

**CONTRACT NO. 4400030639  
STATE PROJECT NO. H.015982.5**

**OFF-SYSTEM HIGHWAY BRIDGE PROGRAM  
EAST FLANACHER RD OVER DRAINAGE CANAL**

**FEBRUARY 11, 2025**



**SUBMITTED BY:  
HORIZON ENGINEERING, LLC**



**1013 N. CAUSEWAY BLVD., SUITE 201  
METAIRIE, LOUISIANA 70001**

**DOTD FORM: 24-102****PROPOSAL TO PROVIDE CONSULTANT SERVICES**

(Revised December 12, 2024)

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

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

1. Contract Name as shown in the advertisement	OFF-SYSTEM HIGHWAY BRIDGE PROGRAM EAST FLANCHER RD OVER DRAINAGE CANAL
2. Contract Number(s) as shown in the advertisement	4400030639
3. State Project Number(s), if shown in the advertisement	H.015982.5
4. Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; <u>include screenshot from SOS at the end of Section 20</u> )	Horizon Engineering, LLC
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0007715
6. Prime consultant mailing address	1013 N. Causeway Blvd., Suite 201 Metairie, LA 70001
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1013 N. Causeway Blvd., Suite 201 Metairie, LA 70001
8. Name, title, phone number, and email address of prime consultant's contract point of contact	John Karlin, SE, PE, Co-Founder and Principal (504) 270-1830 jkarlin@horizonengineeringllc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	John Karlin, SE, PE, Co-Founder and Principal (504) 270-1830 jkarlin@horizonengineeringllc.com

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

**HORIZON ENGINEERING, LLC**

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

**Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.**



Signature above shall be the same person listed in Section 9:

February 11, 2025

Date:

