA:** Performed boring to provide a geotechnical boring log with CBR logs, moisture profiles and determine general subsurface soils at the location provided. Information was provided for FAARFIELD airport pavement design.
12/17 – 12/22	**Runway & Taxiway Shift & Extension 5-23 Shreveport DTA, Shreveport, LA:** Geotechnical borings with CBR logs, moisture profiles, and CBR profiles for the above referenced site. Our recommendations included pavement design and site grading considerations. Consolidation analysis and flooding impacts. Environmental impact of use of onsite materials and savings. Information was provided for FAARFIELD airport pavement design. QA Testing services. RPR inspection and monitoring.
01/16 – 12/22	**Task Order 1-112/ 1-129/ 1-106/ 1-110/ 1-114/ 1-135/ 1-132/ 1-152/ 1-153/ 1-154/ MSA #02, Project 14-F006, Shreveport, LA:** A geotechnical investigation was performed for this project consisting of 7 auger borings for piping and manholes. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for suitable piping/ manhole material, type, class, etc.; suitable installation techniques; and testing and commissioning requirements. Mr. Rambaran served as the Senior Geotechnical Engineer for this project.
01/16 – 09/18	**Huntington Lift Station Access Road & Bridge Crossing, Shreveport, LA:** A geotechnical investigation was performed for this project consisting of a new bridge and crossing and access road of 1,200 and 1,300 leaner feet. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for the deep foundation with active and passive earth pressures, and pavement recommendations. Mr. Rambaran served as the Senior Geotechnical Engineer for this project. QA Testing & Onsite observation during construction. Driven Pile program Load Testing and conformance monitoring
12/16 – 12/18	**Barksdale Air Force Base Storm Sewer Revitalization & Replacement, BAFB, LA:** Geotechnical Engineer of Record for Design Build QC & Design. Geotechnical investigation for unknown subsurface conditions was performed for this project. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for the utility foundation, bedding. Mr. Rambaran served as QC and Senior Geotechnical Engineer for this project. Concrete, soil testing. Dewatering system recommendations.
12/19 – Present	**Barksdale Air Force Base Consolidated Communication Facility, BAFB, LA:** A geotechnical investigation was performed for three-story federal building with seismic and earthquake recommendations. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for the deep foundation with active and passive earth pressures, seismic classification, and earthquake design recommendations. Mr. Rambaran served as the Senior Geotechnical Engineer for this project. He was also the Senior Inspector of Record for project and design, review design and confirm construction procedures and products are in accordance with construction documents. He also performed

	construction testing and inspection to observe construction, test concrete, soils and pile placement; also give professional opinions of materials or conditions and provide opinions for remedial actions or alternate methods as may be needed to facilitate the contractors work.
10/19 – 08/20	**Tunneling Beck Branch Parallel Interceptor 36 to 72 inches Diameter Pipe Plano, TX:** QC Testing/ Construction Monitoring and Inspection to observe construction, test concrete/grout, soils, stone; also give professional opinions of materials or conditions and provide opinions for remedial actions or alternate methods as may be needed to facilitate the contractors work.
03/16 – 12/20	**Bridge 171, 172 & 173 Woolworth Road Caddo Parish Road & Bridge Crossing, Shreveport, LA:** Three geotechnical investigation were performed for this project consisting of a new bridge and crossing and onramp access. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for the deep foundation with active and passive earth pressures, soil supported box culvert large opening bridge crossing and pavement recommendations. Mr. Rambaran served as the Senior Geotechnical Engineer for this project.
09/18-12/20	**North Regional WWTP North Levee Repair, COS, Shreveport, LA:** Perform Geotechnical Analysis. Assign lab tests on samples collected. Make recommendations provided engineering report to address the specific project design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Verify boring logs, perform engineering analysis, slope stability analysis, and prepare geotechnical reports in compliance with the standards and specifications. Performed Slope Stability Analysis and provided respective FOS and engineering recommendations
06/22-Present	**Project #8-15 Walter O Bigby Carriageway Kelly Ave to Benton Hwy Bossier City, LA:** Provided onsite inspection and QC for the **client.** Based on contractor's completed work performing on-site inspection. During concrete placement tested fresh concrete for compliance of field placement. In accordance with required standards casting compressive strength test specimens. Laboratory Testing on Select Samples**.**
Career History	Columbus Georgia Staff Engineer 1996 to 1997; Eastern Sea Board QA Engineer/ Branch Manager 1997 to 1999; Eastern Coast & Gulf Auger Cast Pile Foundation QC & Testing Engineer 1999 to 2000; Assistant Branch Manager Staff Engineer Texas 2000 to 2004; North Louisiana Branch Manager 2004 to 2008; Branch Manager 2008 to 2011 Louisiana; Principal CEO 2011 to Present; Concrete Testing / Radiation Safety Officer, Density Gauge Operator, Deep/Shallow Foundations QA / QC; OSHA 29CFR 1910.120 HAZWOPER; Asbestos Inspector GA; ASCE Shreveport Chapter Past President 2013 & 2014; NSPE; Louisiana Engineering Society – Shreveport President 2007 & 2008; Louisiana Engineering Society – Baton Rouge Director 2007 & 2008 (member since 2004); TSPE East Texas & Waco Branch – Vice President 2000 – 2005; Ft Worth & Dallas ASCE & TSPE Member; Texas Licensed 2004

Firm employed by Dave Rambaran Geosciences, LLC			
Name	**Lloyd Hoover, PE, PG, PLS**	Years of experience with this firm/employer	1
Title	Supervising Engineer/ Engineer	Years of experience with other firm(s)/employer(s)	56

Degree(s) / Years / Specialization			BS / 1965 / Civil Engineering (Geotechnical)
Active registration number / state / expiration date			PE No. 11968 / LA / 09-30-2023; PLS No. 1946 / LA / 09-30-2023
Year registered	1969	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Senior Geotechnical 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).
03/65 – 09/68	**I-10 Sorrento to LaPlace, LA:** Field Engineer for drilling in McLeRoy Swamps. Set profiles for excavation of muck/sludge. Project was awarded Top in Last 100 Years for Highway Projects
05/65 – 12/68	**I-10 Atchafalaya Crossing:** Field Engineer-In Charge of advanced test pile program.
02/85 – 07/95	**I-49 Subsurface:** Geotechnical Engineer on various projects for I-49.
02/75 – 08/78	**Clyde Fant Parkway, Shreveport, LA:** Geotechnical engineering and construction materials engineering.
03/91 – 11/94	**I-20 Exchange and Overpass- Ruston, LA:** Geotechnical engineering.
02/08 – 11/08	**Air Cargo Facility:** Project Engineer. Performed geotechnical engineering for the design of airport pavement. Served as Project Manager for field testing. Served as Construction Materials Engineer.
03/07– 07/07	**West Partial Parallel Taxiway Project- Shreveport, Louisiana**: Project Engineer performed geotechnical engineering services for airport paving. Shreveport Airport Authority was the client.
Career History	Mr. Hoover has over 57 years of experience in geotechnical engineering, construction materials engineering and environmental engineering. He has supervised, reviewed, or performed work on over 5,000 geotechnical and environmental projects and over 4,000 construction materials engineering projects.

Firm employed by Dave Rambaran Geosciences, LLC					
Name	**William Fegley**			Years of experience with this firm/employer	1
Title	Geologist/Driller			Years of experience with other firm(s)/employer(s)	18
Degree(s) / Years / Specialization			BS / 2005 / Biology		
Active registration number / state / expiration date			License No. 0755 / LA		
Year registered	2014	Discipline	Professional Geoscientist		
Contract role(s) / brief description of responsibilities			Geologist/ Geotechnical Logging and Classification/ Driller		

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).
01/09– 12/09	**Environmental Audits, Marrero, LA:** Mr. Fegley was responsible for the audit of environmental and civil permits of an existing facility during the acquisition of a fuel terminal along the Gulf Coast and managed the site investigation and remediation at the same fuel terminal. The investigation revealed pits that had been used as recently as the 1970s during the cleaning of the tanks. Mr. Fegley conducted oversight of the remediation efforts and was able to recieve a No Further Action letter from the Louisiana Department of Environmental Quality.
08/21 – 08/21	**Phase I, Well Fields Central Louisiana and East Texas:** Mr. Fegley conducted four large scale Phase I ESAs for Oil & Gas companies during acquisition of well fields in central Louisiana and east Texas that included tank batteries, offices, compressor stations, wells, and other associated oilfield equipment. These fields were original domestic drilling projects and exhibited signs of contamination around wells and tank batteries. In each case the purchaser accepted the responsibility of the existing liabilities without further investigation.
01/08 – 01/09	**Lead Risk Assessments, Residential Structures, New Orleans, LA:** Mr. Fegley conducted lead risk assessments of residential and municipal structures in conjunction with the Louisiana Road Home Project after Hurricane Katrina. Evaluations were submitted to the lead contractor for funding disbursement.
04/18– 07/18	**UST Assessment and Removal, Springhill, LA:** Mr. Fegley conducted an assessment and closure of abandoned underground storage tanks. The tanks were removed. Closure analysis indicated elevated levels of benzene in the soil. Further evaluation under the soil precipitate leaching procedure allowed for closure of the site with a deed restriction.
Career History	Mr. Fegley has been an Environmental Professional since 2004. As a Project Manager with a regional firm, he was responsible for marketing and obtaining the Phase I, interpreting database search data (EDR Data) including topos, aerials, Sanborn maps, and City Directories, conducting the site visits, recording on-site characteristics (photos and map sketches), preparing the report, and conducting peer review. In addition to these tasks, Mr. Fegley currently prepares drawings, proposals and invoices. He has been a Lead Risk Assessor, Asbestos Supervisor, and Mold Remediation Specialist, and has conducted more than 50 Phase I ESAs throughout his career, ranging from active gas stations to former manufacturers to empty fields. Ten Phase I ESAs resulted in Phase II ESAs, all ten sites were remediated and closed. Mr. Fegley has operated six treatment systems, four with previous employers and two that are current ongoing projects. He has conducted at least a dozen Lead Risk Assessments, supervised multiple school asbestos remediation projects, and performed clearance air sampling at more than ten Mold remediation projects.

Firm employed by Dave Rambaran Geosciences, LLC					
Name	**Robert Simmons**		Years of experience with this firm/employer	7	
Title	Senior Technician/ Inspector/ Driller		Years of experience with other firm(s)/employer(s)	19	
Degree(s) / Years / Specialization			High School & Specialty Training in AASHTO Materials Testing		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Geotechnical Technician/ Supervisor/ Driller		

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).
03/16 – 12/17	**City of Shreveport Professional Services Contract for Soils & Materials Testing Laboratory, Shreveport, LA:** Observe and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Resident Project Representative (RPR) on a daily basis and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
04/09 – 10/15	**Various Wal-Mart Onsite Inspector & CMT representative in Louisiana:** Inspector and test onsite construction procedures and materials for compliance with plans and specifications
01/09 – 04/09	**Recycle Center Caddo Bossier Port, Shreveport, LA:** Observe and test onsite construction procedures and materials for compliance with plans and specifications.
05/16 – 05/16	**Broadmoor Lift Station City of Shreveport, Shreveport, LA:** Inspector and test onsite construction procedures and materials for compliance with plans and specifications.
06/08 – 09/09	**Pilgrim's Pride Manufacturing Plant, Natchitoches, LA:** Inspector and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
12/16 – 11/17	**BAFB Storm Drains, EDT, Inc., Bossier City, LA:** Perform Onsite QC inspector; density testing of backfill, fill and base course materials; storm pipes inspector; dewatering inspection.
05/15 – 06/17	**QA at SDI Reality Red Bend Crossing Retail Development Site Development Soils and Materials Testing Laboratory, Bossier City, LA:** Provide onsite Inspection & Testing
02/04 – 09/07	**Steelcase / Turnium Manufacturing Facility, Shreveport, LA:** Observe and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
01/04 – 12/09	**Various QA/QC Testing, Bossier City / Shreveport, LA:** Observe and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent / Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
11/19 – Present	**Consolidated Communication Facility Center BAFB, LA:** Inspect and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent / Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
06/19 – 03/20	**Shreveport Downtown Airport RW 5-23 Extension, Shreveport, LA:** Inspector and testing for onsite construction, procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent / Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
01/19 – 05/20	**Shreveport Regional Airport RW 6-24 Extension, Shreveport, LA:** Observe and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent / Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.

03/17 – 12/22	**COS Professional Service Contract Soils & Materials Testing Lab II, Shreveport, LA:** Observe and test onsite construction procedures and materials for compliance with plans and specifications. Coordinates with the Project Superintendent / Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
Other Qualifications	ACI Certified Level I & II / Associate RSO / HAZMAT Training / Safety Training on Construction Industrial Sites / Airport Safety Training / Inspection of Asphalt Pavement Construction / Inspection of Shallow Footings / Inspection of APG Piles/ Storm Drainage & Utilities Placement & Construction

Firm employed by Dave Rambaran Geosciences, LLC			
Name	**Varun Kumar Nagelli**	Years of experience with this firm/employer	6
Title	Professional/Engineering Aide	Years of experience with other firm(s)/employer(s)	0

Degree(s) / Years / Specialization			Bachelor of Technology/ 2014/ CE; MS/ 2016/ CE
Active registration number / state / expiration date			N/A
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities			Geotechnical Staff/ Project Manager

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).
10/19 – present	**Consolidated Communication Facility Center BAFB, LA:** Performed geotechnical investigation and recommendations for the general area. Performed pile study. pile inspection and monitoring of the Auger Cast piles and installation at the site. Associated Inspector of Record for Structural Inspections of the Structure.
01/16 – 12/22	**Task Order 1-112/ 1-129/ 1-106/ 1-110/ 1-114/ 1-135/ 1-132/ 1-152/ 1-153/ 1-154/ MSA #02, Project 14-F006, Shreveport, LA:** A geotechnical investigation was performed for this project consisting of 7 auger borings for piping and manholes. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for suitable piping/ manhole material, type, class, etc.; suitable installation techniques; and testing and commissioning requirements. Mr. Rambaran served as the Senior Geotechnical Engineer for this project.
08/17 – 12/22	**COS Professional Services Contract Soils & Material Testing Lab II, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make recommendations to the project engineer to compile engineering report to address the specific project design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Perform engineering analysis in compliance with the standards and specifications. Accurately perform various construction materials tests in accordance with applicable standards, observe work procedures and verify compliance with job specifications. Create detail reports of observations and tests data. Coordinated with project personnel and client representatives.
12/19 – 12/21	**Fern Loop Rehab Hospital, Shreveport, LA:** Performed geotechnical investigation, Phase 1 Environmental Assessment and recommendations for the general area. Performed pile study. Prepare and monitor soil testing schedules, monitor progress and ensure conformance to engineering plans, specification and construction, and safety standards. QA/QC of Field Testing & Laboratory Testing.
09/18 – 12/20	**North Regional WWTP North Levee Repair, COS, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make recommendations to the project engineer to compile engineering report to address the specific project design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Verify boring logs, perform engineering analysis, slope stability analysis, and prepare geotechnical reports in compliance with the standards and specifications. Performed Slope Stability Analysis and provided respective FOS and engineering recommendations
09/16 – 12/20	**Bayou Walk Shopping Center, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make recommendations to the project engineer to compile engineering report to address the specific project design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Verify boring logs, perform engineering analysis and prepare geotechnical reports in compliance with the standards and specifications.
08/19 – Present	**Shreveport Downtown Airport RW 14-32 Rehabilitation, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make recommendations to the project engineer to compile engineering report to address the specific project

	design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Performed Trial Batch using methodology for Full Depth Reclamation. Verify boring logs, perform engineering analysis and prepare geotechnical reports in compliance with the standards and specifications. Provided pavement recommendations.
06/22 - present	**Project #8-15 Walter O Bigby Carriageway Kelly Ave to Benton Hwy Bossier City, LA:** Provided onsite inspection and QC for the **client.** Based on contractor's completed work performing onsite inspection. During concrete placement tested fresh concrete for compliance of field placement. In accordance with required standards casting compressive strength test specimens. Laboratory Testing on Select Samples**.**
06/19 – 04/20	**Huntington Pond Lift Station Access Road & Bridge LIft Station Shreveport, LA:** Provided onsite inspection and QA for the client. Based on contractor's completed work performing in-place moisture and density testing of backfill and base course materials and acceptance. During concrete placement tested fresh concrete for compliance of field placement. In accordance with required standards casting compressive strength test specimens. Laboratory Testing on Select Samples. Tunneling inspection and testing. Construction Inspection and Management.
12/17 – 12/22	**SHREVEPORT DTN AIRPORT RW 5-23 SHIFT EXTENSION SHREVEPORT, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make recommendations to the project engineer to compile engineering report to address the specific project design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Verify boring logs, perform engineering analysis and prepare geotechnical reports in compliance with the standards and specifications. Provided RPR services and QA testing services.
03/15 – 09/18	**Huntington Pond Lift Station Access Road & Bridge LIft Station Shreveport, LA:** Provided onsite inspection and QA for the client. Based on contractor's completed work performing in-place moisture and density testing of backfill and base course materials and acceptance. During concrete placement tested fresh concrete for compliance of field placement. In accordance with required standards casting compressive strength test specimens. Laboratory Testing on Select Samples. Pile installation inspection. Construction Inspection and Management. Performed pavement inspection and testing.
06/18 – 09/18	**National Oilwell Varco Navasota, TX:** Provided onsite inspection and QA for the owner and coordinated with contractor and owner's representative for milestone and pay items. Based on contractor's completed work performing in-place moisture and density testing of backfill and base course materials and acceptance. During concrete placement tested fresh concrete for compliance of field placement. In accordance with required standards casting compressive strength test specimens. Laboratory Testing on Select Samples, engineering analysis for foundation & pavement design. Inspection of Shallow spread and continuous footings. Construction Inspection and Management. Performed pavement inspection and testing.
03/18 - 12/21	**Shreveport Regional Airport RW 6-24 Extension Shreveport, LA**: Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make recommendations to the project engineer to compile engineering report to address the specific project design, construction, and quality control requirements. Assist in identifying the problems and the probable causes of the results of laboratory testing and analyze to establish the facts and parameters involved. Verify boring logs, perform engineering analysis and prepare geotechnical reports in compliance with the standards and specifications. Accurately perform various construction materials tests in accordance with applicable standards, observe work procedures and verify compliance with job specifications. Create accurate and detail reports of observations and tests data. Interact with construction site supervisors and client representatives
10/19-08/20	**Tunneling Beck Branch Parallel Interceptor 36 to 72 inches Diameter Pipe Plano, TX:** QC Testing/ Construction Monitoring and Inspection to observe construction, test concrete/grout, soils, stone; also give professional opinions of materials or conditions and provide opinions for remedial actions or alternate methods as may be needed to facilitate the contractors work.
Other Qualifications	ACI Field Grade 1/ Concrete Trial Batch/RSO/ HAZMAT Training /Safety Training on Construction Industrial Sites/ Airport Safety Training/ HMA Paving Field Inspection/ Shallow Foundation Analysis/ Deep Foundation Analysis/ Slope Stability Analysis Slie2 (Rocscience)/ Settlement Analysis Settle3 (Rocscience)/ Levee Design/ Seepage Analysis, flow net/ Testing Concrete/ Testing Compaction on Soils/ Laboratory Testing for Soils/ Asphalt Pavement Inspection & Management/ NHI/ RPR Inspection/ ASCE Member/PTI Analysis (Post Tension Foundation)/ NHA Pavement Inspection

Firm employed by Dave Rambaran Geosciences, LLC					
Name	**Chaundra Course**			Years of experience with this firm/employer	1.5
Title	Professional/ Engineering Aide			Years of experience with other firm(s)/employer(s)	5.5
Degree(s) / Years / Specialization			BS / 2015 / Civil Engineering		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Geotechnical Staff, Project Manager		

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).
10/19 - Present	**Barksdale Air Force Base Consolidated Communication Facility, BAFB, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinate with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
08/21 –Present	**Freddy's Frozen Custard I-30 & Center Point Lane CMT, Greenville, TX:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinate with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
01/22 – Present	**City of Shreveport System Preservation and Improvements, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make pavement recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, pavement analysis, and prepare geotechnical reports in compliance with the standards and specifications.
05/22 – Present	**Linwood Avenue Phase IV, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and make pavement recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, pavement analysis, and prepare geotechnical reports in compliance with the standards and specifications.
06/20 – Present	**Natchitoches Regional Airport Runway 725 & Taxiway B1 Rehabilitation, Natchitoches, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinate with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
10/21 – 12/21	**Burt Drive Lot NCMC, Benton, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinate with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
06/20 – Present	**Shreveport Regional Airport Taxiway Bravo & GA Taxilanes CMT, Shreveport, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinate with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
06/21 – Present	**Vivian Airport Taxiway Turnarounds, Vivian, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinates with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.