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




Firm(s):  
N/A

Firm(s)' %:  
N/A

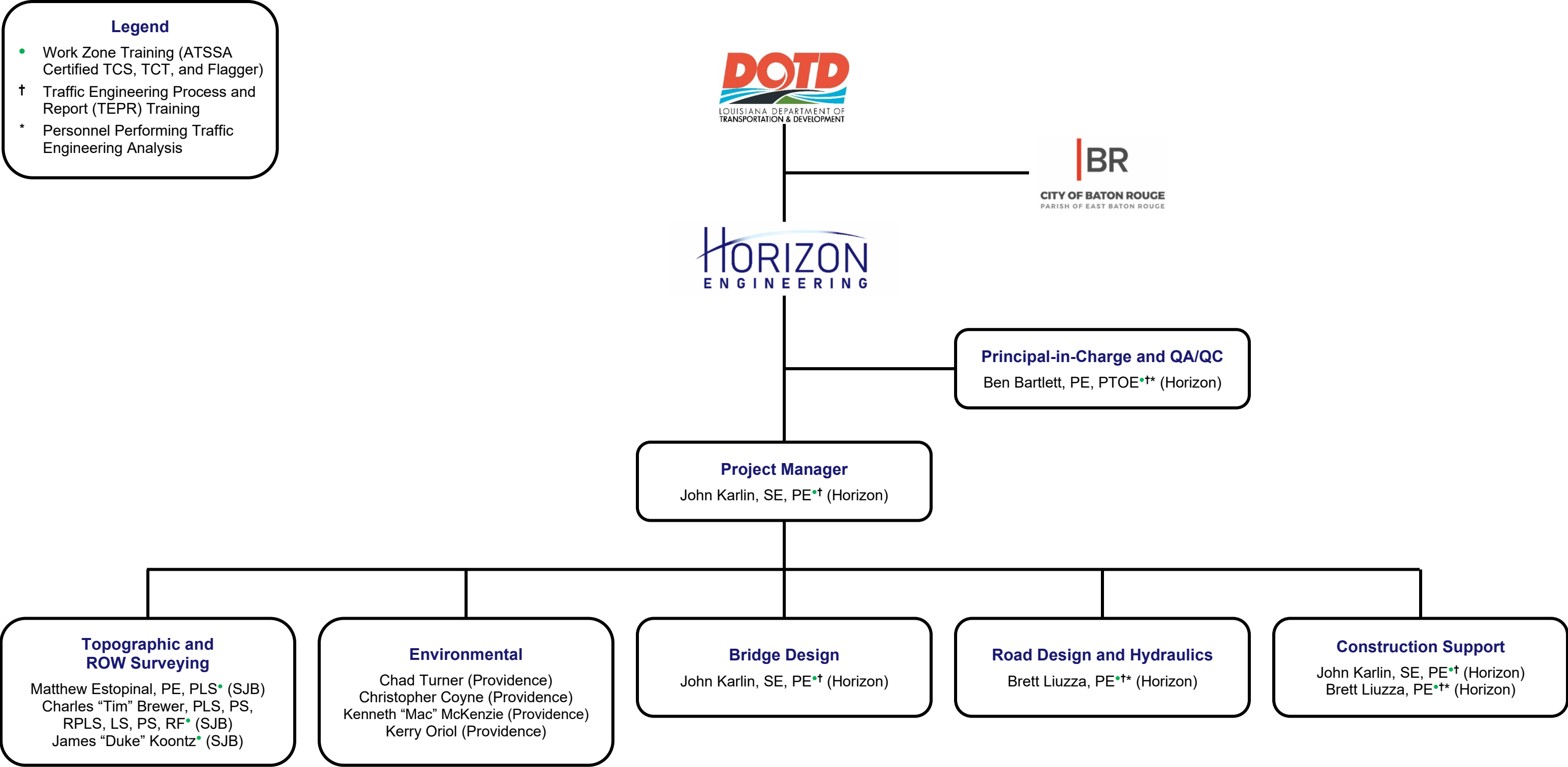
**12. Discipline Table:**

Discipline(s)	% of Overall Contract	Horizon Engineering, LLC (Prime)	SJB Group, L.L.C.	Providence Engineering and Environmental Group LLC	Each Discipline must total to 100%
Bridge	35%	100%	0%	0%	<b>100%</b>
Road	25%	100%	0%	0%	<b>100%</b>
Other (Hydraulics)	15%	100%	0%	0%	<b>100%</b>
Survey	15%	0%	100%	0%	<b>100%</b>
Right-of-Way	2%	0%	100%	0%	<b>100%</b>
Environmental	7%	0%	0%	100%	<b>100%</b>
Traffic	1%	100%	0%	0%	<b>100%</b>
Identify the percentage of work for the <b><u>overall contract</u></b> to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	<b>100%</b>	<b>76%</b>	<b>17%</b>	<b>7%</b>	<b>100%</b>

13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel <u>committed to this contract</u>	Total number of personnel available in this DOTD Job Classification (if needed)
 <b>Horizon Engineering, LLC</b>	Principal	1	3
	Supervisor - Eng	0	3
	Engineer	2	3
	CADD Technician	1	1
 <b>SJB Group, L.L.C.</b>	Principal	0	1
	Surveyor	2	4
	Party Chief	1	6
	Senior Technician	2	4
	CADD Technician	1	1
	CADD Operator	1	3
 <b>Providence Engineering and Environmental Group LLC</b>	Environmental Manager	2	2
	Biologist/Wetlands	2	4

14. Organizational Chart:



**15. Minimum Personnel Requirements:**

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Ben Bartlett, PE, PTOE	Horizon Engineering, LLC	PE #38980 – Civil PTOE #4020	LA USA	9/30/2026 3/29/2025
2	John Karlin, SE, PE	Horizon Engineering, LLC	PE #44795 – Civil and Structural SE #081-008511	LA IL	3/31/2025 11/30/2026
	Brett Liuzza, PE	Horizon Engineering, LLC	PE #37753 – Civil	LA	9/30/2025
3	John Karlin, SE, PE	Horizon Engineering, LLC	PE #44795 – Civil and Structural SE #081-008511	LA	3/31/2025
				IL	11/30/2026
4	Matthew Estopinal, PE, PLS	SJB Group, L.L.C.	PLS #4955	LA	3/31/2027
5	Chad Turner	Providence Engineering and Environmental Group LLC	N/A	N/A	N/A

**16. Staff Experience:**

Firm employed by <b>Horizon Engineering, LLC</b>			
Name	John Karlin, SE, PE		Years of relevant experience with this employer
Title	Co-Founder and Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Master of Science / 2017 / Civil (Structural) Engineering Bachelor of Science / 2016 / Civil Engineering	
Active registration number / state / expiration date		PE: 44795 / LA / 3/31/2025 SE: 081-008511 / IL / 11/30/2026	
Year registered	PE: 2020 SE: 2020	Discipline	Civil Engineer and Structural Engineer Structural Engineer
Contract role(s) / brief description of responsibilities		<b>Role:</b> Project Manager and Lead Structural Engineer ( <b>Satisfies MPRs 1, 2, and 3</b> ) <b>Responsibilities:</b> Project management, bridge/culvert design, construction support, and coordination with East Baton Rouge Parish and DOTD.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/17 – Present	<ul style="list-style-type: none"> <li>Over 7 years of structural engineering experience, including DOTD bridge and box culvert design.</li> <li>Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course.</li> <li>Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger.</li> </ul>		
07/21 – 12/22	<b>H.013897 – I-10 and I-12 College Flyover Ramp Design-Build</b> <b>Owner:</b> LaDOTD. <b>Scope:</b> Replacement of I-10 WB flyover ramp; widening and rehabilitation of I-10 WB bridge over Ward Creek; and rehabilitation of I-12 to I-10 EB ramp and Essen Lane bridge over I-12. <b>Cost:</b> ≈\$50,000,000. <b>Role:</b> Lead Structural Independent Technical Reviewer. Reviewed plans and specifications. Analyzed reinforced concrete deck and barriers, 360’ skewed continuous steel plate girders, steel cross frames, PPC girders, reinforced concrete diaphragms, rolled steel girders, steel diaphragms, reinforced concrete bents, drilled shafts, and PPC piles. Identified potential design and constructability issues.		
01/21 – 01/24	<b>Rehabilitation of Causeway Boulevard/Airline Drive Interchange</b> <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Structural inspection and rehabilitation of 1950s elevated interchange (8 ramps, traffic circle, and 4 lane overpass). <b>Cost:</b> ≈\$13,000,000 completed, ≈\$46,000,000 (est.) remaining. <b>Role:</b> Project Manager, Lead Structural Engineer, and Lead Construction Engineer. Analyzed existing bents and girders. Designed structure jacking plan, steel girder strengthening and repairs, bent cap strengthening, reinforced concrete risers, post-installed adhesive anchors and reinforcing bars, elastomeric bearing pads, and coating of steel components. Prepared plans, specifications, and opinions of probable construction cost (OPCC). Developed adjustments to post-installed adhesive anchor and reinforcing bar positions to avoid conflicts with existing reinforcement. Designed emergency deck repairs to replace failed expansion joint with only weekend road closures.		
01/23 – 01/24	<b>H.002956 – Earhart/Dakin Ramp</b> <b>Owner:</b> LaDOTD. <b>Scope:</b> Exit ramp from Earhart Expressway to Dakin Street. <b>Role:</b> Structural Engineer. Designed reinforced concrete deck and barriers; PPC girders; reinforced concrete diaphragms; elastomeric bearings; and reinforced concrete shear keys. Designed pile bent (reinforced concrete bent cap and PPC piles) adjacent to existing bent to accommodate steel girder span without applying any additional load to the existing bent. Prepared plans.		

## John Karlin, SE, PE (Continued)

10/23 – 01/24	<b>Relocation of East St. Bernard Highway and Associated Utilities (CMAR)</b> <b>Owner:</b> Port of New Orleans. <b>Scope:</b> Relocation of East St. Bernard Highway and associated utilities and construction of new bridge over railroad to facilitate construction of the ≈\$1.8B Louisiana International Terminal (1.05 miles of road, drainage, and utilities and 1,100-foot-long bridge). <b>Cost:</b> ≈\$50,000,000 (est.). <b>Role:</b> Lead Structural Engineer. Reviewed preliminary plans and other related information and prepared gap analysis identifying critical items to be addressed between preliminary and final design. Performed preliminary analysis and design of truss span (approximately 200 feet long) over railroad to reduce superstructure depth and bridge length. Prepared LaDOTD preliminary design report, including lane, shoulder, and median widths, superelevation, and other related design features, and value engineering proposals. Evaluated CMAR contractor value engineering proposals. Coordinated with LaDOTD, CMAR contractor, and other stakeholders.
10/23 – 01/24	<b>H.004791 – Belle Chasse Bridge and Tunnel Replacement (Public-Private Partnership Project)</b> <b>Owner:</b> LaDOTD/USACE. <b>Scope:</b> Replacement of 2-lane vertical lift Judge Perez Bridge and 2-lane Belle Chasse Tunnel with 4-lane fixed bridge over GIWW. <b>Cost:</b> ≈\$130,000,000. <b>Role:</b> Safety Assurance Review (SAR) Panel Lead Structural Reviewer. Led structural review in accordance with USACE SAR requirements. Visited site; reviewed plans, specifications, and structural analyses/calculations for vertical lift bridge demolition, tunnel decommissioning, and replacement of tunnel flood gates with permanent floodwalls considering the effect of construction on nearby existing levees and floodwalls; and identified potential public safety issues.
09/17 – 06/19	<b>Causeway Boulevard at 17<sup>th</sup> Street Southbound Roadway and Overpass Widening</b> <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Widening of Causeway Blvd. roadway and overpass of Veterans Blvd. <b>Role:</b> Structural Engineer. Designed reinforced concrete deck (including tie-in to existing bridge), PPC girders, reinforced concrete diaphragms, elastomeric bearing pads, reinforced concrete bent caps, reinforced concrete columns, reinforced concrete pile caps, and PPC piles. Prepared plans, specifications, and opinions of probable construction cost (OPCC).
09/22 – 01/24	<b>Florida Avenue Bridge Roadway, Settlement, and Paint Repairs</b> <b>Owner:</b> Port of New Orleans. <b>Scope:</b> Rehabilitation of Florida Avenue Bridge (vertical lift bridge over IHNC). <b>Role:</b> Structural Engineer. Inspected superstructure of approach spans and expansion joint damage at fixed/vertical lift interface. Assisted with preparation of structural repair details to approach spans and expansion joints.
09/17 – 05/22	<b>H.011731 – W. Esplanade Bridges @ Duncan Canal</b> <b>Owner:</b> LaDOTD. <b>Scope:</b> Replacement of bridges with reinforced concrete box culverts (two 38'x13' cells and two 14'x8' cells). <b>Cost:</b> ≈\$14,000,000. <b>Role:</b> Structural Engineer. Designed reinforced concrete base slab, walls, pipe penetrations, top slab, columns, girder, wingwalls, and apron slab considering LADV-11 and HL-93 vehicular live load.
01/20 – 07/20	<b>Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal)</b> <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Design of box culvert connecting Loumor Outfall Ditch and Woodvine Ditch to Hoey's Canal (12'x8' precast boxes and 3 cast-in-place concrete junction boxes). <b>Cost:</b> ≈\$13,000,000 (est.). <b>Role:</b> Project Manager and Lead Structural Engineer. Designed precast boxes, cast-in-place reinforced concrete junction box, and curved cast-in-place reinforced concrete transition section for HL-93 vehicular live load and other miscellaneous components. Prepared plans, specifications, and opinions of probable construction cost (OPCC).
09/17 – 10/18	<b>West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive)</b> <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Installation of ≈1,100 feet of 96-inch RCPA and a confluence box to transfer water from existing and future commercial developments and facilitate closing in of the West Esplanade Canal (Canal No. 2). <b>Cost:</b> ≈\$730,000. <b>Role:</b> Structural Engineer. Designed reinforced concrete headwalls, wingwalls, and apron slabs.