07/20 – 07/22	**Caddo Levee 2 Repair CMT, Shreveport, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinates with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
05/22 - Present	**Hardy Overflow Basin and Lift Station, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, and prepare geotechnical reports in compliance with the standards and specifications.
05/22 – 07/22	**BSNF IMF Railroad Yard, Houston, TX:** Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, and prepare geotechnical reports in compliance with the standards and specifications.
12/19 – 12/21	**Fern Loop Rehab Hospital, Shreveport, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinates with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
06/20 – 01/22	**COS Public Landing & Springhill Lift Stations, Shreveport, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinates with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
03/19 – 05/22	**Aneca Federal Credit Union CMT, Bossier City, LA:** Observe and test onsite construction materials for compliance with plans and specifications. Coordinates with the Project Superintendent/Representatives daily and coordinates with registered professional engineer (soils or geotechnical engineer) on an as needed basis.
11/22 - Present	**DTN Runway 14-32 Safety Area Erosion Control, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, and prepare geotechnical reports in compliance with the standards and specifications.
08/22 - Present	**VA Medical Facility Water Storage Tanks, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, and prepare geotechnical reports in compliance with the standards and specifications.
08/22 – Present	**Shreveport Regional Airport PMP Pavement, Shreveport, LA:** Locate utilities at boring locations. Direct field crew to sample, test, collect and document field activities. Assign lab tests on samples collected in the field and ensure that suitable ASTM standards and procedures are followed in the lab. Study field and laboratory data and recommendations to the project engineer to compile an engineering report to address the specific project design, construction, and quality control requirements. Verify boring logs, perform engineering analysis, and prepare geotechnical reports in compliance with the standards and specifications.
Other Qualifications	ACI Concrete Strength Testing Technician / RSO / HAZMAT Training / OSHA 10-Hour Safety and Health / Airport Safety Training / Rigid and Flexible Pavement Design Analysis / Field Concrete Testing / Density Testing / Laboratory Testing for Soils / ASCE Member

Firm employed by J. W. Porter & Associates, LLC				
Name	Linda S. Porter		Years of relevant experience with this employer	38
Title	Abstractor & Right of Way Agent		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			* 38 years experience in Title Research and Abstracting, negotiations and acquisition of right of way for highway, water/waste water and pipelines. IRWA Course 802 – Legal Aspects of Easements IRWA Course 500 – Uniform Relocation Assistance Act Title Research and Abstracts on numerous LADOTD projects	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline		
Contract role(s) / brief description of responsibilities			Abstractor	

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).
1/84 – 1/22	* Title Research and Abstracting – 100's of DOTD projects

Firm employed by	Volkert, Inc.			
Name	**Randy Denmon, PE, PLS**		Years of relevant experience with this employer	26
Title	Project Manager & Hydraulics / Survey		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			MS | 1996 | Civil Engineering BS | 1991 | Mathematics	
Active registration number / state / expiration date			29390 | LA PE | 03/31/2023 4798 | LA PLS | 03/31/2023	
Year registered	1996 / 2001	Discipline	Civil / Survey	
Contract role(s) / brief description of responsibilities			Mr. Denmon will serve as Project Manager and Surveyor. He will fulfill Minimum Personnel Requirements #7 for the duration of this project.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
Mr. Denmon has 26 years experience in surveying and civil engineering for clients such as: La. Department of Transportation, and other State Agencies, Watershed and Lake Districts, the NRCS, and many local governments. Mr. Denmon has extensive experience with Trimble, Microstation and Bentley computer aided design software: and the LADOTD's Location and Survey Procedures for both topographic and right of way surveys. Mr. Denmon's certifications include: ▼ ATSSA Certified Flagger	
07/22 - 01/23	**IDIQ Contract for Design of Safety Projects, Statewide With Majority Of Work In Districts 04, 05 And 58. Contract No. 4400019871, LADOTD.** Sub to Gresham Smith for Topographic and Right of Way Surveys. One Task Order Complete. Surveyor in charge of all survey work.
12/21 - 01/23	**IDIQ Contract for Louisiana Watershed Initiative (LWI) Modeling Contract, Region 3, LADOTD, State Contract No. 4400017069.** Sub to Wood for topographic surveying on streams and bridges. Four Task Orders for $1,426,244. Surveyor in charge of all survey work.
04/08 - 01/23	**Kansas Lane Connector, LADOTD.** Engineer of record for all design work to include geometric design, drainage and final plans for approximately 3 miles of new urban 4 and 5 lane roadway. Construction Cost Estimate: $43,000,000. H.007289
11/19 - 10/20	**LA 3249: Roundabout @ I-20/Well Rd., Ouachita Parish, LA, LADOTD.** Project Engineer. Design of roundabout on LA 3249 within existing right-of-way. Project included five lane to two lane concrete roundabout with sub-surface drainage and concrete on/off ramps with sub-surface drainage. Work included: design drainage, geometric design, joint layout, typical sections, marking plans, preliminary and final plans, quantity calculations and cost estimates.
01/12 - 11/18	**Flood Control Improvements to the Rochelle St., Roselawn St. & 11th Area Of Monroe, LADOTD.** Project included all surveying, environmental permitting, H&H Modeling with HEC-HMS and HEC-RAS, Final Plans, Bidding and Construction Inspection. Project included new 6-acre retention pond and modifications to the existing Rochelle St. Pump Station. Project Cost: $2,153,000. Project funded through the LADOTD's Statewide Flood Control Program.
01/17 - 09/21	**Retainer Contract for Safe Routes to Schools (Srts) and Local Road Safety Program (LRSP), LADOTD. Contract No. 4400005894.** Complete topographic and right of way surveys for six projects. Surveyor in charge of all survey work.

01/00 - 04/08	**Jct. US 84 - Jct. LA 126; Route LA 34; Winn Parish; SPN 700-64-0102; FAP No. STP-591-1(008), LADOTD.** Design, and Topographic and R-O-W surveys for the relocation and reconstruction of approximately 11 miles of rural state HWY 34. Engineer and surveyor on the project.
03/09 - 04/11	**Oliver Road Widening, SPN 742-37-0019, ARR 3709(504), LADOTD.** Widening and reconstruction of 1 mile of urban road from 2 land to 3 lanes. Engineer of record and surveyor in charge of topographic and right of way surveying.
03/01 - 04/16	**Fink's Hide-A-Way Road Project Number: SPN 700-24-0087, FAP 8456 (002), LADOTD.** Project Engineer. Widening approximately 2 miles of Finks Hide-A-Way road in Ouachita Parish to three/five lane undivided roadway with underground drainage. Prime Engineer in charge of roadway design for the entire project. Project included concrete roadway, curb and gutter, and underground drainage. Work included: drainage design, geometric design, typical sections, preliminary and final plans, quantity calculations and cost estimates.

Firm employed by	Volkert, Inc.				
Name	**Chris Patrick, PE**		Years of relevant experience with this employer	36	
Title	QA/QC		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS | 1986 | Civil Engineering		
Active registration number / state / expiration date			24424 | LA PE | 09/30/2023		
Year registered	1991	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Mr. Patrick will serve as Client Liaison & QA/QC Manager for the duration of this contract.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
Mr. Patrick has 36 years of experience in civil/environmental engineering and construction management and is a licensed civil and environmental engineer. His project experience includes water systems; sewer systems; piping; storm water, sewer, and water supply pump stations; small building design; and recreational facilities in both rural and urban settings. His design experience includes civil, structural, hydraulic, hydrologic, sanitary, mechanical, CAD, architecture, environmental, and cost estimating. Mr. Patrick has extensive experience with WaterCAD and Bentley Software.	
02/98 - Ongoing	**Tensas Parish – Wide Water System – Tensas Parish Police Jury, Tensas Parish, LA.** Engineering, planning and feasibility studies, final designs and supervision of construction for several related projects to locate a source of potable water more suitable than the poor-quality ground water currently being used. Recommended improvements that were implemented including utilizing existing Lake Bruin as a source, construction of an intake structure, raw water pumping station and treatment plant along with associated transmission lines, storage, booster plants and regulators to distribute to other water systems in the Parish. Estimated cost $4,200,000.
04/19 - 02/21	**Proposed LCDBG Sewer System Improvements – Brendle Street, Bastrop, LA.** Project Supervisor. Project included surveying, permitting and design of replacement of existing sanitary sewer system gravity collection system lines and manholes. Project components include 16,000 linear feet of 12", 15" and 18" sanitary sewer gravity mains and sewer manholes. Project included civil, hydraulic, sanitary, CAD, environmental and cost estimating.
11/21 - 10/22	**Proposed Wastewater Collection System – Airline Drive, Bossier Parish, LA.** Project Supervisor. Project included surveying, permitting and design of new gravity sanitary sewer collection system lines to facilitate new commercial customers and business developments. Project components include 4,000 linear feet of 12" and 15" sanitary sewer gravity mains and sewer manholes. This project is an ongoing continuation of a parish-wide sewer system consolidation project. Project included civil, hydraulic, sanitary, CAD, environmental and cost estimating.
08/19 - 07/20	**Proposed Pargoud Street Lift Station Force Main Relocation, Monroe, LA.** Project Supervisor. Project included surveying, permitting and design of a new sewer force main for an existing pump station in an existing subdivision. Project components include 4,000 linear feet of 6" sanitary sewer force main. Project included civil, structural, hydraulic, sanitary, CAD, environmental and cost estimating.
05/19 - 08/20	**Proposed LCDBG Sewer System Improvements – Merrywoods Subdivision, Bossier Parish, LA.** Project Supervisor. Project included surveying, permitting and design of replacement of existing sanitary sewer system gravity collection system lines and manholes. Project components include 3,600 linear feet of 8" sanitary sewer gravity mains. This project is an ongoing continuation of a parish-wide sewer system consolidation project. Project included civil, hydraulic, sanitary, CAD, environmental and cost estimating.

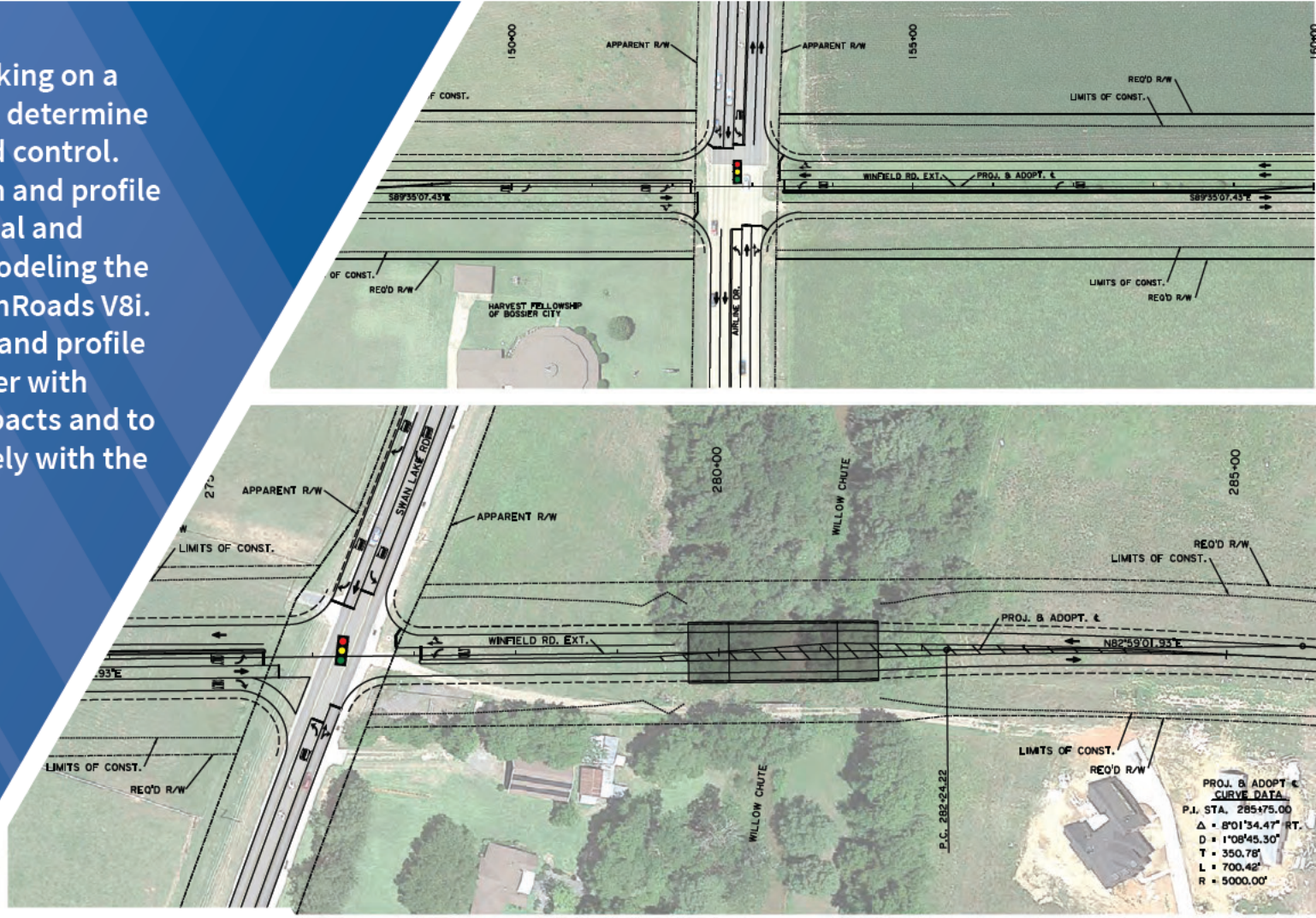
04/16 - 05/17	**Proposed LCDBG Sewer Treatment Plant Improvements, Bonita, LA.** Project Supervisor. Project included surveying, permitting and design of a complete renovation to an existing extended aeration sewer treatment facility. Project components include a new aeration system for an existing racetrack style primary oxidation basin, rehabilitation of an existing clarifier, rehabilitation of existing sludge drying beds, rehabilitation of an existing rock filter and rehabilitation of an existing chlorine contact chamber. Project included civil, structural, hydraulic, sanitary, mechanical, electrical, CAD, environmental and cost estimating.
11/16 - 02/17	**Proposed Lift Station and Force Main for Kingston Road, Bossier Parish, LA.** Project Supervisor. Project included surveying, permitting and design of a new sanitary sewer lift station, force main and gravity sanitary sewer lines for a parish-wide sewer system consolidation project. Project components include 8,900 linear feet of 18", 15", 12", 10" and 8" gravity sanitary sewer lines, 18,150 linear feet of 20" and 30" sanitary sewer force mains and one (1) primary sewer lift station serving the entire Kingston Road service area. This project is an ongoing continuation of a parish-wide sewer system consolidation project. Project included civil, structural, hydraulic, sanitary, mechanical, electrical, CAD, environmental and cost estimating.
01/15 - 02/15	**Proposed Lift Station and Force Main for Hwy. 80, Bossier Parish, LA.** Project Supervisor. Project included surveying, permitting and design of new sanitary sewer lift station and force main for a parish-wide sewer system consolidation project. Project components include 64,250 linear feet of 24" and 30" sanitary sewer force mains and one (1) primary sewer lift station serving the entire Highway 80 service area. This project is an ongoing continuation of a parish-wide sewer system consolidation project. Project included civil, structural, hydraulic, sanitary, mechanical, electrical, CAD, environmental and cost estimating.
09/00 - 08/01	**City of Tallulah – Master Water Improvement Plan, Tallulah, LA**. Engineering and feasibility studies to determine the most cost-effective plan to improve water service to the City of Tallulah who were currently served by a private utility who were attempting to treat very poor-quality ground water. All available sources were studied including both ground and surface water. Recommendations included the City purchasing the system from the Private Utility and building the necessary infrastructure to utilize surface water from Poverty Point Reservoir approximately 20 miles distant as no ground water source with a good quality of water could be located within that range. Estimated project cost $12,000,000.

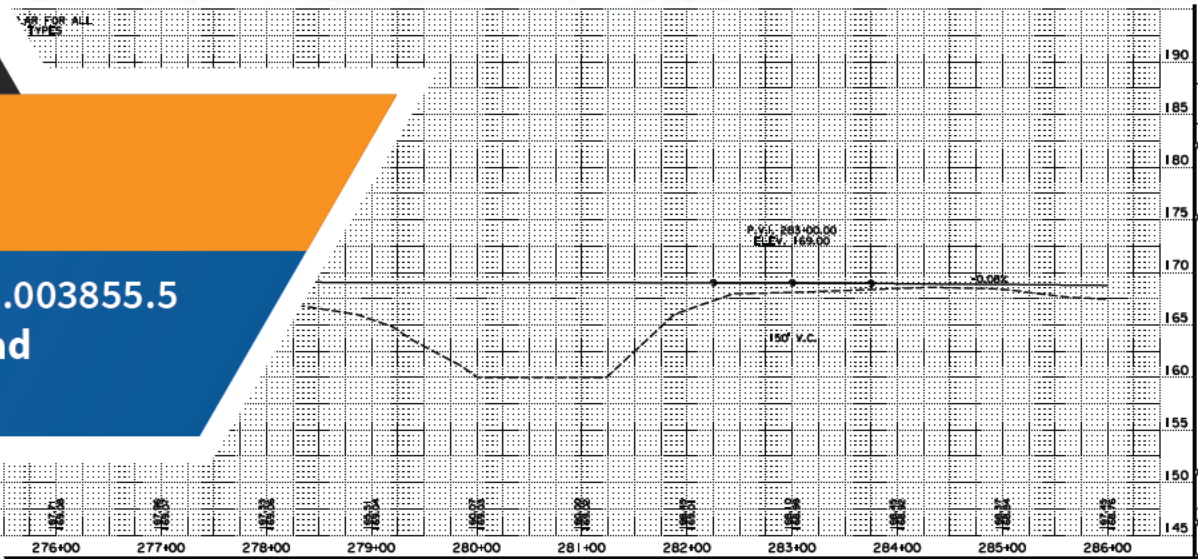
Firm employed by	Volkert, Inc.				
Name	**Ashley Beckendorf, PE**		Years of relevant experience with this employer	8	
Title	Roadway Design Engineer		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			BS | 2008 | Civil Engineering		
Active registration number / state / expiration date			37334 | LA PE | 03/31/2025		
Year registered	1991	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Ms. Beckendorf will serve as Roadway Design Engineer for the duration of this project. Ms. Beckendorf fulfills Minimum Personnel Requirement #3.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Ms. Beckendorf has 14 years of design and engineering experience and expertise in delivering complex drainage, roadway, open space, and other capital projects for government clients. Over her career she has specialized in roadway engineering, sewer infrastructure design and drainage design. For the past six plus years, she has managed and assisted with managing several projects of complex nature and succeeded in keeping on schedule and maintaining great project outcomes. Before her management experience she worked on the East Baton Rouge Greenlight Program and East Baton Rouge Parish Sanitary Sewer Overflow Program, beginning from the preliminary stages to design, on through construction. With her experience working with EBR through these projects, combined with her knowledge of engineering and managerial experience give her the ability to make a very effective manager. She has managed every aspect of projects including geotechnical engineering, surveying & mapping, environmental studies and permitting, subsurface utility engineering, utility coordination, lighting, traffic studies and design, Right of Way Acquisition, drainage, and roadway design. Ms. Beckendorf's certifications include: • FHWA-NHI-142005 NEPA and the Transportation Decision-making Process • Traffic Engineering Analysis • Process & Report - Module 2 • Process & Report - Module 3
05/19 - 12/21	**I-220/I-20 Interchange Improvements to BAFB Access Design-Build, Bossier Parish, LA (LA DOTD).** Ms. Beckendorf is providing roadway design submittal review for Volkert's team. The I-220/I-20 Interchange Improvement and BAFB Access project in Bossier Parish consists of the extension of I-220 to the south over I-20 as a limited access 4-lane arterial to a new terminus on Barksdale Air Force Base (BAFB) and includes construction of four interchange ramps providing interchange connectivity for the new access road. The project includes the construction of two sets of bridge structures, one set for the I-20 over pass and the second set for the over- pass of the KCS RR. The project terminus will tie to a BAFB roadway project creating a new access location for the base. | State Contract No. 4400016173, S.P. No. H.003370.6.
05/18 - 05/19	**LA 929 at LA 930 Roundabout, Ascension Parish, LA (Ascension Parish Government).** As project manager and lead engineer, Ms. Beckendorf coordinated all sub-consultants and supervised all work done on the project. This a new roundabout at LA 929 and LA 930. It consists of a one lane roundabout with a combination of ditch drainage and subsurface drainage.
05/18 - 05/19	**Plank Road, East Baton Rouge Parish, LA (Baton Rouge Metropolitan Airport).** As project manager, Ms. Beckendorf coordinates between sub-consultants, between the airport, the FAA, and LA DOTD. She is responsible for the design of Plank Road (the new alignment), QA/QC of all components and supervision of all PE's, EI's, and technicians working on the project's design. This is project is to relocate Plank Road along a new alignment. The project includes ROW acquisition and all the design for a new 4 lane highway with J-turns. It also includes ROW acquisition and all the design for additional lanes along Harding and Hooper Road. It

	also includes a new lighting system and new signalized intersection. This project is an Airport project, funded by FAA, but the road will be transferred to LADOTD.
10/15 - 09/16	**I-10: Highland Road to LA 73 Supplemental Agreement No. 2, East Baton Rouge and Ascension Parishes, LA (LA DOTD).** Volkert was contracted to perform and prepare an Interstate Modification Report (IMR) to analyze the existing roadway networks and identify the best alternatives to improve capacity the interchange at I-10 and LA 42. As one of the Project Engineers, Ms. Beckendorf assisted in managing the project tasks. She performed 15-minute queue length analyses. She performed a crash study, including a crash analysis of all the intersections, segments, and spots using LA DOTD manual for Crash Data Analysis and crash1b software, pulling crash reports, analyzing the over representation, and drawing crash diagrams. Lastly, she has assisted in the time travel study. | State Contract No. 4400004915 SA 2, S.P. No. H.009250
01/15 - 04/15	**Clarence Henry Truckway Right Turn Lane Addition | New Orleans, LA | Port of New Orleans.** As Project Manager and Project Engineer, Ms. Beckendorf provided roadway engineering for a right turn lane addition of approximately 1 mile in length. The scope of her work included plans, specifications and quantities with plan elements such as typical sections, plan sheets, striping and signing, sequence of construction and traffic control. Volkert is responsible for the preliminary submittal through the 100% final design plan submittal.
04/14 - 12/15	**Magnolia Converted Pedestrian Bridge Rehabilitation | New Orleans, LA | City of New Orleans.** Ms. Beckendorf designed ADA compliant sidewalks and ramps. Volkert is responsible for providing design, engineering and construction management services to the City for the rehabilitation of a late 19th century bridge over Bayou St. John.
04/14 - 12/14	**St. Landry Road – Edenborne Connector, Ascension Parish, LA (Ascension Parish Government).** As Project Engineer, Ms. Beckendorf provided roadway design engineering including plan profiles, specifications, geometrics, typical cross sections, and striping and signing plans. For the sewer work, she designed gravity and force main lines and assisted with the design of the pump station and site layouts. The project consists of providing provide an environmental impact study, right away analysis, full roadway and utility design, and bid services for a divided facility that will connect St Landry Ave. and Edenborne Connector. Volkert is responsible for the initial preliminary information submittal through the 100% final design plan submittal.

Neel-Schaffer is currently working on a traffic study for this project to determine the intersection geometry and control. NSI is working to produce plan and profile sheets and refine the horizontal and vertical alignments. We are modeling the Winfield Rd. Extension using InRoads V8i. Shown to the right is the plan and profile sheet produced by Neel-Shaffer with refinements to reduce the impacts and to align the geometry more closely with the existing roadway.





Section 17

Contract No. 4400027600 State Project No. H.003855.5

Entity Contract for Cong Relief Winfield Road

Bossier Parish

17. Firm Experience

Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	**Road**	
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	

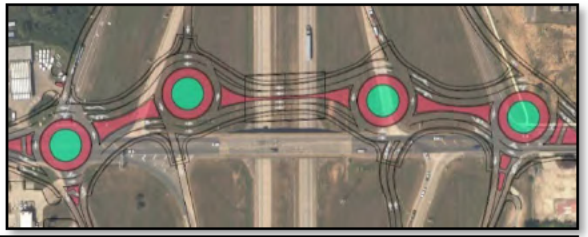
Neel-Schaffer was selected as prime consultant to complete the **preliminary and final roadway plans, hydraulic analysis and design,** construction **cost estimates,** and **construction support**. The project will widen existing LA 1026 (Juban Road) from an existing two-lane road with side ditches to a 4-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:

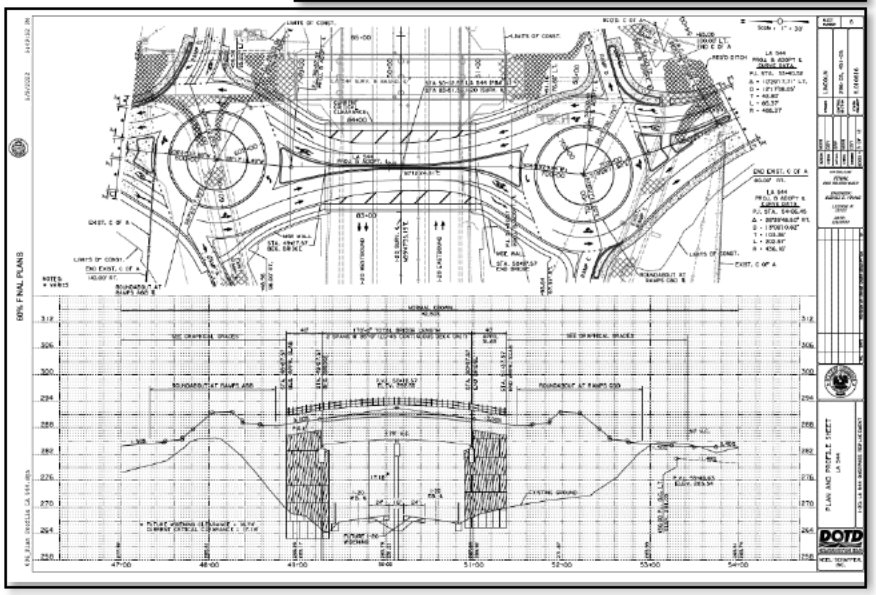
Part I: Surveying Services
Part II: R/W Acquisition and Utility Relocation
Part III: Preliminary Plans
Part IV: Final Plans
Part VI: Inspection Services
Part VII: Construction Proposal

Firm Members Involved: Jerry Trumps (Principal), Dishili Young (Project Manager/Lead Designer for Final Design), Chance Shuckrow (Design Engineer), Scott Andrepont (Design Engineer), and Mai Nguyen (Design Engineer), Charles Adams (Traffic Control Plans)

Firm name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Category(ies)*	**Road**	
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, PE	
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)		$858	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$858	

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:

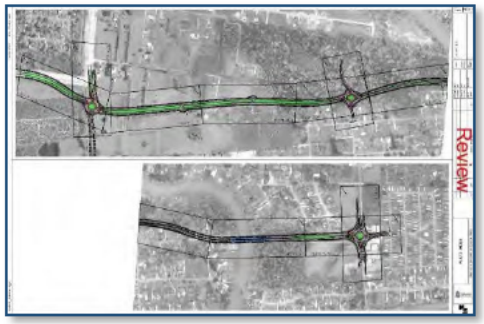
1. Large grade changes required along ramps without impacts to the gores.
2. Structural design by DOTD while roadway design is completed by consultants.

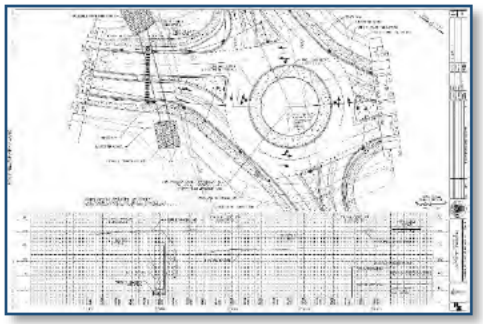
Solutions:

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 provided desirable bridge phasing while minimizing impacts. NSI and DOTD are working as one team to successfully complete the project.

Firm Members Involved: Jerry Trumps (Principal), Dishili Young (Project Manager), Mai Nguyen (Design Engineer), Chance Shuckrow (Design Engineer), Scott Andrepont (Design Engineer), Josh Schexnider (Design), Frank Standige (Constructability) and Jacob Thiaville (design support).

Firm Name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Discipline(s)*	**Road**	
Project name	**South City Parkway Traffic Study, Line & Grade, and Environmental Assessment**		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)	11/2015	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, four-lane median divided roadway connecting US 167 (Johnston Street) with Kaliste Saloom Road, including three multi-lane roundabouts and a new fixed span bridge crossing of the Vermillion River. Neel-Schaffer 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.

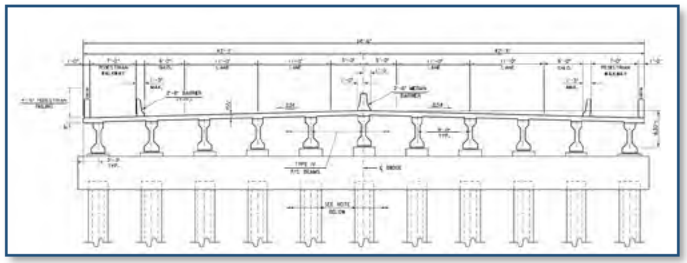
Neel-Schaffer completed the **EA, technical studies, line and grade**, roadway and bridge design, established **US Coast Guard navigation clearances**; completed an H&H analysis for the new proposed Vermilion River bridge crossing, obtained the **no rise certification**, and completed an H&H analysis 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 2-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.

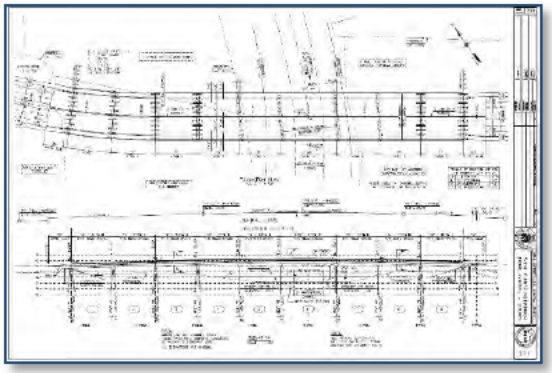
In addition to providing the design services, Neel-Schaffer is also providing the environmental planning (**Environmental Assessment, USCG permit, navigation studies**), completed the **public involvement**, developed **traffic forecasts**, provided **traffic analysis**, and will provide construction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

Firm Members 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

New connector road Designed using the DOTD guidelines and software; includes similar design SOW (bridge design, roundabouts, roadway widening, roadway realignment and reconstruction)





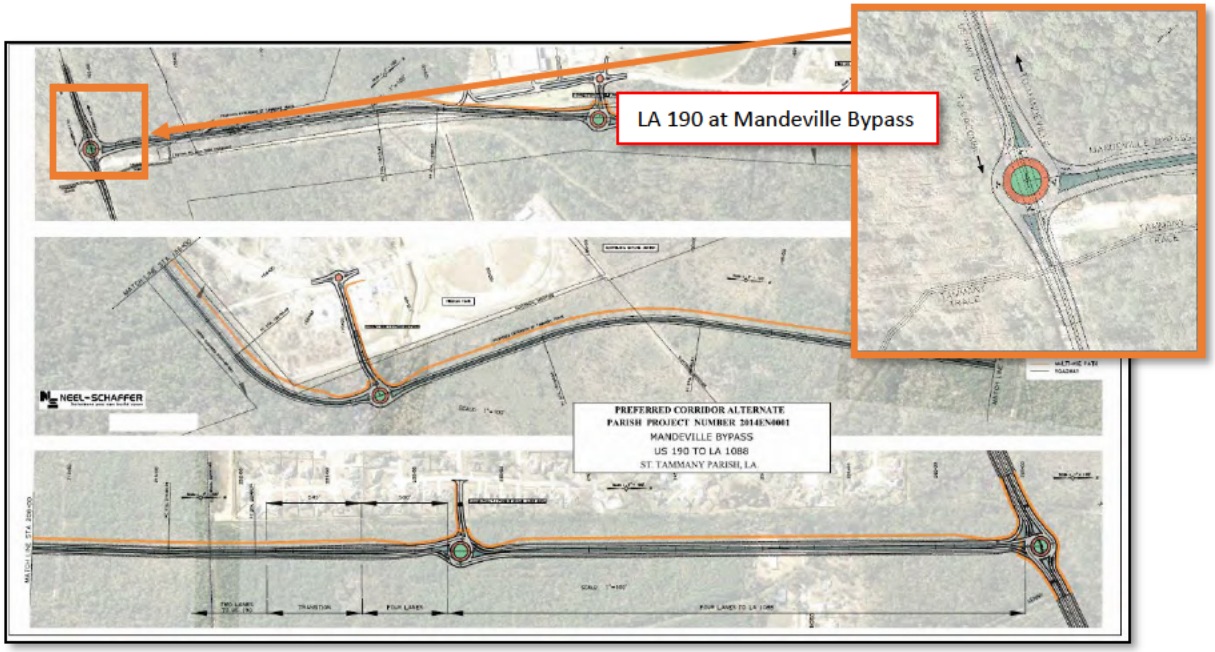
Firm Name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Discipline(s)*	**Road**	
Project name	**Mandeville Bypass**		Firm responsibility (prime or sub?)	Sub	
Project number	N/A	Owner's name	St. Tammany Parish		
Project location	Mandeville, LA		Owner's Project Manager	Laura B. Gatlin, PMP	
Owner's 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.

Firm Members Involved: Jerry Trumps (Principal), Dishili Young, Scott Andrepont, Chance Shuckrow, (L&G Engineering) Barry Brupbacher, Vijay Kunada (Traffic forecast & analysis), Josh Schexnider.



PROJECT RELEVANCE
This project includes work along two state highways, is in the final design phase and was designed using the DOTD guidelines & software.

Firm Name	**Neel-Schaffer, Inc.**		Past Performance Evaluation Discipline(s)*	**Road**	
Project name	**City of Youngsville Roadway Projects**		Firm responsibility (prime or sub?)	Prime	
Project number	N/A	Owner's name	City of Youngsville		
Project location	Youngsville, LA		Owner's Project Manager	Clint Simoneaux	
Owner's address, phone, email	305 Iberia St., Youngsville, LA 70592				
Services commenced by this firm (mm/yy)	05/22	Total consultant contract cost ($1,000's)		$900	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$790	

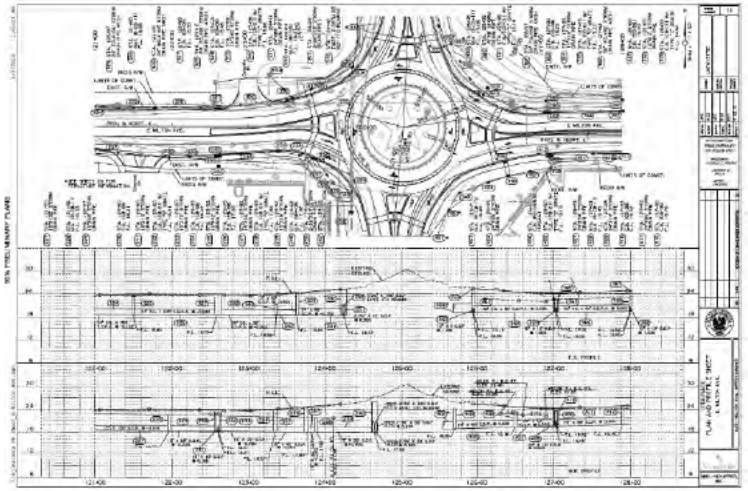
Neel-Schaffer was selected as a prime consultant to complete the **preliminary and final roadway plans, hydraulic analysis and design, construction cost estimates,** coordination for surveying services, coordination for geotechnical services, coordination for right-of-way acquisitions, coordination for utility relocations, and construction support for three projects with the City of Youngsville. **Projects are designed in conformance with DOTD guidelines.**

LA 89 at Chemin Metairie Parkway: The project begins along Chemin Metairie approximately 1,100 ft West of the intersection and end approximately 1,075 ft East of the intersection. The limits along Guillot Road are anticipated to extend approximately 1,300 ft north and 1,550 ft south of the intersection. The project includes the expansion of the existing single lane roundabout to a multilane roundabout including widening the approach roadways, drainage improvement, sequence of construction, striping and signage plans and more.

Velascco Crossing: This project will provide a new two-lane connector roadway, with drainage, between Chemin Metairie Parkway and the Existing Velascco Crossing.

Firm Members Involved: Dishili Young, Mai Nguyen, Chance Shuckrow, Scott Andrepont, Gary LeBlanc, Joshua Schexnider, Stephen Perault, Phil Grave and Jacob Thiaville (design support).

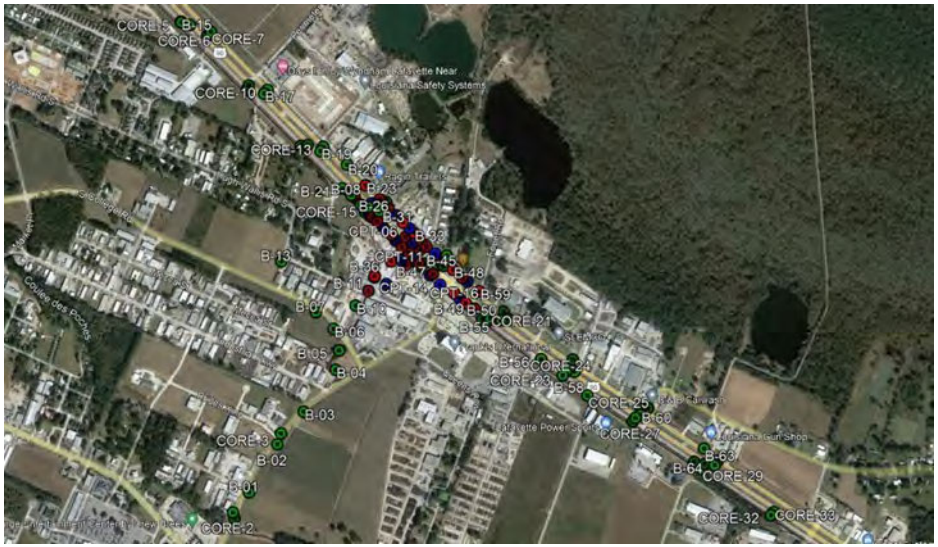
E. Milton Ave Improvements: The project will convert the existing two lane roadway to a median divided roadway with turn lanes. The intersection of E. Milton Rd. and Chemin Metairie Rd. will be constructed as a multilane roundabout. The project extends along E. Milton Ave. approximately 2,500 ft West and ends approximately 2,500 ft East of the intersection. The limits along Chemin Metairie Rd. are anticipated to extend approximately 900 ft north and south of the intersection. Drainage improvements will include the conversation of the open ditch drainage along E. Milton Ave. to subsurface drainage.



Firm name	**Terracon Consultants, Inc.**		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**I-49 South at Verot School Road**		Firm responsibility (prime or sub?)	Sub	
Project number	H.011235	Owner's name	Louisiana Department of Transportation and Development		
Project location	Lafayette, LA		Owner's Project Manager	Corey Landry, P.E.	
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802; (225) 379-1387; corey.landry@la.gov				
Services commenced by this firm (mm/yy)	06/18	Total consultant contract cost ($1,000's)		$442	
Services completed by this firm (mm/yy)	02/22	Cost of consultant services provided by this firm ($1,000's)		$442	

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

Terracon was the geotechnical subconsultant to Huval and Associates. Terracon performed 30 deep borings, 67 shallow borings, including 33 located within the existing roadways, 15 CPT soundings, lab testing, installed and monitored piezometer, and prepared soil surveys and boring logs for planned new bridges, roadway widening, and retaining wall structures.