**16. Staff Experience:**

Firm employed by <b>Horizon Engineering, LLC</b>			
Name	Brett Liuzza, PE		Years of relevant experience with this employer
Title	Co-Founder and Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization	Bachelor of Science / 2008 / Civil Engineering		
Active registration number / state / expiration date	37753 / LA / 9/30/2025		
Year registered	2013	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	<b>Role:</b> Lead Civil Engineer ( <b>Satisfies MPRs 1 and 2</b> ) <b>Responsibilities:</b> Road design, hydrologic and hydraulic analysis and design, temporary traffic control design, and construction support		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/08 – Present	<ul style="list-style-type: none"> <li>Over 16 years of civil engineering experience, including DOTD road and hydraulic design and construction oversight.</li> <li>Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course.</li> <li>Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger.</li> <li>Completed Louisiana State Civil Service CPTP SCS Cybersecurity WBT.</li> </ul>		
03/14 – 01/15	<b>Replacement of the Flanacher Road (A) and Flanacher Road (B) Bridges</b> <b>Owner:</b> East Baton Rouge Parish (LaDOTD Off-System Highway Bridge Program). <b>Scope:</b> Replacement of two deficient off-system bridges. <b>Role:</b> Civil Engineer. Performed hydrologic and hydraulic analysis and design, including calculation of peak discharges, maximum water surface elevations, and pile scour. Developed design drainage maps and prepared hydraulics report in accordance with DOTD Hydraulics Manual. Designed base course, asphalt road, pavement markings, subsurface drainage (CMP and CMPA), embankment widening, erosion control items, incidental concrete pavement, guardrails, riprap, temporary traffic control, and other miscellaneous items. Prepared plans, specifications, and opinions of probable construction cost.		
07/12 – 10/16	<b>H.002550.6-R1 (Phase 1A) and H.009933.6 (Phase 1B) – MacArthur Interchange Completion</b> <b>Owner:</b> LaDOTD. <b>Scope:</b> Construction of entrance/exit ramps for Westbank Expressway and relocation of frontage road and associated utilities. <b>Cost:</b> ≈\$42,000,000. <b>Role:</b> Civil Engineer. Designed roadway geometric layout, 15” to 48” RCP, 15” to 72” equivalent RCPA, 10” sewer force main relocation horizontally drilled underneath 4-lane roadway, and 8” water line relocation. Prepared plans, specifications, and opinion of probable construction cost.		
01/23 – 11/23	<b>H.002956 – Earhart/Dakin Ramp</b> <b>Owner:</b> LaDOTD. <b>Scope:</b> Construction of exit ramp connecting Earhart Expy. overpass and Dakin Street near the Jefferson Parish/Orleans Parish line. <b>Role:</b> Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed asphalt pavement, drainage system, and pavement markings. Prepared plans, specifications, and opinions of probable construction cost.		
05/08 – 08/10	<b>S.P. No. 414-01-0039 Nicholson Drive (LA 30) Segment 1 (Brightside/W. Lee to Gourrier/Burbank)</b> <b>Owner:</b> City of Baton Rouge. <b>Scope:</b> Widening of existing 2-lane asphalt road to 4 lanes (1.08 miles of road, drainage, and utilities). <b>Role:</b> Civil Engineer. Performed hydrologic and hydraulic analysis. Designed signalized intersection improvements to accommodate widened road, drainage system, utility relocations, grading, and pavement markings in accordance with LaDOTD requirements. Prepared preliminary plans, specifications, and opinions of probable construction cost.		

## Brett Liuzza, PE (Continued)

10/18 – 10/23	<p><b>H.007271.6 Canal Blvd (R.E. Lee – Amethyst)</b>  <b>Owner:</b> City of New Orleans (LaDOTD LPA project). <b>Scope:</b> Replacement of asphalt roadway (including curbs, driveways, sidewalks, and curb ramps) and drainage, sewer, and water lines. <b>Cost:</b> ≈\$4,500,000. <b>Role:</b> Project Manager and Lead Construction Engineer. Managed 2 inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Developed adjustments to drop inlets, manholes, and other drainage structures in the roadway. Performed SiteManager duties. Coordinated construction materials testing. Prepared change orders and project closeout documentation.</p>
07/21 – 01/24	<p><b>H.007273.6 Magazine St (Leake Ave to East Drive)</b>  <b>Owner:</b> City of New Orleans (LaDOTD LPA project). <b>Scope:</b> Replacement of asphalt road with PCC pavement road (including curb, driveways, sidewalks, and curb ramps) and drainage, sewer, and water improvements. <b>Cost:</b> ≈\$4,500,000. <b>Role:</b> Project Manager and Lead Construction Engineer. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Developed adjustments to utilities and drop inlets, manholes, and other drainage structures in the road. Performed Site Manager duties. Coordinated construction materials testing. Prepared change orders and project closeout documentation.</p>
07/13 – 05/22	<p><b>Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B)</b>  <b>Owner:</b> SLFPA-E. <b>Scope:</b> Fortification of the Lake Pontchartrain seawall and road, pedestrian, drainage, and lighting improvements (5.2 miles long). <b>Cost:</b> ≈\$50,000,000. <b>Role:</b> Project Manager and Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed erosion control pavement geometric layout, tree preservation wall geometry, site grading, drainage pipes, drainage structures, drainage outfalls, and miscellaneous features. Prepared plans, specifications, opinions of probable construction cost. Coordinated with USACE and CPRA and prepared permit drawings for SLFPA-E, CPRA, and USACE. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.</p>
05/21 – 12/22	<p><b>RR122 and RR123 Marlyville-Fontainebleau Groups G and H (FRC)</b>  <b>Owner:</b> City of New Orleans. <b>Scope:</b> Road reconstruction, including drainage, sewer lines, water lines, curbs, driveways, sidewalks, and curb ramps. <b>Cost:</b> ≈\$23,000,000 (est.). <b>Role:</b> Project Manager and Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed road, driveway, and sidewalk geometric layouts, asphalt pavement, concrete curb and gutter, 15” to 30” RCP, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.</p>
09/20 – 07/22	<p><b>Milneburg Group B (FRC) Streets</b>  <b>Owner:</b> City of New Orleans. <b>Scope:</b> Road reconstruction, including drainage, sewer lines, water lines, curbs, driveways, sidewalks, and curb ramps. <b>Cost:</b> ≈\$7,400,000. <b>Role:</b> Project Manager and Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed road, driveway, and sidewalk geometric layouts, asphalt pavement, concrete curb and gutter, 15” to 30” RCP, 18x11 to 51x31 RCPA, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.</p>
05/20 – 01/24	<p><b>Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)</b>  <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Widening of existing 4-lane road and area-wide drainage improvements (1.0 miles of road and drainage). <b>Cost:</b> ≈\$19,000,000 (est.). <b>Role:</b> Civil Engineer. Reviewed design of 15” to 72” RCP drainage system and tie-ins to surrounding drainage system. Designed asphalt pavement, concrete curb and gutter, pavement markings, sequence of construction, and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.</p>