Prior to mobilizing exploration equipment, Terracon's drilling manager and drilling personnel conducted extensive site visits to mark boring locations, meet with private landowners and utility locators, and verify boring access and site conditions. Terracon coordinated field activities with DOTD district personnel, including the required traffic control. Traffic control, including shoulder and both daytime and overnight lane closures were required to complete several borings. Terracon mobilized multiple pieces of exploration equipment to complete all field work in a timely and provided regular updates to team members about the project.

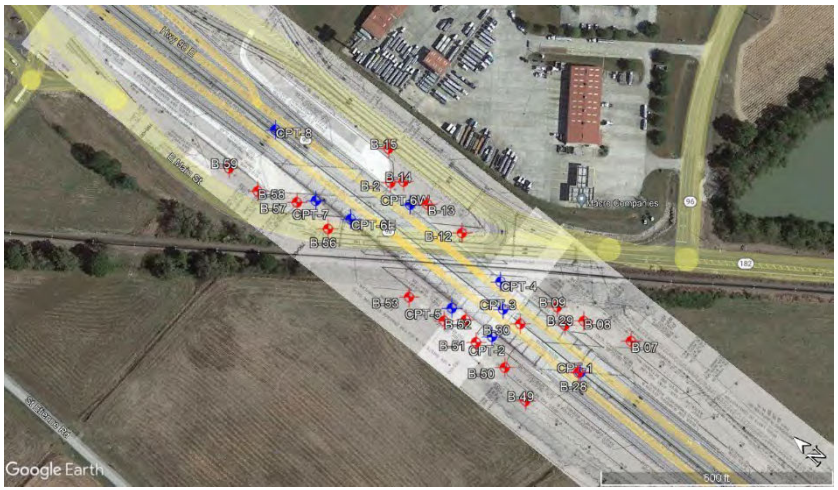
After completing the field exploration and lab testing programs, Terracon prepared pile nominal resistance calculations for the planned bridge substructures in accordance with DOTD standards. Terracon additionally performed stability and settlement analyses for the MSE Walls. Terracon communicated with the design team and updated the analyses and recommendations throughout the design process, as necessitated by changes in the design.

Key Members: Lynne Roussel McMillen, Steve Greaber, Sarah Berman, Ryan Poindexter, Matthew Minton, Brian Alexander

* 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.

Firm name	**Terracon Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Geotech
Project name	**US 90 (I-49 South) Albertsons Parkway Design Build**	Firm responsibility (prime or sub?)	Sub
Project number	H.010620	Owner's name	Louisiana Department of Transportation and Development
Project location	Broussard, LA	Owner's Project Manager	Peggy Jo Paine, P.E.
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802; (337)475-4287 Peggy.Paine@la.gov		
Services commenced by this firm (mm/yy)	02/15	Total consultant contract cost ($1,000's)	$350
Services completed by this firm (mm/yy)	12/18	Cost of consultant services provided by this firm ($1,000's)	$350

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



Terracon provided geotechnical design of the substructure of two bridges and global stability and settlement analysis for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors or pile order lengths to accommodate slight variations in nominal capacity obtained at each bent. Terracon also provided construction phase support to the design build contractor in evaluating of settlement monitoring data for the MSE walls for compliance with the contract requirements, pile bent acceptance, resolving NCRs, and supporting evaluation of RFIs.

Key Members: Lynne Roussel McMillen, Steve Greaber, Ryan Poindexter, Matthew Minton, Brian Alexander

* 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.

Firm name	**Terracon Consultants, Inc.**		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**Nelson Road Extension and Bridge**		Firm responsibility (prime or sub?)	Prime	
Project number	H.009481	Owner's name	Louisiana Department of Transportation and Development		
Project location	Lake Charles, LA		Owner's Project Manager	Kristy Smith, P.E.	
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802; (225) 379-1387; Kristy.Smith2@la.gov				
Services commenced by this firm (mm/yy)	07/18	Total consultant contract cost ($1,000's)		$364	
Services completed by this firm (mm/yy)	12/18	Cost of consultant services provided by this firm ($1,000's)		$364	

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

Terracon provided soil borings, lab testing, boring logs, and engineering for a planned roadway extension and bridge. Provided pile nominal capacity calculations and recommendations for resistance factors for design. Provided design support for impact dolphins to be placed in front of bridge to protect superstructure from impact by large ships from adjacent Port of Lake Charles.

Key Members: Lynne Roussel McMillen, Steve Greaber, Sarah Berman, Ryan Poindexter, Matthew Minton, Brian Alexander

* 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.

Firm name	HNTB Corporation		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	US. 80 Over I-20 Bridge Replacement		Firm responsibility (prime or sub?)	Prime	
Project number	H.010012	Owner's name	LADOTD		
Project location	Calhoun, Louisiana		Owner's Project Manager	Stephanie Doolittle	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802; (225) 379-1328; stephanie.doolittle@la.gov				
Services commenced by this firm (mm/yy)	01/17	Total consultant contract cost ($1,000's)	465		
Services completed by this firm (mm/yy)	05/19	Cost of consultant services provided by this firm ($1,000's)	443		

The LADOTD identified the U.S. 80 bridge crossing I-20 near Calhoun as a structure deteriorating beyond what was considered repairable. U.S. 80 provides a critical route for local rural traffic west of Monroe, Louisiana. I-20 is a vital corridor for interstate traffic across the southeastern United States, as well as the main thoroughfare of northern Louisiana. As a result, it was decided that ABC techniques would be used to limit the disruption of traffic flows.

HNTB was tasked with developing final bridge, roadway, and MSE wall plans for a two-span, 290-foot steel girder bridge crossing I-20 to replace the existing six-span structure. The superstructure was built off alignment and moved into place using SPMT. Because of these innovations, I-20 only required two weekend-long closures to complete the demolition and new construction. Substructures consisted of column bents founded on drilled shafts and MSE wall were required around each abutment to reduce the length of bridge. Lightweight fill was required in the MSE walls, to mitigate excessive levels of settlement.

Prior to final design, HNTB's bridge staff investigated several superstructure layouts to identify the best configuration for the unique requirements of the project. Structure depth was limited due to several site constraints. The nearby ramps could not be moved due to significant additional costs. It was also preferable to place the substructures and walls outside the clear zone. This created a long span with less than the preferred structure depth. Varying girder spacings and depths, as well as continuous and simple span configurations, were considered. The final design was performed with analysis and consideration for the unique construction. Plans were developed to specify the accelerated construction methods required by the contractor. Construction was completed in late 2021.

Members involved: Josh Porter, Dusty Bastion, John Bernard, Ben Goodner, Brian Powell, Jared Sommers, Brad Wilder

Firm name	HNTB Corporation		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	LA 1 Leeville to Golden Meadow Phase 2		Firm responsibility (prime or sub?)	Prime	
Project number	H.008145	Owner's name	LADOTD		
Project location	Leeville, Louisiana		Owner's Project Manager	Tim Nickel	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802; (225) 379-1110; timothy.nickel@la.gov				
Services commenced by this firm (mm/yy)	04/13	Total consultant contract cost ($1,000's)		20,828	
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm ($1,000's)		13,993	

Preliminary and final design of relocated LA 1 between Leeville and Golden Meadow, Louisiana. The relocated LA 1 will service Port Fourchon and provide an elevated structure from the protected side of the levee in Golden Meadow to Port Fourchon. With Phase I constructed, Phase 2 is 8 miles of elevated structure and broken into four phases: Phase 2A: southern portion tying into
Phase I; Phase 2B: middle portion with five miles of top-down construction; Phase 2C: northern segment with levee crossing and T-wall; and Phase 2E: widening of existing LA 1, Phase I. Each phase of the project was designed in accordance with the Bridge Design and Evaluation Manual (BDEM) and the majority of the structure consists of LG girders and slab spans founded on pile bents. Phases 2A and 2E was designed by subconsultants, while phases 2B, 2C and 2D was designed by HNTB.

For Phase 2B, HNTB was responsible for evaluating optimal span lengths and structure types for top-down construction. As a result, HNTB investigated the feasibility of design alternates such as segmental bridge construction. Due to the unique nature of the project, HNTB recommended a detailed contractor-style bid estimate to help determine which structure type alternatives should be carried into final design. Final design of Phase 2B offered two superstructure alternatives and three substructure alternatives. Due to poor soils and storm surge lateral forces, FB-Multipier was used to determine pile loads. Substructure cap beams were designed and detailed as precast caps to facilitate top-down construction techniques.

Phase 2C is the northernmost end of the bridge that crosses the existing levee and ties relocated LA 1 into existing LA 3235 near Golden Meadow. Phase 2C does not require top-down, however, a significant portion of the alignment is in a 25-foot deep trench on the protected side of the levee created when the levee that was constructed. 80-foot spans using LG-54 supported on cast-in-place caps with 30-inch piles make up the majority of Phase 2C, but two long LG-78 spans (140 and 150 feet, respectively) were used to cross an existing pipeline and levee and slab spans were used to tie into at-grade roadways. Design was completed in early 2022 and construction began in December 2022.

Members involved: John Bernard, Dusty Bastion, Ben Goodner, Josh Porter, Marc Hoffmann, Patrick Duffy, Travis Honore, Brian Powell, Jared Sommers, Brad Wilder

Firm name	HNTB Corporation		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	LA 442 over Tangipahoa River Bridge Replacement		Firm responsibility (prime or sub?)	Prime	
Project number	H.013052	Owner's name	LADOTD		
Project location	Tickfaw, Louisiana		Owner's Project Manager	Stephanie Doolittle	
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802; (225) 379-1328; stephanie.doolittle@la.gov				
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost ($1,000's)		350	
Services completed by this firm (mm/yy)	03/19	Cost of consultant services provided by this firm ($1,000's)		326	

LA 442 over the Tangipahoa River consisted of steel I-beam girder superstructures with cast-in-place pile bent substructures founded on PPC piles. Constructed around 1960, this 420-foot bridge is a vital link carrying vehicular traffic from the rural areas in northern Tangipahoa Parish to the more populated southern areas of the parish. The Tangipahoa River in this area is prone to large fluctuations in stream flow and high river currents during rain events. Due to the potential for high flow velocities and the sandy soils present in this area, this structure has been placed on Louisiana's scour critical priority list.

After the historic floods in 2016, a scour inspection discovered the structure underwent excessive scour and was potentially unstable.

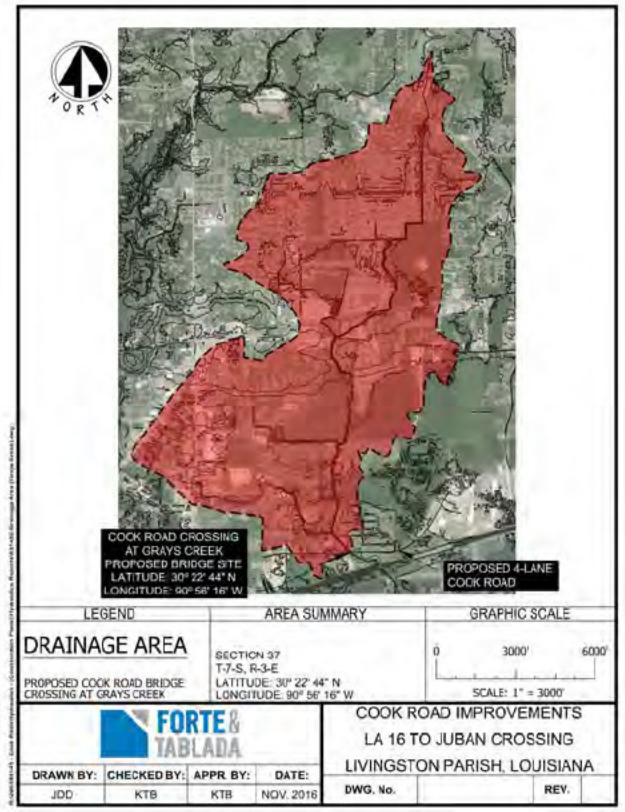
HNTB was given a work assignment to develop final plans to replace the structure using accelerated project delivery. In less than five months, HNTB obtained survey and proceeded to deliver final plans to replace this structure on the same alignment. The new structure and adjacent roadway could not be raised above flood level due to site constraints. As a result, the structure was designed to accommodate overtopping during high water events. The substructure was also designed to ensure structure stability during excessive scour events. Scour countermeasures were placed around the abutments to prevent stream migration and scour near the abutments. The superstructure consists of LG girders while the substructures are concrete bent caps founded on steel pipe piles. Because this river is considered a scenic stream by the state, all countermeasures incorporated vegetation details to maintain established scenic stream requirements.

Members involved: Dusty Bastion, Josh Porter, Ben Goodner

Firm name	Forte and Tablada, Inc.			*Past Performance Evaluation Discipline(s)**	Road, Survey, Bridge, Env.
Project name	Cook Road Improvements			*Firm responsibility (prime or sub?)*	Prime
Project number	F&T No. 83145	*Owner's name*	Livingston Parish Council		
Project location	Livingston Parish, LA			*Owner's Project Manager*	Layton Ricks, Parish President
Owner's address, phone, email	P.O. Box 427, Livingston, LA 70754, 225-686-2266; lricks@lpgov.com				
Services commenced by this firm (mm/yy)	1/12	*Total consultant contract cost ($1,000's)*	$2,833		
Services completed by this firm (mm/yy)	Ongoing	*Cost of consultant services provided by this firm ($1,000's)*	$2,833		

Forte and Tablada performed comprehensive engineering and surveying services for this project that designed improvements to an existing section of two-lane roadway and an unimproved area with the construction of a four (4) lane boulevard section from LA Hwy 16 (Pete's Hwy) to LA Hwy 1026 (Juban Road), along with several bridges. The project typical section included a grass median (including turn lanes) with lighting and sidewalks on both sides of the road. Due to other projects and anticipated growth in the project area, this project also includes a multi-lane roundabout at the intersection of Cook Road and Pete's Hwy. This project included 2 180' long reinforced concrete span bridges. A HEC-RAS hydraulic model was created to evaluate the bridge's performance. A no-rise certificate was also required for this project. The structures were analyzed in accordance with LA DOTD Hydraulics Manual. Services provided for this project include project management, a Line and Grade Study, Topographic Surveying, Environmental Services, Property Surveying, Right-of-Way Mapping, Title Take Offs, Design Engineering, Construction Engineering, and Resident Project Representative Services for the proposed construction. The engineering design was completed January 2022, and construction phase is currently underway.

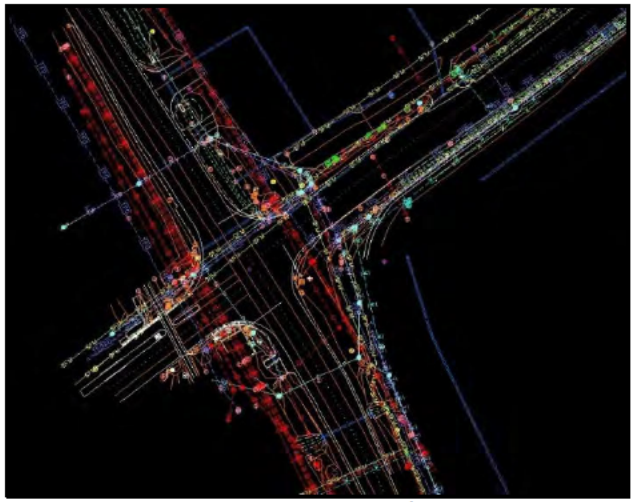
Project Team:
Chad Bacas, P.E., Project Manager
Allison Schilling, P.E., Project Engineer
Kresten Brown, P.E., Project Engineer
Mark Kessler, Senior Technician
Joffrey Easley, P.E., Project Engineer
Ross Wilson, PLS, Project Surveyor



Drainage Area for Cook Road Bridge Crossing at Gray's Creek

Firm name	Forte and Tablada, Inc.		*Past Performance Evaluation Discipline(s)**	Survey	
Project name	LA 327 Spur: Staring Lane Extension Route LA 327-S		*Firm responsibility (prime or sub?)*	Prime	
Project number	S.P. No. H.011684.5	*Owner's name*	LA DOTD		
Project location	East Baton Rouge Parish, LA		*Owner's Project Manager*	Barrett Smith	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225-379-1292				
Services commenced by this firm (mm/yy)	11/18	*Total consultant contract cost ($1,000's)*		$204	
Services completed by this firm (mm/yy)	12/21	*Cost of consultant services provided by this firm ($1,000's)*		$204	

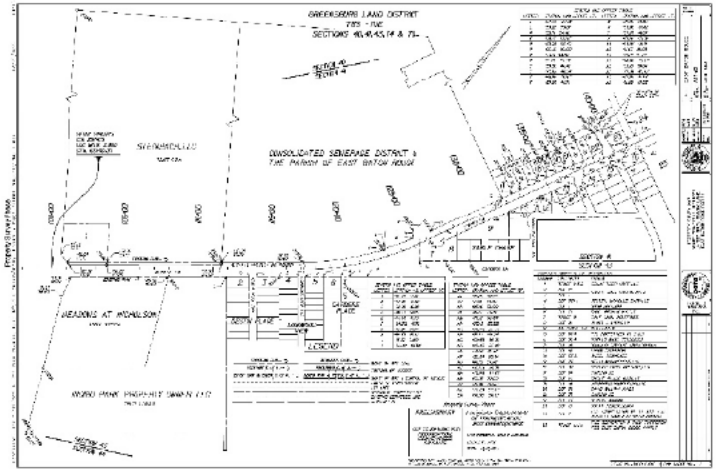
Forte and Tablada completed a topographic survey for a new route which is located in East Baton Rouge Parish, between the intersections of LA 42 (Burbank Drive) and Staring Lane and LA 327 (Gardere Lane) and LA 30. A complete topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits. The survey was completed in accordance with LA DOTD Location and Survey's policies and procedures. Forte and Tablada also performed a Title Take-offs and Property Surveys for the proposed route in accordance with La DOTD's policy and procedures. The Property Survey involved the research, field investigations and boundary analysis for 35 properties within East Baton Rouge Parish.



Topographic Survey of the Nicholson/Gardere intersection

Project Team:
Joey Coco, P.E., Principal-In-Charge

Brad Holleman, P.L.S., PE, Surveyor- in-Charge (Property Survey)
Will Fontenot, P.L.S.,(Topographic Survey)
Ross Wilson, P.L.S., Project Manager
Rachel Waldroup, P.L.S. (Property Survey)



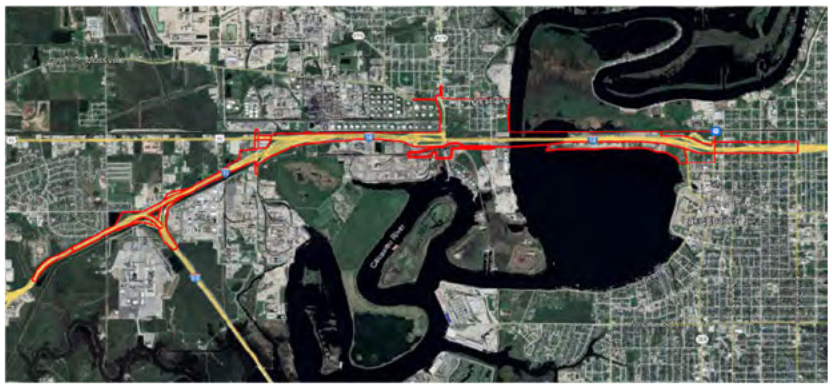
Property Survey deliverable for Staring Lane Extension

Firm name	Forte and Tablada, Inc.		*Past Performance Evaluation Discipline(s)**	Survey	
Project name	Calcasieu River Bridge (HBI)		*Firm responsibility (prime or sub?)*	Prime	
Project number	S.P. No. H.003931.5	*Owner's name*	LADOTD		
Project location	Calcasieu Parish, LA		*Owner's Project Manager*	Steven LeBlanc	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1292, Steve.LeBlanc2@la.gov				
Services commenced by this firm (mm/yy)	05/21	*Total consultant contract cost ($1,000's)*		$4,282.2	
Services completed by this firm (mm/yy)	12/22	*Cost of consultant services provided by this firm ($1,000's)*		$4,282.2	

Forte and Tablada has been heavily involved in the Interstate 10 Calcasieu River Bridge Replacement project since 2019. Multiple task orders have been completed involving a range of surveying activities including terrestrial laser scanning and modeling the I-10 bridge, performing Terrestrial Mobile LiDAR for the 7.3 mile corridor along I-10, performing the largest Topographic Survey and Existing Drainage Map in the firm's 61 year history and providing supplementary, as needed services, such as pipe rack and truss clearances from the survey grade computer model. The survey also included a multibeam hydrographic survey of the Calcasieu River. The topographic survey was performed in accordance with LA DOTD's Location and Survey Manual. Forte and Tablada coordinated with the Subsurface Utility Engineer assigned to this project to survey and depict an ACSE 38-02 Quality Level A & B utility investigation. The largest challenge for this project was the advanced schedule. Forte and Tablada was able to overcome this challenge through the use of up to 7 field crews simultaneously working on the project and advance measurement technology including terrestrial stationary LiDAR, mobile terrestrial LiDAR, single beam hydrographic surveying equipment and multibeam hydrographic surveying equipment.