**16. Staff Experience:**

Firm employed by <b>Horizon Engineering, LLC</b>			
Name	Ben Bartlett, PE, PTOE		Years of relevant experience with this employer
Title	Co-Founder and Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Master of Civil Engineering / 2010 / Civil Engineering Bachelor of Science / 2008 / Civil/Environmental Engineering	
Active registration number / state / expiration date		PE: 38980 / LA / 9/30/2026 PTOE: 4020 / USA / 3/29/2025	
Year registered	PE: 2014 PTOE: 2016	Discipline	Civil Engineer Professional Traffic Operations Engineer
Contract role(s) / brief description of responsibilities		<b>Role:</b> Principal-in-Charge and QA/QC ( <b>Satisfies MPRs 1 and 2</b> ) <b>Responsibilities:</b> Contract administration; quality assurance/quality control of bridge/culvert design, road design, hydrologic and hydraulic analysis and design, and temporary traffic control design; and coordination with East Baton Rouge Parish and DOTD	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
06/10 – Present	<ul style="list-style-type: none"> <li>Over 15 years of civil engineering experience, including DOTD road and hydraulic design and construction oversight.</li> <li>Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course.</li> <li>Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger.</li> <li>Completed Louisiana State Civil Service CPTP SCS Cybersecurity WBT.</li> </ul>		
10/14 – 11/14	<b>Replacement of the Flanacher Road (A) and Flanacher Road (B) Bridges</b> <b>Owner:</b> East Baton Rouge Parish (LaDOTD Off-System Highway Bridge Program). <b>Scope:</b> Replacement of two deficient off-system bridges. <b>Role:</b> Quality Control/Quality Assurance Reviewer. Reviewed hydrologic and hydraulic analysis and associated hydraulics report. Reviewed design of base course, asphalt road, pavement markings, subsurface drainage (CMP and CMPA), embankment widening, erosion control items, incidental concrete pavement, guardrails, riprap, temporary traffic control, and other miscellaneous items. Reviewed plans, specifications, and opinions of probable construction cost.		
04/14 – 06/23	<b>Rehabilitation of Causeway Boulevard/Airline Drive Interchange</b> <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Structural inspection and rehabilitation of 1950s elevated interchange (8 ramps, traffic circle, and 4 lane overpass). <b>Cost:</b> ≈\$13,000,000 completed, ≈\$46,000,000 (est.) remaining. <b>Role:</b> Lead Civil Engineer and Construction Engineer. Performed hydrologic and hydraulic analysis. Designed modifications to bridge drainage system, temporary traffic control plans, pavement markings, and other related features. Prepared plans, specifications, and opinions of probable construction cost (OPCC). Managed 4 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; coordinated construction materials testing; assisted with development of adjustments to post-installed adhesive anchor and reinforcing bar positions to avoid conflicts with existing reinforcement; assisted with development of field adjustments for emergency deck repairs to replace failed expansion joint with only weekend road closures; prepared change orders; and prepared project closeout documentation.		

## Ben Bartlett, PE, PTOE (Continued)

05/20 – 01/24	<p><b>Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)</b>  <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Widening of existing 4-lane roadway and area-wide drainage improvements (1.0 miles of road and drainage). <b>Cost:</b> ≈\$19,000,000 (est.). <b>Role:</b> Project Manager and Lead Civil Engineer. Led road design, hydrologic and hydraulic design, traffic signal design, and preparation of plans, specifications, and opinions of probable construction cost. Designed 15-inch to 72-inch RCP drainage system, tie-ins to surrounding drainage system, asphalt pavement, concrete curb and gutter, pavement markings, sequence of construction, and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.</p>
10/23 – 01/24	<p><b>Relocation of East St. Bernard Highway and Associated Utilities (CMAR)</b>  <b>Owner:</b> Port of New Orleans. <b>Scope:</b> Relocation of East St. Bernard Highway and associated utilities and construction of new bridge over railroad to facilitate construction of the ≈\$1.8B Louisiana International Terminal (1.05 miles of roadway, drainage, and utilities and 1,100-foot-long bridge). <b>Cost:</b> ≈\$50,000,000 (est.). <b>Role:</b> Project Manager and Lead Civil Engineer. Reviewed preliminary plans, drainage studies, traffic studies, and other related information and prepared gap analysis identifying critical items to be addressed between preliminary and final design. Performed preliminary design of horizontal and vertical road geometry. Prepared LaDOTD preliminary design report, including lane, shoulder, and median widths, superelevation, and other related design features; prepared value engineering proposals; evaluated CMAR contractor value engineering proposals; and coordinated with LaDOTD, CMAR contractor, and other stakeholders.</p>
03/19 – 09/21	<p><b>Lake Pontchartrain Causeway Southbound Bridge Rail Improvements</b>  <b>Owner:</b> GNOEC. <b>Scope:</b> Installation of enhanced steel bridge rails and other miscellaneous repairs (48 miles of steel rail) while maintaining ADT of over 20,000. <b>Cost:</b> ≈\$40,000,000. <b>Role:</b> Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Inspected temporary lane closures of over 10 miles long and provided suggested modifications to improve motorist safety. Managed 10 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; managed inventory for approximately \$19,000,000 of stockpiled raw materials; inspected fabricated steel posts and rails prior to installation; coordinated construction materials testing; prepared change orders; and prepared project closeout documentation.</p>
12/14 – 05/22	<p><b>H.011731 – W. Esplanade Bridges @ Duncan Canal</b>  <b>Owner:</b> LaDOTD. <b>Scope:</b> Replacement of bridges with reinforced concrete box culverts (two 38'x13' cells and two 14'x8' cells). <b>Cost:</b> ≈\$14,000,000. <b>Role:</b> Lead Civil Engineer. Performed hydrologic and hydraulic analysis (updated Jefferson Parish's East Bank drainage model). Designed geometry of junction between Duncan Canal and Canal No. 2 to minimize turbulence and obtain a "No Rise" certificate; designed apron slab and wingwall geometry and drainage pipe connections; and prepared opinions of probable construction cost.</p>
01/20 – 07/20	<p><b>Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal)</b>  <b>Owner:</b> Jefferson Parish. <b>Scope:</b> Design of box culvert connecting Loumor Outfall Ditch and Woodvine Ditch to Hoey's Canal (12'x8' precast concrete boxes and 3 cast-in-place concrete junction boxes). <b>Cost:</b> ≈\$13,000,000 (est.). <b>Role:</b> Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Reviewed Parish-wide drainage master plan and models to determine applicable drainage basin and affected drainage systems; designed geometry of junction box at Hoey's Canal to minimize turbulence; designed drainage pipes, drainage structures, and miscellaneous site features; and prepared opinions of probable construction cost.</p>
06/10 – 09/14	<p><b>St. Charles Parish Road Maintenance Program (2010 – 2014)</b>  <b>Owner:</b> St. Charles Parish. <b>Scope:</b> Annual inspection of all St. Charles Parish-owned roads and repair/replacement of deficient roads. <b>Cost:</b> ≈\$1,500,000 annually. <b>Role:</b> Program Manager and Lead Civil Engineer. Led road inspections. Developed road repair/replacement priority lists for the verifiable expenditure of state/federal funds. Designed asphalt pavement milling/overlay and patching, PCC pavement panel replacement, sidewalk modifications, ADA compliant curb ramps, and utility adjustments. Prepared plans, specifications, and opinions of probable construction cost.</p>

**16. Staff Experience:**

Firm employed by: <b>SJB Group, L.L.C.</b>			
Name	<b>Matthew Estopinal, PE, PLS</b>	Years of relevant experience with this employer	<b>3</b>
Title	<b>Principal / CEO</b>	Years of relevant experience with other employer(s)	<b>15</b>
Degree(s) / Years / Specialization	B.S. in Civil Engineering   2009   LSU B.S. in Microbiology   1996   LSU		
Active registration number / state / expiration date	PE #0039151   Louisiana   3/31/2025   Year Registered: 2014   Professional Engineer PLS #0004955   Louisiana   3/31/2025   Year Registered: 2006   Professional Land Surveyor PE #122184   Tennessee   1/31/2025   Year Registered: 2019   Professional Engineer PE #32982   Mississippi   12/31/2024   Year Registered: 2022   Professional Engineer		
Contract role(s) / brief description of responsibilities	<b>Project Manager / QA/QC   (Meets MPR #4)</b> Mr. Estopinal has 17 years of experience as a PLS in Louisiana managing transportation and community development related projects for private clients, MoveBR, and LA DOTD. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/21 –10/23	<b>LA DOTD Project No. H.004100.5 – I-10: LA 415 to Essen on I-10 and I-12</b> <i>QA/QC.</i> SJB Group provided a Property Survey and extensive Right-of-Way Mapping for approximately 4 miles of I-10 as well as multiple intersecting streets, for which a property map was created that encompassed the parcels affected by acquisition and accessibility. The project also included the creation of Base Right-of-Way Maps; Final Right-of-Way Map set of original matte films; drawing files; along with a pdf copy of the Full Title Research Reports with affected parcel number and an ASCII parcel input file descriptions for approximately 125 parcels.		
08/20– 04/24	<b>LA DOTD 44-17597 - Rural Bridge Replacement Initiative, Districts 03, 07, 61, 62</b> <i>QA/QC.</i> SJB Group performed topographic surveying, property surveying, right-of-way mapping, and roadway design of 33 bridge replacements in Districts 03, 07, 61, and 62 as a sub-consultant to Burk-Kleinpeter within their contract with the LA Department of Transportation. The Surveys were provided in accordance with the current Locations and Survey Manual and Addendum A.		
04/23 – 09/23	<b>LA DOTD Project No. H.017322.5 – Morgan City Sidewalks &amp; Shared Use Path, St. Mary Parish</b> <i>QA/QC.</i> Sub to Digital Engineering. This project included Right-of-Way Mapping, Topographic Surveying, and Subsurface Utility Engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other related work in Morgan City. All surveying was performed to LADOTD Location & Survey Section requirements and delivered in Autodesk format.		