Project Team:
Russell J. "Joey" Coco, Jr., P.E., MBA
Brent Campbell
Brad Holleman, P.L.S., P.E.
Ross Wilson, P.L.S.
Rachel Waldroup, P.L.S.
Tommy Lake, Party Chief
Jeremy Cormier, CAD Tech

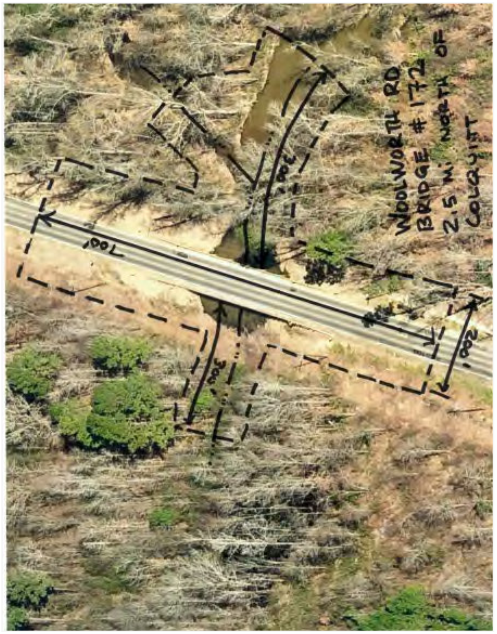
Neel-Schaffer, Inc.



Google Earth image showing survey limits

Firm name	Dave Rambaran Geosciences, LLC		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**Woolworth Road & Bridge #s 171, 172, & 173**		Firm responsibility (prime or sub?)	Sub	
Project number	N/A	Owner's name	Caddo Parish		
Project location	Caddo Parish		Owner's Project Manager	Ken Ward	
Owner's address, phone, email	505 Travis St. Suite 820 Shreveport, LA 318.226.6930: kward@caddo.org				
Services commenced by this firm	1/16	Total consultant contract cost ($1,000's)		25,000	
Services completed by this firm	9/18	Cost of consultant services provided by this firm ($1,000's)		25,000	

Bridge 171, 172 & 173 Woolworth Road Caddo Parish Road & Bridge Crossing, Shreveport, LA: Three geotechnical investigations were performed for this project consisting of a new bridge and crossing and onramp access. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for the deep foundation with active and passive earth pressures, soil supported box culvert large opening bridge crossing and pavement recommendations. Mr. Rambaran served as the Senior Geotechnical Engineer for this project.

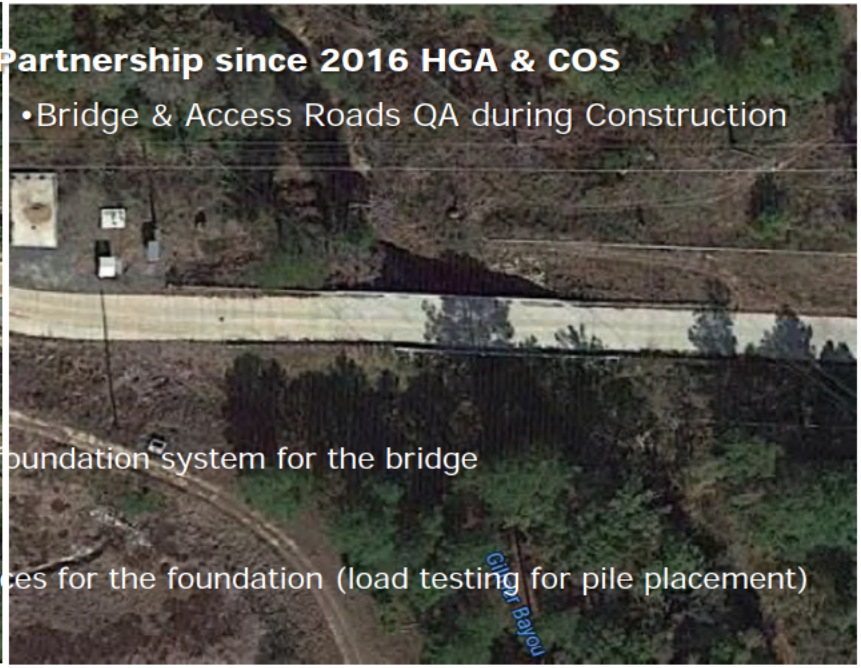


Firm name	Dave Rambaran Geosciences, LLC		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**Downtown Runway & Taxiway Extension**		Firm responsibility (prime or sub?)	Sub	
Project number	N/A	Owner's name	City of Shreveport		
Project location	Shreveport, LA		Owner's Project Manager	David Smith	
Owner's address, phone, email	505 Travis Street Suite 300 Shreveport, LA 71101 (318) 673-6050; david.smith@shreveportla.gov				
Services commenced by this firm	12/17	Total consultant contract cost ($1,000's)		250,000	
Services completed by this firm	12/22	Cost of consultant services provided by this firm ($1,000's)		250,000	

Runway & Taxiway Shift & Extension 5-23 Shreveport DTA, Shreveport, LA: Geotechnical borings with CBR logs, moisture profiles, and CBR profiles for the above referenced site. Our recommendations included pavement design and site grading considerations. Consolidation analysis and flooding impacts. Environmental impact of use of onsite materials and savings. Information was provided for FAARFIELD airport pavement design. QA Testing services. RPR inspection and monitoring.

Firm name	Dave Rambaran Geosciences, LLC		Past Performance Evaluation Discipline(s)*	Road and Bridge	
Project name	**Huntington Lift Station Road and Bridge-City of Shreveport**		Firm responsibility (prime or sub?)	Sub	
Project number		Owner's name			
Project location			Owner's Project Manager		
Owner's address, phone, email					
Services commenced by this firm (mm/yy)		Total consultant contract cost ($1,000's)		65,000	
Services completed by this firm (mm/yy)		Cost of consultant services provided by this firm ($1,000's)		1M / MSA	

Huntington Lift Station Access Road & Bridge Crossing, Shreveport, LA: A geotechnical investigation was performed for this project consisting of a new bridge and crossing and access road of 1,200 and 1,300 leaner feet. The investigation included soil boring and laboratory testing, visual observation of the site and historical aerial search, and recommendations for the deep foundation with active and passive earth pressures, and pavement recommendations. Mr. Rambaran served as the Senior Geotechnical Engineer for this project. QA Testing & Onsite observation during construction. Driven Pile program Load Testing and conformance monitoring.



Firm name	J. W. Porter & Associates, LLC		Past Performance Evaluation Discipline(s)*	Right of Way	
Project name	Raccoon Bayou Drainage Improvements		Firm responsibility (prime or sub?)	sub	
Project number	HMGP Project No.1786-073-0002	Owner's name	Lazenby & Associates, Inc.		
Project location	Ouachita Parish		Owner's Project Manager	Joshua D. Hays, P.E.,M.S.C.E.	
Owner's address, phone, email	2000 North 7th Street, West Monroe, LA 71291; (318) 387-2710				
Services commenced by this firm (mm/yy)	12/21	Total consultant contract cost ($1,000's)	8,000		
Services completed by this firm (mm/yy)	3/22	Cost of consultant services provided by this firm ($1,000's)	6,000		

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

J. W. Porter & Associates, LLC were responsible for preparing 17 abstracts for the following project: Hazard Mitigation Project on Racoon Bayou funded by FEMA and GOSEP for drainage improvements. Linda S. Porter prepared the 17 abstracts.

* 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.

Firm name	J. W. Porter & Associates, LLC		Past Performance Evaluation Discipline(s)*	Right of Way	
Project name	Ruston LP Removal		Firm responsibility (prime or sub?)	sub	
Project number	CPLA22-14	Owner's name	CenterPoint Energy		
Project location	Lincoln Parish		Owner's Project Manager	Ken Gilliard	
Owner's address, phone, email	2458 Levy St., Shreveport, LA (318) 227-7338 kendrix.gilliard@centerpointenergy.com				
Services commenced by this firm (mm/yy)	5/22	Total consultant contract cost ($1,000's)		7,000	
Services completed by this firm (mm/yy)	11/22	Cost of consultant services provided by this firm ($1,000's)		5,000	

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

Linda S. Porter prepared 39 abstracts for right of way acquisition in downtown Ruston for gas line.

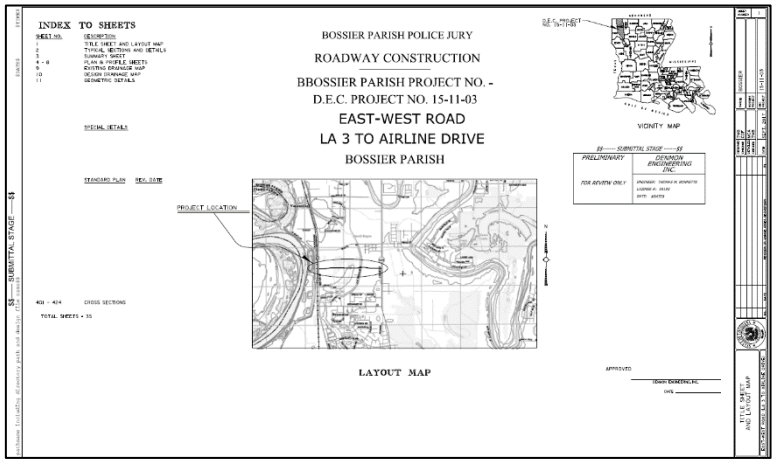
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

Firm name	**Volkert, Inc.**		Past Performance Evaluation Discipline(s)*	**Survey**	
Project name	**Surveying and Engineering Services, Bossier Parish East\West (La. 3 To Airline Highway) Winfield Road Extension**		Firm responsibility (prime or sub?)	**Prime**	
Project number	n/a	Owner's name	**Bossier Parish Police Jury**		
Project location	**Bossier Parish, LA**		Owner's Project Manager	**Eric Hudson**	
Owner's address, phone, email	**P.O. Box 70, Benton, LA 71005 (ehudson@bossierparishla.gov)**				
Services commenced by this firm (mm/yy)	**12/15**	Total consultant contract cost ($1,000's)		**$232.6**	
Services completed by this firm (mm/yy)	**09/17**	Cost of consultant services provided by this firm ($1,000's)		**$232.6**	

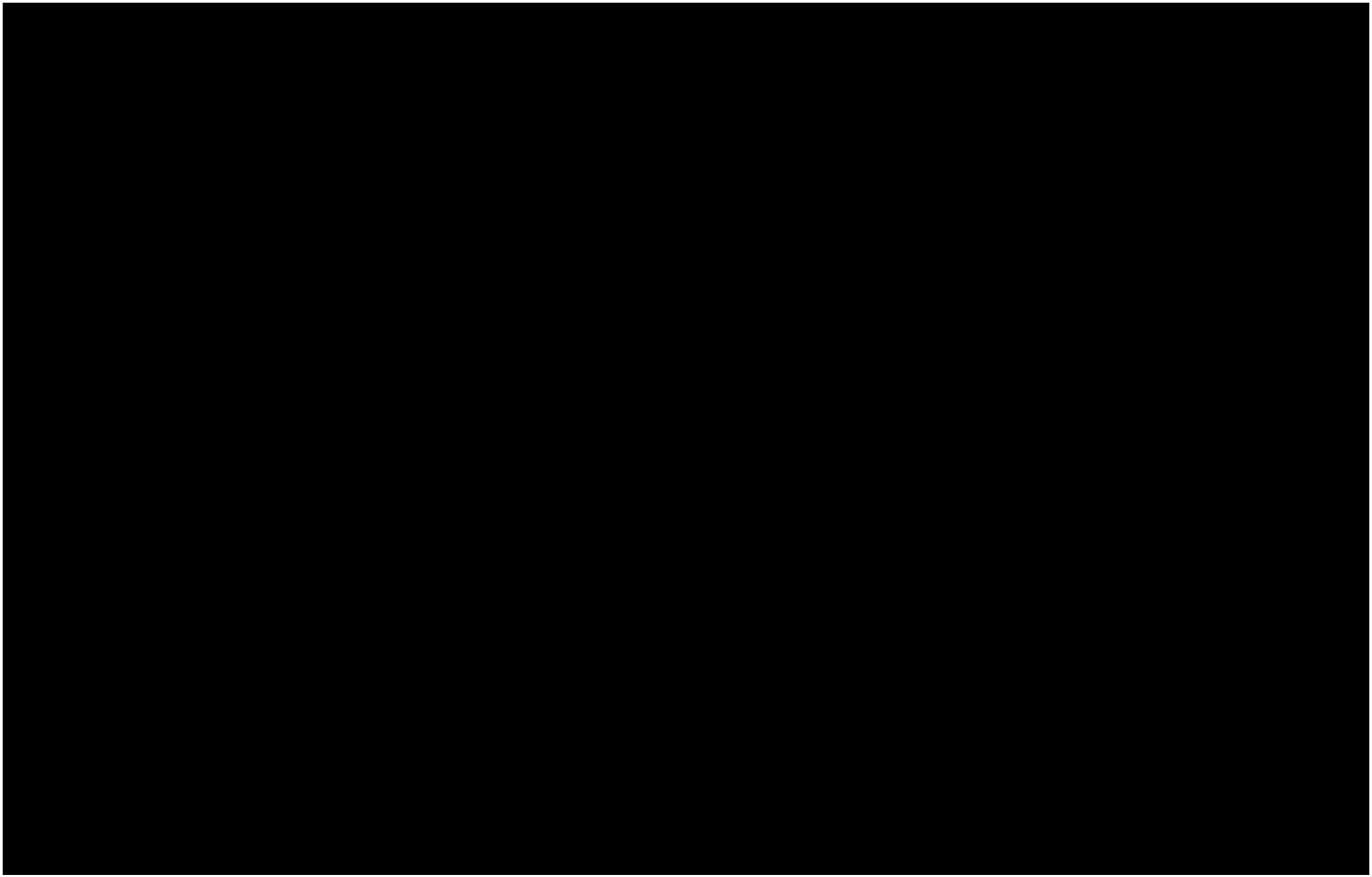
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

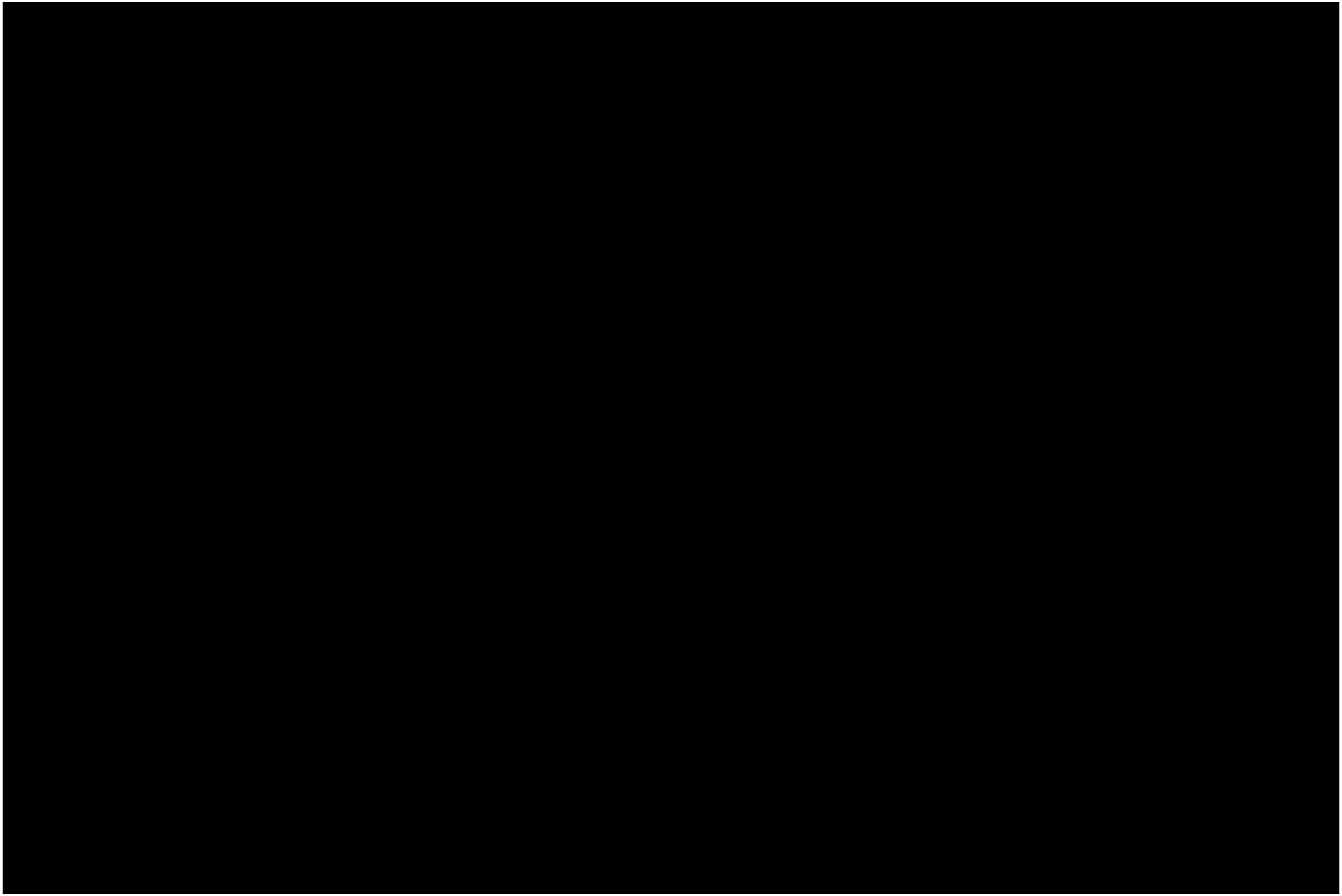
The project shall consist of providing all necessary administration, planning, engineering, and land surveying required for developing the Project to construct a new roadway from Benton Road to Airline Drive along alignment selected by Environmental Study accomplished by Bossier Parish Police Jury. The services for this project were divided into seven (7) phases, which Volkert was responsible for, as follows:

- Phase I - Topographic Surveys & Drainage Map
- Phase II - ROW Surveys & Maps
- Phase III - Preliminary Plans sufficient to establish ROW
- Phase IV - Finalize Preliminary Plans
- Phase V - Final Plans
- Phase VI - Bid & Award
- Phase VII - Construction Supervision



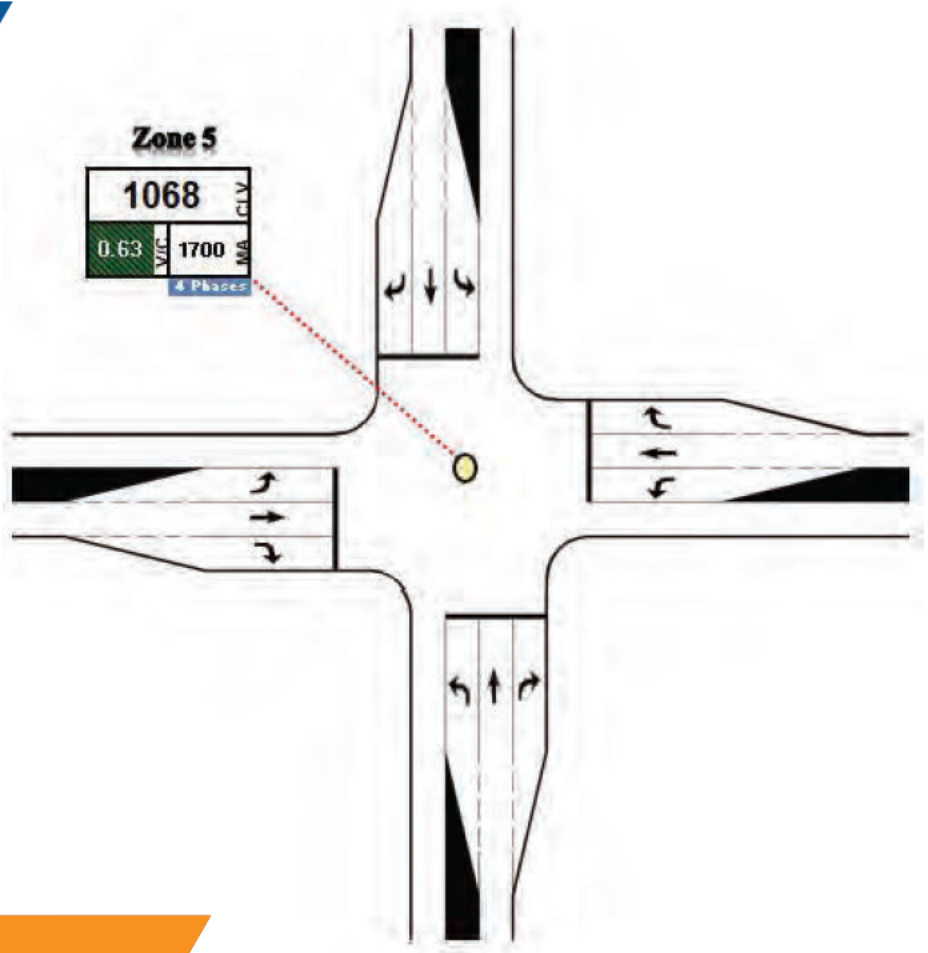
Work included Topographic Surveys, ROW Surveys & Maps and Preliminary Plans sufficient to set ROW for a new roadway from Benton Road to Airline Drive following the alignment established in the East/West Alignment Study. This new roadway is approximately 5,300 feet in length. This work constitutes a portion of the current advertisement for Bossier Congestion Relief Winfield Road.





Neel-Schaffer is currently working on a traffic study for this project to determine the intersection geometry and control. NSI is working to produce plan and profile sheets and refine the horizontal and vertical alignments. We are modeling the Winfield Rd. Extension using InRoads V8i. Shown to the right are graphics taken from the traffic analysis.

Please reference the divider for section 17 for the geometric changes and the plan and profile sheet created by Neel-Schaffer for this project.



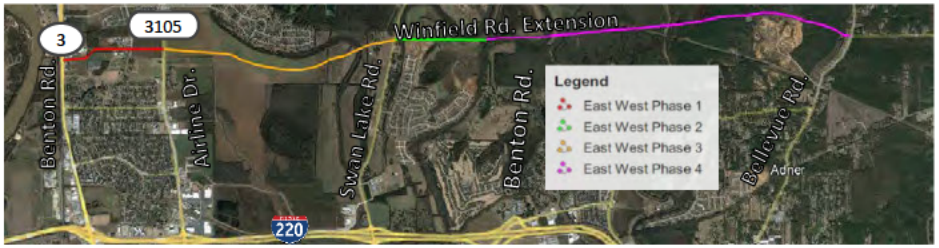
Section 18

Contract No. 4400027600 State Project No. H.003855.5
Entity Contract for Cong Relief Winfield Road
Bossier Parish

Traffic Volume Demand						
	Volume (Veh/hr)				Percent (%)	
	U-Turn	Left	Thru	Right	Heavy Vehicles	Volume Growth
Eastbound	0	160	75	355	4.00%	0.00%
Westbound	0	110	55	30	4.00%	0.00%
Southbound	0	120	485	230	4.00%	0.00%
Northbound	0	165	75	55	4.00%	0.00%
Adjustment Factor	0.80	0.95		0.85		
Suggested	0.80	0.95		0.85		
Truck to PCE Factor				Suggested = 2.00	2.00	
Multimodal Activity Level			Low			
Critical Lane Volume Threshold	2-phase signal		Suggested = 1800 (Urban), 1650 (Rural)		1800	
	3-phase signal		Suggested = 1750 (Urban), 1600 (Rural)		1750	
	4-phase signal		Suggested = 1700 (Urban), 1550 (Rural)		1700	

PROJECT BACKGROUND

This project is a smaller segment of the project which will eventually construct a new urban collector, two-lane roadway between LA 3 and Bellevue Rd within the central, unincorporated portion of Bossier Parish. The proposed roadway is approximately 10 miles long and will follow Alignment 3R as shown in the approved Environmental Assessment (EA) with a design speed of 45 MPH.



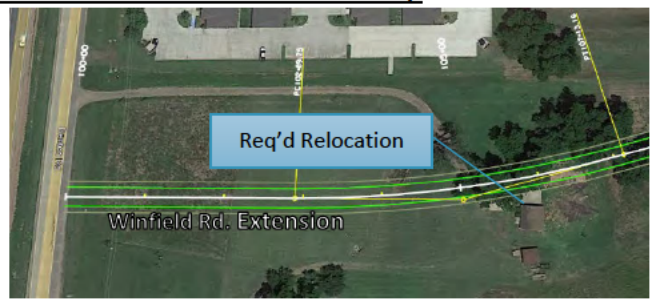
This connector roadway will be constructed in 4 phases as shown above. This RFQ covers phases 1-3. While it is proposed to be a two-lane roadway for the initial construction, the future build will include 4 travel lanes (between LA 3 and Swan Lake Rd). The right-of-way will be acquired now to allow for future widening. The shoulder pavement section will match the travel lanes to allow for future widening.

Project Specific: The project will be initially constructed as a two-lane roadway with right-of-way wide enough for future widening (four lane median divided section). The EA proposed typical section provides for 12ft travel lanes and 8ft shoulders which meets DOTD guidelines for urban collector roadway. The EA proposes for future construction of a five-lane section, which does not meet DOTD current practices. Instead, as part of NSI's current Winfield Rd. project, we have recommended a four-lane median divided roadway which will provide safety benefits and allow for the construction of turn lanes as the corridor is developed. This section meets DOTD current practices. Neel-Schaffer, Inc. (NSI) is in the process of determining intersection geometry and control for the Winfield Rd. Extension and will produce plan and profile sheets as part of the project.

East-West Corridor (Winfield Rd. Extension) EA: The EA for the project considered several alternatives including the Alignment 3R which is the basis for this project. There are several mitigations provided within the EA which will impact its roadway design. They are listed below along with how the NSI team will address them.

Mitigations, Commitments and Permits (as stated in the Environmental Document):

- Project Challenge: The selected alignment requires right-of-way acquisition and Relocation Mitigation. There is one relocation anticipated near Benton Rd. (see image to the right). The current SOW only includes Title Take-off's which will not provide the level of title research required for this work to be completed. Solution: We understand the expedited timeline which Bossier Parish would like this project completed. To streamline services we have included a Real Estate Consultant (J. W. Porter & Associates, LLC). Should DOTD desire, our team can provide title research with more detail than title take-offs.



Neel-Schaffer, Inc.

- Project Challenge: A "No-Rise/No-Impact" Certification will be required because this project crosses the 100-year floodplain (Zone AE) and regulatory floodway. Solution: Our bridge H&H lead has provided this service for DOT's throughout the southeast and our project manager recently completed this task for a new roadway crossing the Vermilion River.
- Project Challenge: Permits are required for the project (404 permit, Levee Crossing Permit, &more). Solution: NSI has the capability to complete this service and/or provide the supporting design files to others for completion of services.
- Project Challenge: Page 5-5 of the EA states that the addition of a new public boat ramp will be evaluated as part of the rights-of-way acquisitions and final design. Solution: We are prepared to assist with this task, if required.
- Project Challenge: A qualified petroleum engineer will conduct a feasibility study for each impacted oil or gas well. Solution: NSI has worked on projects with impacted wells. We will first avoid the impact but in the case where this is not possible, we will provide the supporting road design files.

NSI is currently working on a traffic study for this project to determine the intersection geometry and control. NSI produced plan and profile sheets and refinee the horizontal and vertical alignments. We modeled the Winfield Rd. Extension using InRoads V8i.

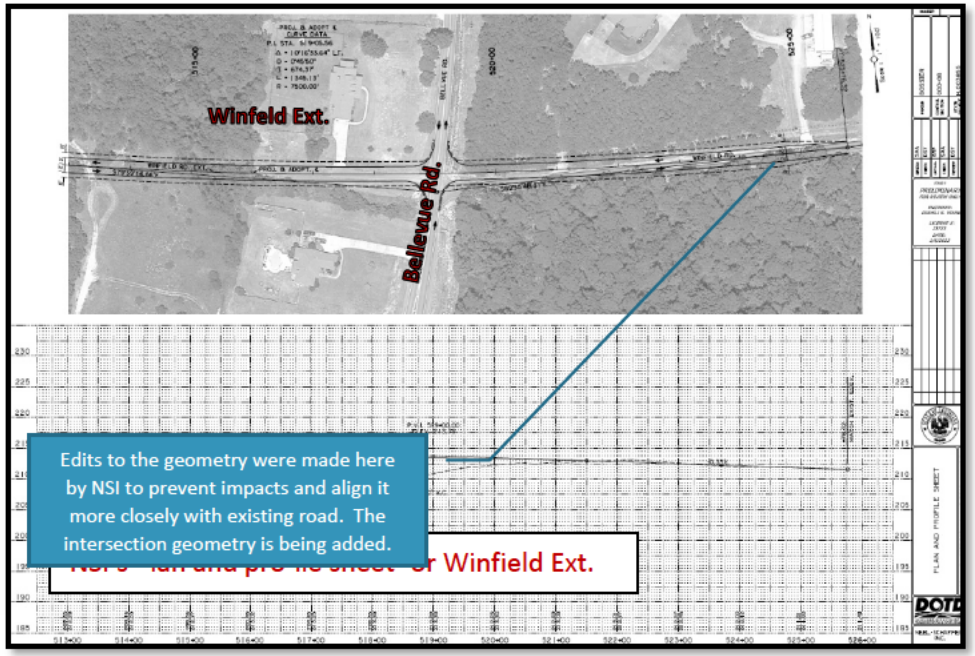
APPROACH AND METHODOLOGY

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

Survey Services: Our team will complete the surveying services, including existing drainage mapping. We will obtain the numbered field survey books from DOTD and a submit a survey line sketch for review and approval. The topographic survey shall adhere to all modern survey theory, practice, and procedures, and follow the latest version of the DOTD Location and Survey Manual including typical surveying methods as applied by DOTD. This includes all accepted horizontal and vertical control standards as stated in the manual. The DOTD feature table code list and symbols shall be utilized in accordance with the latest edition of the survey feature code guidebook produced by the DOTD Location and Survey Section and Automation.

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. **Project Specific:** We have the existing available data such as as-built plans, existing studies, traffic data, LiDAR data and prior design plans. We have imported the prior vertical and horizontal corridor geometry into InRoads and made edits to bring it into compliance with the design requirements for the 45 MPH design speed. We created templates to determine limits of construction and the apparent or proposed ROW limits. *NSI created the intersection geometry based on our traffic teams recommendations. This is new data which was not considered as part of any prior work by others.* Our team will utilize this to quickly determine the bridge Type, Size and Location (TS&L). This will allow the topo survey and geotechnical investigation to advance as early as possible. The plan and profile sheet below produced by NSI shows the horizontal and vertical alignments which have been refined by NSI.



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 V8i (SS2) and our construction cost estimates will utilize current DOTD standard bid items and the DOTD's Bid history estimate tool, with consideration for the project location and magnitude of items. This is important due to the unstable, escalating construction costs.

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. If superelevation is required near bridge ends or on the bridges. 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. 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.

Bridge Hydraulic and Scour Design The majority of the proposed roadway alignment is within the 1% Annual Chance or 100-year floodplain (Zone AE) and the new roadway will cross the regulatory floodway in four locations: Benoit Bayou (one bridge crossing), Willow Chute (two bridge crossings), and Flat River Drainage Canal (one bridge crossing). The bridge hydraulic and scour analyses will be completed in accordance with current FEMA, FHWA, and DOTD design policies and in accordance with Bossier Parish Flood Ordinances.

The NSI team will aim to design these bridge crossings to achieve a "No-Rise/No-Impact" Certification and will seek approval from the Bossier Parish Floodplain Administrator (Butch Ford). We will utilize HEC-HMS to determine the peak flows, HEC-RAS to calculate the water surface elevations, and HEC-18 methodology to calculate the scour depths for each bridge. Bridges will be designed with proper clearance and proper substructure foundation depths to withstand a maximum flood and scour event (100-year design and 500-year check event). The HEC-RAS models will utilize the effective FEMA data, if available, and will be analyzed for sufficient distance upstream and downstream to ensure that no increases in Base Flood Elevation (BFE), floodway widths, or floodway elevations will be imposed by the project anywhere in Bossier Parish or adjacent communities. The Duplicative Effective and Corrected Effective models will be developed and project survey data and LiDAR will be utilized to create the existing conditions models for each stream. The NSI team's hydraulic engineers will coordinate with our structural and roadway designers to select the optimal bridge lengths, span arrangements, superstructure and substructure types, and roadway approach grades to yield No-Rise/No-Impact conditions for the proposed bridge crossings, while meeting all applicable engineering design criteria.

We will submit the signed and sealed No-Rise/No-Impact Certification which stipulates no increases to BFEs, floodway widths, or floodway elevations at the new cross sections and all existing cross sections within the models.
Atkins is currently working on developing models within this watershed as part of the Louisiana Watershed Initiative. It is anticipated that the models will be available late this year and we will incorporate the data from the LWI study into the Winfield Road Extension project, as applicable.

If, for any reason, a given bridge design cannot meet the requirements of a No-Rise/No-Impact Certification, then a Conditional Letter of Map Revision and/or Final Letter of Map Revision may be required. This will be coordinated with the Bossier Parish Floodplain Administrator.

Our *roadway 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.

Our *geotechnical investigation and design* will be completed for each of the bridge sites (which could include both bridges and box culverts). It will include the collection of approximately 17 bridge borings, 43 subgrade borings and 7 CPT soundings, per the DOTD SOW and the bridge borings will be at a minimum of 120ft in depth. The number of borings will be set based on the bridge length and shallow borings shall be obtained at the bridge ends. The actual number and location of borings will be refined based on project specific details and the approved geotechnical investigation plan. The investigation shall include soil borings, laboratory testing, optional cone penetrometer test (CPT) soundings, soil classification, site characterization, and soil boring logs. This work shall conform to the applicable ASTM designations and FHWA Geotechnical Engineering Circular No. 5. The geotechnical data report and geotechnical interpretation report shall be submitted to DOTD. All geotechnical data shall be provided to DOTD in gINT file cloned from DOTD's standard gINT schema. Soil boring logs (signed and sealed) shall be provided in included in the plans. In addition to bridge design, slope stability shall be analyzed for end slopes steeper than 3:1 and consolidation/settlement analysis will be completed in areas where fill may lead to settlement concerns. Along segments where there is not enough available space for slopes, retaining walls may be required. If retaining walls are required, our team will determine the most appropriate retaining wall type (MSE, Gravity Concrete Walls or Sheet Pile Walls). The DOTD approved wall system will be shown on the plans (station and offset, wall height, minimum embedment and backfill material requirements. If sheet piles are required, our geotechnical engineer will complete the design with resistance factors from AASHTO Bridge Design Specifications, and with the use of the USACE Design Guide "EM-1110-2-2504- Design of Sheet Pile Walls" as a reference.

Environmental Clearances and Permits: 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.

Project Specific: Our traffic team is working on the traffic analysis and has recommended the intersection control alternatives which will be considered in more detail as part of the Tier 2 analysis which NSI is currently completing. These are shown to the right.

Intersection evaluated by NSI

Winfield Extension at LA 3 Benson Rd
- Traditional Traffic Signal
- Signalized R-CUT
- Roundabout
- Continuous Green T -Intersection

Old Brownlee Rd.
- Two Way Stop Control

Winfield Extension at Airline Dr.
- Traditional Traffic Signal
- Roundabout

Winfield Extension at Swan Lake Rd.
- Traditional Traffic Signal
- Roundabout

Winfield Extension at Bellevue Rd.
- Traditional Traffic Signal
- Two-Way Stop Control
- Roundabout

At locations where signals are required, the traffic signal design will be completed in accordance with DOTD's Traffic Signal Manual V3 (7-1-2020), standard specifications and standard details. The traffic signal plans will use DOTD's Traffic Signal Inventory Construction Plan V3.2 form for developing the plans.

30% Preliminary Plans: The proposed improvements must prevent impacts to the developed portions of the corridor and impacts to the natural environment (flood plan, flood way) and impacts to oil and water wells.

The 30% preliminary submittal will include the title sheet, typical sections and roadway plan and profile sheets with existing topography shown. 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. If DOTD requires the NSI team complete the pavement design, it will be provided for DOTD review.

60% Preliminary Plans: Our 60% preliminary plan set will include all the sheets previously submitted but in more 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, superelvation 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. 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. Property maps will start once 60% preliminary plans are completed.

90% Preliminary Plans and 95% Preliminary Plans/Plan-In-Hand (PIH): The 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) and the suggested sequence of construction sheets. 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. We will attend and summarize comments of the PIH meeting.

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 preliminary plans are approved by DOTD, an environmental decision is received, a fee for the additional service is determined and a notice-to-proceed with final plans has been issued, we will begin preparing the 30% and 60% Final Plans.

60% Final Plans: We will submit updates of the deliverables included in the prior plans. 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 final bridge geometry. Non-standard specifications (if required) will be provided. 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. As – Designed Bridge Rating Reports will also be provided.

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).

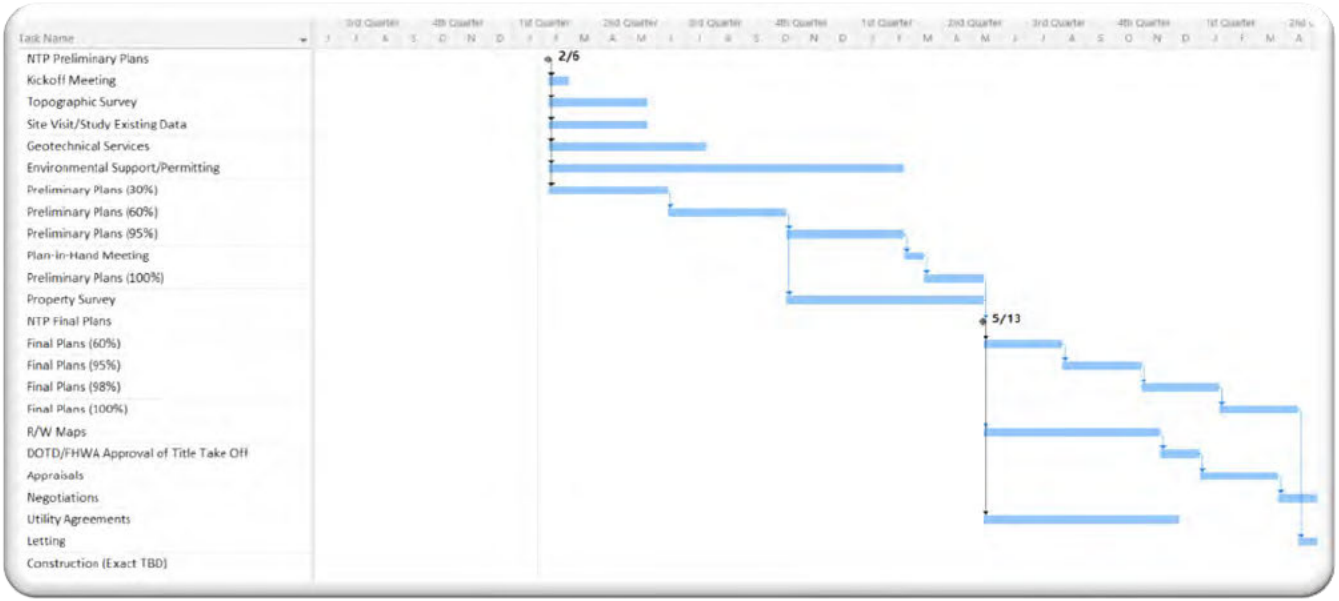
98% Final Plans: We will address the ACP comments and complete the final cost estimate, provide the SWPPP form, NOI form, and provide the DOTD Contract Time Worksheet. During this phase, the Plan Quality Unit will review and once approved, we will produce the 100% Final Plan Set for the Chief Engineer's 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 (if required) will provide review of shop drawings and respond to RFI's.