03/22 – 08/23	<p><b>LA DOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements</b></p> <p><i>QA/QC.</i> This project included a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 (Ryan Street) near the campus of McNeese State University. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location &amp; Survey Section requirements.</p>
07/21 - 02/22	<p><b>LA DOTD Project No. H.013715.5 – LA 77 Union Pacific Railroad Crossing (Iberville)</b></p> <p><i>QA/QC.</i> This project consisted of Property Surveying, Right-of-Way Mapping and Topographic Surveying for a project that included the depiction of a railroad right-of-way, state-maintained highway, and city streets. The deliverables included preparation of a Property Map, Base Right-of-Way Maps, Final Right-of-Way Maps and the creation of a parcel input file for acquisition descriptions of the subject area. All surveying was performed to LADOTD Location &amp; Survey Section Addendum A requirements.</p>
07/21 – 08/22	<p><b>LA DOTD Project No. H.002176.50 – LA 10 Bridges</b></p> <p><i>QA/QC.</i> The LA 10 Bridges project in St. Landry Parish included Property Surveying and Right-of-Way Mapping for three sites. The property survey depicted the affected properties, the existing Right-of-Way for LA Hwy 10, and multiple state-claimed water bodies. The Property Survey was utilized for creating Base Right-of-Way maps, Final Right-of-Way Maps and ASCII parcel input files for acquisition parcels. All surveying was performed to LADOTD Location &amp; Survey Section Addendum A requirements.</p>
07/21 – 10/21	<p><b>LA DOTD Project No. H.007963 – Blackwater Bayou Bridge</b></p> <p><i>Project Manager/QA/QC.</i> This project required replacement of the Bayou River Bridge and a diversion road during construction along LA Hwy 410 in East Baton Rouge Parish near the City/Town of Central. This project involved Property Surveys, Right-of-Way maps, and title take-offs. This project went through design changes which halted project progress temporarily and significantly changed the required right-of-way taking. All surveying was performed to LADOTD Location &amp; Survey Section Addendum A requirements.</p>

**16. Staff Experience:**

Firm employed by: <b>SJB Group, L.L.C.</b>			
Name	<b>Charles “Tim” Brewer, PLS, PS, RPLS, LS, PS, RF</b>	Years of relevant experience with this employer	3
Title	<b>Vice President of Surveying</b>	Years of relevant experience with other employer(s)	28
Degree(s) / Years / Specialization	Bachelor of Science in Forestry Management / 1988 / Mississippi State University		
Active registration number / state / expiration date	PLS.0005009   Louisiana   9/30/2025   Registered 2009   Professional Land Surveyor PLS.35341-S   Alabama   12/31/2025   Registered 2015   Professional Land Surveyor RPLS.6142   Texas   12/31/2025   Registered 2010   Reg. Professional Land Surveyor PS.1683   Arkansas   6/30/2025   Registered 2009   Professional Surveyor LS.2726   Tennessee   12/31/2025   Registered 2008   Land Surveyor 80756RPP   Oregon   12/31/2025   Registered 2008   Reg. Professional Photogrammetrist PS.2766   Mississippi   12/31/2025   Registered 1999   Professional Land Surveyor RF.1286   Mississippi   12/31/2025   Registered 1988   Registered Forrester		
Contract role(s) / brief description of responsibilities	<b>Asst. Project Manager   (Meets MPR#4)</b> Mr. Brewer, has over 30 years of survey experience and over 15 years of experience managing a wide variety of surveying projects for USACE, MDOT, LADOTD, MovEBR, MoveAscension, and private clients. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/23 – 12/24	<b>LA DOTD Project No. H005121.5 LA 1 – LA 415 Connector</b> <i>Project Manager.</i> The project provides field data for the design of a roadway to connect LA 415 to LA 1. The project is a supplement to previously performed surveying for the realignment of the due to recent development and construction. The project limits include a 2.9-mile corridor beginning approximately 0.2 miles north of the intersection of I-10 and LA 415 and continuing in a southeasterly direction along the extension of LA 415 across the intercoastal canal, industrial areas, and agriculture field to the intersection of LA 1. The project limits also include an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas. The project includes the collection of current conditions of the areas included in the project limits and merging the current data with the previous survey and updating any observed condition changes. The project includes the recovery and supplement of the existing control network. The collection of field data is completed through the utilization of conventional survey methods with survey total stations and global positioning systems (GPS). Mobile LiDaR methods are utilized for the collection of data along the high traffic segments of LA 1 and processed through Trimble Business Center, with data extraction performed through TopoDot. The survey is being conducted according to the Louisiana Department of Transportation and Development Location and Survey Manual. The deliverables will be provided in accordance with the LADOTD guidelines for electronic deliverables.		