Past Performance on Similar DOTD Projects: 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."



Anticipated Project Schedule (exact schedule to be determined)

We are uniquely capable of successfully preforming the tasks included in this contract but don't just take our words for it. Instead, we suggest you ***consider the opinion of our DOTD PM's.***

DOTD PERFORMANCE REVIEW QUOTE:

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."

Section **19-23**

Contract No. 4400027600 State Project No. H.003855.5
Entity Contract for Cong Relief Winfield Road
Bossier Parish

DOTD PERFORMANCE REVIEW QUOTE:

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."

19. Workload:

Firm(s)	Past Performance Evaluation Discipline(s)*	State Project Number	Project Name	Remaining Unpaid Balance**
Neel-Schaffer, Inc.	Planning	SPN 736-99-1548	Travel Demand Model Support Services Statewide (PRIME)	$55,425
Neel-Schaffer, Inc.	Road	SPN 4400005673	I-49 South at Verot School Road, Lafayette Parish, (SUB)	$201,939
Neel-Schaffer, Inc.	Traffic	4400010428 S.A. 4, H.004774; H.007300.6	Kansas Lane - Garrett Road Connector and I-20 Improvements (SUB)	$1,400
Neel-Schaffer, Inc.	ITS	4400010428 EWL #3; H.004774.5, H.007300	Kansas Lane - Garrett Road Connector and I-20 Improvements (SUB)	$1,127
Neel-Schaffer, Inc.	Traffic	4400010428 S.A. 5, H.004774; H.007300.6	Kansas Lane - Garrett Road Connector and I-20 Improvements (SUB)	$9,964
Neel-Schaffer, Inc.	Road	4400013850, H.009290.5	LSU Lab School SRTS Project	$13,000
Neel-Schaffer, Inc.	Planning	4400015733, H.972374.1	Local Public Agency Documented Planning Process, Statewide	$191,355
Neel-Schaffer, Inc.	Road	4400017293, H.010616	I-20: LA 544 Overpass Replacement	$26,300
Neel-Schaffer, Inc.	ITS	4400016364, H.013256.6	ITS: I-10 ITS Scott to Lake Charles Technical Support Services During Construction	$12,233
Neel-Schaffer, Inc.	ITS	4400016364, H.011504.5	Alexandria ITS Phase 2	$95,738
Neel-Schaffer, Inc.	ITS	4400016364, H.015136.1	Northshore Regional ITS Architecture Update	$44,619
Neel-Schaffer, Inc.	Traffic	44-17438, H.013284	MRB South GBR: LA 1 to LA 30 Connector, Ascension, EBR, Iberville & WBR	$182,033
Neel-Schaffer, Inc.	Traffic	4400013850, H.013622.5	LRSP Ardenwood Dr. Road Diet	$3,954
Neel-Schaffer, Inc.	Traffic	4400018271, H.014746.1	LA 383 Corridor Study	$14,255
Neel-Schaffer, Inc.	Planning	4400018271, H.014746.1	LA 383 Corridor Study	$105,500
Neel-Schaffer, Inc.	Safety	440023689, H.015148.5	District 03 Safety Investment Plan	$209,220
Neel-Schaffer, Inc.	Planning	4400021094	Update Statewide Transportation Plan and Travel Demand Model	$218,474
Neel-Schaffer, Inc.	Safety	4400023689, H.015227.5	US 61 @ Victoria Dr. Ped Crossing	$62,166
Neel-Schaffer, Inc.	Traffic	4400026458, H.014710.5	Cedar Street Ext. to LA 22 and Roundabout	$169,073
Neel-Schaffer, Inc.	Planning	4400018271; HOI 1242	LA 384 (Big Lake Rd to McNeese Street)	$561,345
Neel-Schaffer, Inc.	Road	4400024927, H.0 15226.5	US 90: Roundabout at LA 101	$377,801
Neel-Schaffer, Inc.	Road	4400013850, H.015011.5	Local Rd. Striping & Signing (Ascension)	$3,759
Terracon Consultants, Inc.	Geotechnical	4400019014 | H.003931.5-2	I-10: Calcasieu River Bridge Additional Borings	$81,709
Terracon Consultants, Inc.	Geotechnical	4400019014 | H.002868	I-49 Frontage Road Bridges PDA Testing	$190,415
Terracon Consultants, Inc.	Geotechnical	4400019014 | H.012033	Cross Bayou and Caney Bayou	$20,362

Firm(s)	Past Performance Evaluation Discipline(s)*	State Project Number	Project Name	Remaining Unpaid Balance**
Terracon Consultants, Inc.	Geotechnical	4400006191 | H.012569.5	Little Sugar Creek Bridge	$5,419
Terracon Consultants, Inc.	Geotechnical	4400006191 | H.000385.5	US190: LA415 & RR Overpass	$213,763
Terracon Consultants, Inc.	Geotechnical	4400006191 | H.005121.5	LA-1 and LA-415 Connector	$227,266
Terracon Consultants, Inc.	Environmental	4400012893 (SA1) | H.004273.5	Lafayette Urban Section (I-49 Lafayette Connector) Phase II ESA, Lafayette Parish	$25,197
Terracon Consultants, Inc.	Geotechnical	4400006191 | H.005967	Nelson Road Extension and Bridge	$52,534
Terracon Consultants, Inc.	Geotechnical	N/A | H.011670.6	Loyola Interchange Design-Build	$95,622
Terracon Consultants, Inc.	Geotechnical	4400022901 | H.011094.5	Hearne Ave. – Cross Bayou Bridge Replacement	$141,755
HNTB Corporation	Environmental	H.003931	I-10 Calcasieu NEPA Restart (Lake Charles, LA)	$383,993
		State Contract No. 44-17329	IDIQ Contract for Innovative Procurement Support Services	
	Bridge	H.003931.5	Calcasieu River Bridge (Sampson St)	$375,529
	Other (Railroad)	H.015223.1	BR No Pass Rail	$249,740
	Other (Railroad)	H.003931	Calcasieu River Bridge (RR)	$1,133,570
	Bridge	State Contract No. 44-17264	Retainer Contract for Bridge Preservation	
		H.001166.6	Caddo Lake CRES	$109,542
		H.002337.5	LA 327-5 Bayou Fountain	$10,193
		H.010251.5	Chippewa Street Pump Station	$274,207
		H.014454.6	Boeuf River Bridge CRES	$33,316
		H.014591.5	I-12: US 61 Bridges Girder Repairs	$51,757
	Bridge	State Contract No.44-24189	Statewide Bridge Preservation	
			Task Order 1 – H.010319 I-110 North St to Plank Rd	$424,866
	Transportation	State Contract No.44-23812	Statewide Weigh Station Assessment, Rehab and Plan Development	
			TO1 H.015377.1 Weigh State Assessment, Rehab and Plan	$1,013,361
	Other (Tolling)	State Contract No. 44-23640	Task Order No. 2: PIBC Integration	$429,887
			Task Order No. 3: LA1 Facility Implementation	$502,742
			Task Order No. 4: Marketing	$208,375
			Task Order No. 6: Toll Services	$2,611,226
	Other (Planning)	State Contract No. 44-21094	Statewide Transportation Plan	$2,510,349
	Bridge	State Contract No. 44-25029	IIJA Off-System Bridge Program	$2,600,000
	Bridge	State Contract No. 44-23512	Statewide Complex Bridge Inspection	
		H.009730.5	Task Order No 1	$1,242,115
	CE&I/OV	State Contract No. 44-4900		
		H.008145.6	LA 1 Phase 2	$6,637,675
Forte and Tablada, Inc.	Road, Bridge	H.005734.5	LA 447 Corridor Improvements	$192,463
Forte and Tablada, Inc.	Bridge, Survey	H.011965.6	LA 47:IWGO Bridge Rehab	$53,871

Forte and Tablada, Inc.	Bridge	H.009859.5	Load Rating Retainer - Load Rate Statewide Bridges	$350,924
Forte and Tablada, Inc.	Bridge	H.000303.6	Load Rating Retainer - Danziger Bridge Rehab	$11,442
Forte and Tablada, Inc.	Bridge	H.009730.5	Load Rating Retainer - T-1 Steel Weld Inspections	$11,152
Forte and Tablada, Inc.	Bridge	H.015228.5	Load Rating Retainer - LA 70: Sunshine Bridge	$329
Forte and Tablada, Inc.	Bridge	H.009859.5	Load Rate Selected Bridges	$2,701,272
Forte and Tablada, Inc.	Bridge	H.015341	D61 (EBR): IIJA Off-System Bridge Replacement	$279
Forte and Tablada, Inc.	Bridge, Survey	H.014261	Off-System Highway Bridge Program, Rapides Parish	$3,136
Forte and Tablada, Inc.	Bridge, Survey	H.014981.5	OSBR Hosston River Road over Kelly Bayou	$3,194
Forte and Tablada, Inc.	Bridge, Survey	H.014989.5	OSBR Neff Lane over Wind Creek	$33,662
Forte and Tablada, Inc.	Bridge, Survey	H.014990.5	OSBR South Tiger Bend Road and East Achord Road Bridges	$62,300
Forte and Tablada, Inc.	Survey		Rural Bridge Replacement Initiative	$666,810
Forte and Tablada, Inc.	Survey	H.011684.5	LA 327 Spur: Staring Lane Extension Route LA 327-S	$50,279
Forte and Tablada, Inc.	Survey	H.014416	LA 3125 at LA 3274 Roundabout	$16,572
Forte and Tablada, Inc.	Survey	H.012563.5	LA 73 Bayou Manchac Bridge	$18,049
Forte and Tablada, Inc.	Survey	H.015047.1	Three Mile Lake Flood LWI (Prime is Michael Baker, Inc.)	$37,093
Forte and Tablada, Inc.	Survey	H.004273.5	I-49 Connector Lafayette (Prime is Stantec)	$199,744
Dave Rambaran Geosciences, LLC				N/A
J.W. Porter & Associates, LLC				N/A
Volkert, Inc.	Road	Contract No.44-5267 S.P. No. H.003074 & H.009087	Route I-10: Williams Blvd. to Veterans Blvd. & Loyola Drive to Williams Blvd. – Sub-consultant, Jefferson	$1,736 (On Hold)
Volkert, Inc.	Road	Contract No. 44-5142 S.P. No. H.001309.5	MacArthur Blvd. Phase II Final Plans – Sub-Consultant, Jefferson Parish, LA	$77,678 (On Hold)
Volkert, Inc.	Bridge	Contract No. 44-4726 S.P. No. H.004113	I-12 to Bush LA 3241 (LA 435 to LA 40 / LA 41), - Sub Consultant, St. Tammany Parish, LA	$41,796
Volkert, Inc.	Bridge	Contract No.44-8113 S.P. No. H.011152.5	I-12 Widening (US 190 to LA 59) Route I-12 – Sub Consultant, St. Tammany Parish, LA	$20,052.00
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. Varies	IIJA Off-System Bridge Program District 04	$2,000,000
Volkert, Inc.	Traffic	Contract No. 44-4787 S.P. No. H.009250	IMR I-10 Highland Road to LA 73, East Baton Rouge and Ascension Parishes, LA	$1,215,644
Volkert, Inc.	Survey	Contract No. 44-17068	Louisiana Watershed Initiative (LWI) Modeling Contract Region 3, Sub Consultant -Work completed	$139,109
Volkert, Inc.	Survey	Contract No. 44-17068	IDIQ Contract for Louisiana Watershed Initative (LWI) Modeling Contract Region 2, Sub Consultant, Task Order 1, 2 and 3	$213,815
Volkert, Inc.	Survey	Contract No. 44-17764 S.P. No. H.013284	IDIQ Contract for Engineering and Inspection Services of State Regulated Dams with Majority of Work in Districts 04,05.08 and 58, Statewide, Tasks Order 4 & 7	$93,545
Volkert, Inc.	Survey	Contact No. 44-19871	IDIQ Contract for Design of Safety Projects, Statewide with Majority of Work I Districts 04,05, and 58.Sub-Consultant	N/A

Neel-Schaffer, Inc.

Volkert, Inc.	Other -Procurement Services	Contract No. 44-17328 S.P. No.H.015372	IDIQ Contract for Innovative Procurement Support Services, Statewide - No open task orders	N/A
Volkert, Inc.	CE&I/OV	Contract No. 44-16173 S.P. No. H.003370	I-220/I-20 Interchange Improvements & Barksdale AFB Access, Bossier Parish, LA	$388,970
Volkert, Inc.	CE&I/OV	H.004791	LA 23: Belle Chasse Bridge and Tunnel Replacement (HBI) Plaquemines Parish, LA	$5,552951
Volkert, Inc.	CE&I/OV	Contract No. 44-16980 H.013897	College Drive Flyover Ramp. I-10/I-12 West East Baton Rouge Parish, LA	$523,625
Volkert, Inc.	CE&I/OV	Contract No. 44-21740 H.004100.6	Phase I W. of Washington Street to Essen Lane (CE&I) Phase I Segment 01. W. of Washington Street to Acadian Thruway, Route I-18. East & West Baton Rouge Parishes, LA	$8,068,216
Volkert, Inc.	CE&I/OV	H.001234.6	LA 1 Port Allen Canal Bridge Replacement (Phase 1) (HBI) (CE&I), West Baton Rouge Parish, LA – Subconsultant	$458,917
Volkert, Inc.	CE&I/OV	H.007811.6, H.000710.6, H.002273.6, and H.001352.6	Comite Diversion Canal CE&I and Utility Relocation, East Baton Rouge Parish, LA – Subconsultant	$414,475
Volkert, Inc.	CE&I/OV	Contract No. 44-19950, H.003003.6-2	Retainer Contract 44-19950 IDIQ Contract for Construction Engineering and Inspection Services (CE&I) Statewide with Majority in District 03 Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Mart, St. Mary, and Vermilion Parishes Task Order 1 I-10 E Jct I-49 to LA 328, Lafayette Parish - Subconsultant	$38,584
Volkert, Inc.	CE&I/OV	Contract No. 44-19950, H.002868.6	Retainer Contract 44-19950 IDIQ Contract for Construction Engineering and Inspection Services (CE&I) Statewide with Majority in District 03 Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Mart, St. Mary, and Vermilion Parishes – Task Order 4 – I-49 S Ambassador Caffery/US 90 Interchange, St. Martin & Lafayette Parishes– Sub- consultant	$459,466
Volkert, Inc.	CE&I/OV	Contract No. 44-19950, H.013265.6	Retainer Contract 44-19950 IDIQ Contract for Construction Engineering and Inspection Services (CE&I) Statewide with Majority in District 03 Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Mart, St. Mary, and Vermilion Parishes – Task Order 5 – US 90 LA 14 - LA 83, Iberia Parish – Sub- consultant	$180,804
Volkert, Inc.	CE&I/OV	H.008145.6	LA 1: Leeville to Golden Meadow Phase 2 (CE&I) SA 1 Fabrication Lafourche Parish (Subconsultant to ECM)	$7,226,226
Volkert, Inc.	CE&I/OV	H.011965.6	LA 47: IWGO Bridge Replacement (HBI) (CE&I), Orleans Parish - Subconsultant	$340,000
Volkert, Inc.	CE&I/OV	H.009498.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 1 LA 121 Calcasieu River Bridge Fabrication, Rapides Parish	$20,495

Neel-Schaffer, Inc.

20. Certifications/Licenses:

See attached

Certificate of Completion

presented to

Nick Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Nick Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Nick Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Dishili Young

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: March 10, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Dishili Young

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: March 10, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Dishili Young

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 11, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Charles Adams

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Charles Adams

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Charles Adams

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Gary Leblanc

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

Certificate of Completion

presented to

Gary Leblanc

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

Certificate of Completion

presented to

Gary Leblanc

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

Certificate of Completion

presented to

Jonathan Duhe

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Jonathan Duhe

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Jonathan Duhe

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Neel-Schaffer, Inc.

Certificate of Completion

presented to

Kirk Gallien

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
Neel-Schaffer, Inc.

Certificate of Completion

presented to

Kirk Gallien

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
Neel-Schaffer, Inc.

Certificate of Completion

presented to

Kirk Gallien

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

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Neel-Schaffer, Inc.

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

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

NEEL-SCHAFFER
Solutions you can build upon

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HNTB

ENTITY CONTRACT FOR CONG RELIEF

WINFIELD ROAD

BOSSIER PARISH

Bridge Quality Management Plan

CONTRACT NO. 4400027600

STATE PROJECT NO. H.003855.5

F.A.P NO. H003855

NEEL-SCHAFFER, INC. (PRIME CONSULTANT)

FORTE & TABLADA, INC. (SUB-CONSULTANT)

TERRACON CONSULTANTS, INC. (SUB-CONSULTANT)

HNTB, CORP. (SUB-CONSULTANT)

JW PORTER AND ASSOCIATES, LLC. (SUB-CONSULTANT)

DAVE RAMBARAN GEOSCIENCES, LLC. (SUB-CONSULTANT)

VOLKERT, INC. (SUB-CONSULTANT)

"Solutions you can build upon."

August 2023

TABLE OF CONTENTS

1. INTRODUCTION

NEEL-SCHAFFER, INC. (NSI) (Prime), in association with **FORTE & TABLADA, INC., TERRACON, INC., HNTB, CORP., JW PORTER AND ASSOCTIATES, LLC., DAVE RAMBARAN GEOSCIENCES, LLC., AND VOLKERT, INC.** (SUB-CONSULTANTS), is pleased to submit our QC/QA Plan for Bridge Design as required by the Louisiana Department of Transportation and Development (LADOTD) in the Advertisement. This document constitutes as our proposed QC/QA Manual.

The team has a goal of providing timely, efficient, and high quality bridge engineering services to its clients. Safety is a top priority for the staff of qualified professionals. Successful completion of a project requires top-quality planning, teamwork, management, and a thorough review of all plans and documents.

These QA/QC procedures and guidelines have been developed to ensure that the 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.

To best serve the LADOTD, NSI has developed this Quality Control/Quality Assurance (QC/QA) plan. Since the LADOTD is one of our primary clients, we have incorporated the QC/QA requirements of the LADOTD into this plan to produce quality sets of plans. According to the LADOTD's Construction Plans Quality Control/Quality Assurance Manual, a quality set of plans should have the following characteristics (The 5 C's): complete, consistent, clear, correct, and constructible. Our goal is to meet the requirements of the LADOTD Bridge Design Section Policy on Quality Control and Quality Assurance and the Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17) in order to achieve the desired result of a quality set of plans.

The following QC/QA plan has been developed consistent with LADOTD specially for **State Project NO. H.003855.5, F.A.P NO. H003855, Entity Contract For Cong Relief Winfield Road** and input from the LADOTD. The QC/QA Plan has been made to assure the LADOTD that the Design Team understands the complexities associated with the project and are prepared to produce an accurate and complete submittal. **The process ensures that a quality set of Construction Plans will be submitted for Bid, thus, minimizing Plan Revisions and Plan Changes.**

1.1 Project Overview

The project scope of work includes preparing plans, specifications and design documentation for a new two-lane roadway from Benton Road (LA 3) to 1 mile east of the Swan Lake Road intersection. The design of the project will be in accordance with the Selected Alignment (3R) shown in the approved Environmental Document. The roadway, an off system route, will consist of two (2) 12ft lanes with 8ft shoulders with right-of-way clearance sufficient for future widening to a four (4) lane divided highway. In addition to the roadway design, two (2) bridges will be constructed along the route. Services will also include topographic survey, property survey, title research, work and updates, R/W Maps and geotechnical analysis and design.

1.2 Definition of Terms and Positions

Quality Control (QC): Procedures of checking the accuracy and consistency of the calculations and the drawings, detecting and correcting design omissions and errors before the design plans are finalized, and verifying the specifications for the load-carrying members are adequate for the service and operation loads. Includes 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): Procedures of reviewing the work to ensure the quality control procedures are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications.

Designer: Engineer directly responsible for the development of design calculations, drawings, special provisions, and cost estimates. Must be either a licensed professional engineer or engineer intern.

Design Checker: Engineer responsible for performing a full technical review of the design calculations, special provisions, drawings, and cost estimates. Must be either a licensed professional engineer or engineer intern, however, if the designer is an engineer intern the design checker must be a professional engineer.

Detailer: Individual responsible for preparing drawings. This individual(s) is responsible for the development of the drawings through the use of required CAD technology.

Reviewer: Engineer responsible for ensuring that the QC process has been followed as outlined. The Reviewer is responsible for ensuring that submittals are complete and in accordance with LADOTD Bridge Design practices, policies and procedures.

Engineer of Record (EOR): Qualified Engineer responsible for stamping the Final Set of plans and assuring that the QC/QA certification is signed by all responsible parties. 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

Team Leader: Project manager or task assignee responsible for overseeing the project and staff on the project. Responsible for conducting audits and ensuring quality control plans are adhered to for each discipline.

Constructability Review: A design review performed by the Contractor or appropriate construction services personnel to assess the feasibility of the proposed design from a construction perspective.

Design Criteria: Document agreed to by the LADOTD and Consultant prior to design that establishes the design guidelines and procedures to be used for the design of the project. The Design Criteria shall include a Checklist that lists all the criteria, factors, software and general guidelines to be used for each discipline required for this project. The Checklist is based upon the LADOTD Bridge Design Section Policy on Quality Control and Quality Assurance, Appendix A: Design Criteria Checklist.

2. BRIDGE DESIGN TEAM AND CONSULTANT RESPONSIBILITIES

As the Prime Consultant, **NEEL-SCHAFFER, INC.** has selected experienced consultant firms with qualified personnel to assist in the design of the required bridge structures for the project. The following sections describe the Team and each firm's roles and responsibilities.

2.1 Bridge Design Team Members

- ✓ ***As Prime Consultant, NEEL-SCHAFFER, INC. shall have ultimate responsibility for the bridge design, quality control and quality assurance.***

NEEL-SCHAFFER, INC. shall work in concert with FORTE & TABLADA, INC., TERRACON, INC., HNTB, CORP., DAVE RAMBARAN GEOSCIENCES, LLC., AND VOLKERT, INC. to ensure that the design meets the project requirements.

As the Sub-Consultants, FORTE & TABLADA, INC., TERRACON, INC., HNTB, CORP., DAVE RAMBARAN GEOSCIENCES, LLC., AND VOLKERT, INC. shall have a shared role in the bridge design.

Forte & Tablada, Inc. will be performing Surveying, ROW services and H&H support for this project.

Terracon, Inc. will be performing Geotechnical Engineering services for this project.

HNTB, Corp. will be performing Bridge Design and Geotechnical Design services for this project.

Dave Rambaran Geosciences, LLC. Will provide Geotechnical support for this project.

Volkert, INC. will be performing Roadway QC/QA services for this project.

Our team has assigned for this project the following engineers for bridge design, and hydraulic analysis and design:

- **John Bernard, PE (Bridge Designer)**
- **Josh Porter, PE (Bridge Designer)**
- **Marc Hoffmann, PE (Bridge Designer)**
- **Ben Goodner, PE (Bridge Design Checker)**
- **Patrick Duffy, PE (Bridge Design Checker)**
- **Dylan Boudreaux (Bridge Detailer)**
- **Terrance Simon (Bridge Detailer)**
- **Nicholas Hart, PE (Bridge Detail Checker)**
- **Travis Honore, PE (Bridge Detail Checker)**
- **Dusty Bastion, PE (Bridge QA Review)**
- **Glenn Ledet, PE (Team Leader Bridge H&H and Scour Analysis)**
- **Mike Phillips, PE, CFM (Task Leader Bridge H&H Analysis and Design and Scour Analysis)**
- **Steve Hazen, PE (Bridge H&H Analysis and Design and Scour Analysis)**
- **Kyle Grantham, PE, CFM (Bridge H&H and Scour Analysis)**
- **Leah Selcer, PE (Bridge H&H and Scour Analysis)**
- **Dishili Young, PE (Team Leader Roadway Design)**
- **Mai Nguyen, PE (Roadway Design)**

- **Gary Leblanc, PE (Roadway Design)**
- **Steve Perault (Roadway Detailer)**
- **Randy Denmon, PE (Roadway Design QA)**
- **Ashley Beckendorf, PE (Roadway Design QA)**

2.2 File Management

CAD drawings will be created and modified on local servers and then uploaded to LADOTD ProjectWise folders with PDF copies of the plans for each submittal.

2.3 CAD

All drawings shall be performed in MicroStation CAD Conform. NEEL-SCHAFFER, INC. & HNTB CORP. will be responsible for assuring that these requirements are met by all Consultants for the bridge design.

2.4 Louisiana Department of Transportation and Development (LADOTD) Roles

- ✓ ***Quality control is the sole responsibility of the design team. NEEL-SCHAFFER & HNTB shall be responsible for completing quality control in accordance with this document prior to all submissions.***

The LADOTD role shall be limited to providing comments on the substance provided and not reviewing the plans for errors and omissions.

3. DESIGN CRITERIA AND SOFTWARE

The following sections discuss the Design Team's procedures for Design Criteria and Software determination.

3.1 Design Criteria

Once a notice to proceed has been issued, the design criteria will be created based on the current Bridge Design and Evaluation Manual, bridge design technical memorandums, and current design specifications. If applicable, the design criteria shall include but not be limited to:

- Governing Design and Construction Specifications and Other References
- Design Assumptions and Design Exceptions
- General Information
- Hydraulic Design Criteria
- Design Factors
- Design Loads
- Limit States
- Bridge Barrier
- Guardrail
- Approach Slab
- Deck and Deck Drainage
- Bearing
- Joint
- Superstructure
- Substructure
- Piles and Drilled Shafts
- Geotechnical Design
- Mechanical Design (if applicable)
- Electrical/ Lighting Design
- As-Designed Bridge Rating Criteria
- Railroad Design (if applicable)
- Software

The design criteria will be submitted to LADOTD for review and approval at the beginning of the project. The design criteria will be updated as necessary but resubmitted to LADOTD for review and approval upon commencement of final design.

Design memorandums will be issued to the team for all major decisions that affect the design.

3.2 Software

The design team shall adhere to LADOTD policies regarding software by using only design software which is pre-approved by the LADOTD. Design and drafting software to be used on the Project shall be listed in the design criteria. In the event software has not been pre-approved by the LADOTD, the team shall adhere to the following stipulations in order to seek LADOTD approval of the software to be used.

A synopsis of the software shall be submitted to the Bridge Design Engineer Administrator for approval prior to use. The synopsis shall include the name of the software and the developer, a general description

of the functions, a certification from the software developer stating that it is maintained in accordance with the latest AASHTO LRFD Bridge Design Specifications, and an account of the requester's experience and the experience of other organizations or agencies that use the software. Data/results from in-house software will not be accepted as part of the deliverable.

4. QUALITY MANAGEMENT PLAN

NEEL-SCHAFFER, INC. (NSI) & HNTB CORP. *will implement the following Quality Control Plan for all design activities in both design phase and construction support phase of the project. We fully understands the role in QC/QA for the project. We understand the concepts of QC/QA in bridge design. We have identified key personnel including Designer, Checker, Reviewer and Engineer of Record, and fully understands the responsibilities of each. NSI will utilize QC/QA tools such as Checklists, Standard Forms, Training Materials, etc. such that it complies with FHWA and AASHTO's "Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation" along with Part 1, Chapter 3, "Policy for Quality Control and Quality Assurance QC/QA)" of the LADOTD Bridge Design and Evaluation Manual.*

4.1 Quality Management Overview and Flowchart

A specific Quality Control/Quality Assurance process has been established for this project. This shall include design and detail reviews among the designated design team responsible for the design.

As discussed previously, the Bridge Design Team consists of NEEL-SCHAFFER, INC. (NSI) and FORTE & TABLADA, INC., TERRACON, INC., HNTB, CORP., JW PORTER AND ASSOCTIATES, LLC., DAVE RAMBARAN GEOSCIENCES, LLC., AND VOLKERT, INC. All firms will have a role in the design and detailing of the bridge plans.

- ✓ ***HNTB, CORP. shall provide QC/QA of the bridge plans and concepts.***

Detailed procedures for QC and QA are described in the following sections.

4.2 Quality Control Process (QC)

QC is defined as the basic checking procedures for ensuring accuracy and completeness. The following are the standard checking formats for hard copy documents (such as hand calculations, program input files and plans) and electronic documents (such as word documents) that should be implemented for the QC processes.

- ✓ ***For the QC process, we have identified the following staff members:***

Ben Goodner, PE (Bridge Design Checker) - *Ben is a civil engineer with 15 years of experience in roadway, drainage design, bridge design, bridge inspection, levee, floodwall, and levee inspection. Ben has 11 years of bridge design experience working on LADOTD projects. He has been tasked with managing task orders and leading a team of individuals in bridge design, analysis, and plan production.*

Patrick Duffy, PE (Bridge Design Checker) - *Patrick has experience working on a variety of bridges, including slab span, steel I-beam, steel plate girder swing span, steel truss, concrete precast slab units, and concrete pre-stressed girder bridges. Having worked on both simple and complex bridges throughout the state of Louisiana for the LADOTD, he is familiar with the proper requirements and standards that the LADOTD expects. He is proficient in essential programs such as AASHTOWare BrR, Bentley LEAP RCPier, MathCad, and MicroStation.*

Design Calculations and Details

Quality control starts with the Designer. The Designer is the engineer directly responsible for the development of design calculations, drawings, special provisions including Non-Standard items and the cost estimate. The design calculations, including details, shall be organized and maintained in a standard calculation book format. The Detailer is the individual directly responsible for the creation of CAD drawings. The Designer must communicate with the Detailer and supervise the detailing work to ensure that the drawings adequately and accurately present the design information. Both the Designer and the Detailer shall check their own work and minimize errors.

The Design Checker is the engineer directly responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items and the cost estimate. The Detailer Checker is the individual responsible for performing a full review of the CAD drawings. The Detail Checker can be a Designer or Detailer. The Design Checker and the Detail Checker shall not be the ones who perform the original design and detailing.

During the design check process, the Design Checker must verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items and the cost estimate. The Design Checker may perform a redline check of the designer's calculations or produce an independent set of calculations and compare the results. The calculations of the Design Checker should also become a part of the calculation of record when independent checking calculations are produced. For checking of design programs, a printout of the input and output should be provided to the Design Checker. The Design Checker is responsible for checking the input and reviewing the output to verify the input. The Design Checker should also ensure that the drawings adequately and accurately present the design information. The Design Checker / Detail Checker shall document their review.

- Items needing correction are highlighted or marked in red.
- Correct items are highlighted in yellow.
- Correct full paragraphs (or pages) marked with a yellow diagonal or check mark.
- For software calculations, the input 100% checked with the controlling values of output files verified with hand calculations.

When the Design Checker/Detail Checker is complete, all calculations and details should be highlighted and sent back to the Designer/Detailer. Any discrepancies are to be resolved prior to completion of the calculation package and noted.

Upon completion of the submittal by the Designer and Design Checker, the Reviewer shall review the calculation documents along with the details used to develop the calculations. The Reviewer is responsible for checking the plans for completeness and accuracy prior to a submittal. The Reviewer shall document their review.

- Agreement shown with a green check mark.
- Disagreement is discussed are shown in blue.
- The review is sent back to the Designer. Any disagreements are to be resolved prior to completion of the submittal.

All reviews and comments shall be recorded and documented by the EOR.

4.3 Quality Assurance Process (QA)

QA is defined as the procedures used to verify that the QC procedures are followed and used effectively to provide accurate and complete submittals. During the QC/QA process, the Reviewer is responsible for ensuring that the QC process is complete and that the design calculations, drawings, special revisions, and cost estimates are in accordance with LADOTD Bridge Design practices, policies and procedures.

The Reviewer shall verify the constructability of the plans and that areas of critical structural importance are accurate and designed properly. The Reviewer provides the designer with any concerns or deficiencies observed in the design and plans. These issues are resolved prior to submittals.

- ✓ ***For the QA process, NSI & HNTB has identified the following staff members:***

Dusty Bastion, PE (Bridge Design Review) - *Dusty has experience in project management, design, detailing, analysis, inspection, and load rating of bridge structures. His experience includes many types of superstructures and substructures in projects varying from multi-level interchanges to off-system bridge replacements. His responsibilities include structural design, plan development, specifications development, cost estimating, quality control review and project management ranging from standard bridge projects to non-typical accelerated time frame projects. He is proficient with AASHTO LRFD and the BDEM. He is a former LADOTD bridge design section engineer and he has unparalleled knowledge of LADOTD's plan development and contracting processes. Dusty is the project manager for two current bridge preservation IDIQ contracts held with the department.*

Upon completion of the QA process, the EOR verifies that the QC/QA certification is signed by all responsible parties. The EOR also assembles all calculations packages to send to the LADOTD and verifies that the responsible parties are shown accurately on the title block of each plan sheet. The EOR is responsible for sealing the pertinent calculation packages including the general notes sheets and construction plans prior to signature of the LADOTD Chief Engineer.

5. ESTIMATED DELIVERABLES AND CERTIFICATIONS

- ✓ ***NEEL-SCHAFFER, INC. & HNTB, CORP. shall be responsible for the Deliverables and certifications required for the Quality Management Plan.***

  This shall include making sure that the project certifications and forms are adhered to and signed, along with delivering the plans to the LADOTD at the required submittal milestones.

5.1 Certifications and Forms

NEEL-SCHAFFER, INC. & HNTB, CORP. shall create pertinent QC/QA forms for this project and shall require that the QC/QA process is followed, and the forms are signed by the responsible parties. We shall document and file these forms for each deliverable where required.

We will use the following tools during the design and QC/QA:

- Design Criteria Checklist
- Final Calculation Book Checklist
- QA Information Package Checklist
- QC/QA Certification
- Consultant Submittal QC/QA Certification
- Quality Audit Checklist
- Sample Check Print Stamps

5.2 Sealing of Plans

The EOR is a Louisiana-licensed professional engineer who is responsible for supervision and/or preparation of plans, sealing of calculations, plans and special provisions if required. The EOR can be the Designer, the Design Checker, the Reviewer or the Supervisor/Team Leader who is directly involved in the project design activities.

- ✓ ***NSI & HNTB has identified the following staff member as the Engineer of Record:***

John Bernard, PE (Bridge Designer) - *Mr. Bernard is experienced with bridge design, widening, repair, rating, inspection, construction support and plan preparation, as applicable for steel trusses, movable bridges, curved and straight plate girders, prestressed girders, slab span, and timber structures. He has experience designing with gravity concrete retaining walls with and without piles and with and without a roadway barrier.*

Josh Porter, PE (Bridge Designer) - *Josh has experience in bridge design, load rating, inspection, and detailing. His experience spans many structures, including trusses and gusset plates, PPC girders, and curved and straight steel girders, slab spans, and culverts. He has been tasked with developing load rating and design models, developing and overseeing the development of bridge plans, cost estimating and benefit analysis, project management, and leading and assisting in inspecting bridges. He understands the AASHTO LRFD Bridge Design Specifications and the AASHTO Manual for Bridge Evaluation. He has proficient experience with AASHTO Bridge Rating and Design, LEAP CONSPAN AND RC Pier, STAAD, and CSi Bridge.*

Marc Hoffmann, PE (Bridge Designer) - *Marc brings over seven years of experience in bridge design, inspection, evaluation, and rehabilitation. During his tenure, he has gained extensive knowledge of the AASHTO manuals for bridge design, evaluation, and element inspection.*

APPENDIX

The following items are included in the Appendix:

- Design Criteria Checklist
- Final Calculation Book Checklist
- QA Information Package Checklist
- QC/QA Certification
- Consultant Submittal QC/QA Certification
- Quality Audit Checklist
- Sample Check Print Stamps

Design Criteria Checklist

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

__ **Cover sheet**

The following information must be included on the cover sheet:

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

__ **Governing Design and Construction Specifications and Other References**

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

__ **Design Assumptions and Design Exceptions**

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

__ **General Information**

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

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

__ **Hydraulic Design Criteria**

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

__ **Design Factors**

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

__ **Design Loads**

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

__ **Limit States**

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

__ **Bridge Barrier Railing**

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

__ **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 railings shall be listed in this section. Standard Plans and special details 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.

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 including the following information:

_____ **A PDF File of the Calculation Book**

_____ **All Electronic Design Files**

_____ **A PDF File of the As-Designed Rating Report Only**

QA Information Package Checklist

Project No.: STATE PROJECT NO. H.003855.5
Project Description: ENTITY CONTRACT FOR CONG RELIEF WINFIELD ROAD
BRIDGE QUALITY MANAGEMENT PLAN
Bossier Parish

_____ Calculation Book

_____ Plans

_____ Special Provisions

_____ Cost Estimate

_____ Other Documents _____

QC/QA Certification

Project No.: STATE PROJECT NO. H.003855.5
Project Description: ENTITY CONTRACT FOR CONG RELIEF WINFIELD ROAD
BRIDGE QUALITY MANAGEMENT PLAN
Bossier Parish

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.: STATE PROJECT NO. H.003855.5
Project Description: ENTITY CONTRACT FOR CONG RELIEF WINFIELD ROAD
BRIDGE QUALITY MANAGEMENT PLAN
Bossier Parish

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

Quality Audit Checklist

AUDITED AREA:	DATE(S) OF AUDIT:
AUDITOR:	AUDIT:

AUDIT ITEM	REFERENCE	METHOD OF VERIFICATION	CONFORMS	
			YES	NO
1. Have computer programs utilized been validated?	QMP Group D	Review validation records.		
2. Are calculation check prints available?	QMP Group B	Review originals and check prints.		
3. Were calculations checked prior to drawing checking?	QA Folder, QMP Log	Review check prints.		
4. Are drawing check prints available?	QMP Group E	Review record set and check prints.		
5. Are check prints of specifications available?	QMP Group A	Review record set and check prints.		
6. Is checking of input to computer programs being accomplished?	QMP Group B	Review originals and check prints		
7. Are check prints of studies or report-type documents available?	QMP Group A	Review check prints.		
8. Are procedures for marking up check prints being followed? Checker - Yellow/Red Backchecker - Green Updater - Blue Verifier - Yellow	QA Folder	Review check prints.		
10. Are check prints properly signed and dated?	QA Folder	Review check prints.		
11. Are plan reviews completed?	QMP Log	Review package to verify that comment sheets are available.		
12. Are the review comments incorporated into the final documents or disposed of as otherwise noted?	QA Folder	Review for verification that Design Reviews comments have been incorporated. Review for verification that comments from prior Design Reviews have been incorporated.		
13. Are check prints of graphic elements available?	QMP Group C	Review check prints.		
14. Are all checklists validated?	QMP Group D	Review check prints.		

Sample Check Print Stamps

Stamp shown is for example purposes only and actual stamp used may vary.

CHECKING PRINT

Checked by_____ Date_____

Back Checked by_____ Date_____

Corrected by_____ Date_____

Tracing Signed by_____ 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 & Email Address	Phone Number
Terracon Consultants, Inc.	2822 O'Neal Lane, Building B Baton Rouge, LA 70816	Lynne Roussel McMillen, PE Lynne.Roussel@terracon.com	(225) 239-2632
HNTB Corporation	**450 Laurel St, Suite 1200** **Baton Rouge, LA 70801**	Dusty Bastion, PE Office Leader dbastion@hntb.co	(225) 368-2800
Forte and Tablada, Inc.	9107 Interline Ave. Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr., PE jcoco@forteandtablada.com	(225) 927-9321
Dave Rambaran Geosciences, LLC	9053 Mansfield Road Suite A Shreveport, LA 71118	Dave Rambaran, PE daverambaran@drgeosciences.com	(318) 780-8292
J. W. Porter & Associates, LLC	3109 Alexander Ave. P.O. Box 1714 Shreveport, LA 71104	Linda S. Porter lporter@jwporter.net	(318) 869-1882
Volkert, Inc.	9448 Brookline Ave, Baton Rouge, Louisiana 70809	Janet L. Evans, PE Jan.evans@volkert.com	(225) 218-9440

23. Location:

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