04/23 – 09/23	<p><b>LA DOTD Project No. H.017322.5 – Morgan City Sidewalks &amp; Shared Use Path, St. Mary Parish</b>  <i>Surveyor of Record/Project Manager.</i> Sub to Digital Engineering. This project included Right-of-Way Mapping, Topographic Survey, and Subsurface Utility Engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other related work in Morgan City. The project limits included Everett Street from Front Street to 4th Street, 4th Street from Everett Street to Barrow Street, and Myrtle Street from Youngs Road to Auditorium Drive. In the performance of this contract the existing right-of-way of twenty streets, one state highway right-of-way, and an irregular railroad right-of-way was determined at two crossing locations. All surveying was performed to LADOTD Location &amp; Survey Section requirements. The deliverables were provided in Autodesk format.</p>
08/20 – 09/23	<p><b>LA DOTD 44-17597 - Rural Bridge Replacement Initiative, Districts 03, 07, 61, 62</b>  <i>Project Manager.</i> Sub to Burk-Kleinpeter. This project included a Topographic Survey, Right-of-Way Mapping, and roadway design performed for the proposed bridge replacements for LA DOTD Districts 03, 07, 61, and 62. Each site required a complete property map and the preparation of Right-of-Way Maps with supporting data for right-of-way acquisition. The Topographic Survey of the project limits of each bridge included a complete inventory for each drainage structure (type, size, length, and invert) and cross sections of all drainage ways. A Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover were used. All surveying was performed to LADOTD Location &amp; Survey Section requirements.</p>
03/22 – 8/22	<p><b>LA DOTD Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements</b>  <i>Project Manager.</i> This project included a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 (Ryan Street) near the campus of McNeese State University. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation. All surveying was performed to LADOTD Location &amp; Survey Section requirements.</p>
6/21 - Ongoing	<p><b>LA DOTD Project No. H.004100.5 – I-10: LA 415 to Essen on I-10 and I-12</b>  <i>Project Manager.</i> SJB Group performed the property surveying along a 4.4-mile stretch of Interstate 10 from St. Joseph St. to College Dr. in East Baton Rouge Parish, Louisiana for the Louisiana Department of Transportation and Development's widening project. This project required extensive title research to acquire the necessary existing surveys and deeds. It also required field surveying and mapping of more than one hundred twenty-five parcels along the project corridor, which range in size from small urban residential lots to large commercial tracts. This project corridor also encompasses existing drainage servitudes, a railroad right-of-way, and numerous side streets in the heart of Baton Rouge.</p>

**16. Staff Experience:**

Firm employed by: <b>SJB Group, L.L.C.</b>			
Name	<b>James “Duke” Koontz</b>		Years of relevant experience with this employer
Title	<b>Party Chief</b>		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization			
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities		<b>Party Chief.</b> Mr. Koontz has over 35 years of experience as a Survey Party Chief. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping using both conventional and GPS instruments. He is knowledgeable with several Leica Geosystems such as the ScanStation C10 3D Laser Scanner, TS16 Robotic Total Station, GS18 GNSS RTK Rover, and the Viva GS16 GNSS rove	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/21 – Ongoing	<b>LA DOTD Project No. H.004100 - I-10: LA 415 to Essen, Baton Rouge, LA</b> Party chief for the project which included a property survey and extensive right-of-way mapping for approximately 4 miles of I-10 as well as multiple intersecting streets, for which a property map was created that encompassed the parcels affected by acquisition and accessibility.		
08/20 – 4/24	<b>LA DOTD 44-17597 - Rural Bridge Replacement Initiative, Districts 03,07, 61,62</b> Project manager for a topographic survey, property survey, right-of-way mapping, and roadway design for bridge replacements in Districts 03, 07, 61, and 62. The project deliverables included both electronic MicroStation files, along with matte prints.		
04/24 – 05/24	<b>LA DOTD Project No. H.012001 – LA 339 Canal and Creek Bridges</b> <i>Party Chief.</i> This project in Vermilion Parish included Property Surveying and Right-of-Way Mapping for 3 sites along LA 339. SJB Group determined the existing right-of-way for LA 339 and multiple intersecting roadways. This information as well as the proposed right-of-way were utilized to prepare Base Right-of-Way Maps. Final Right-of-Way Maps and parcel input file descriptions for acquisition parcels that included multiple diversions roadways. All surveying was performed to LADOTD Location & Survey Section requirements.		
07/22 – 02/22	<b>LA DOTD Project No. H.013715.5 – LA 77 Union Pacific Railroad Crossing (Iberville)</b> <i>Party Chief.</i> This project consisted of Property Surveying, Right-of-Way Mapping and Topographic Surveying for a project that included the depiction of a railroad right-of-way, state-maintained highway, and city streets. The deliverables included preparation of a Property Map, Base Right-of-Way Maps, Final Right-of-Way Maps and the creation of a parcel input file for acquisition descriptions of the subject area. All surveying was performed to LADOTD Location & Survey Section requirements.		

04/23 – 09/23	<p><b>LA DOTD Project No. H.017322.5 – Morgan City Sidewalks &amp; Shared Use Path, St. Mary Parish</b></p> <p><i>Party Chief.</i> Sub to Digital Engineering. This project included Right-of-Way Mapping, Topographic Survey, and Subsurface Utility Engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other related work in Morgan City. The project limits included Everett Street from Front Street to 4th Street, 4th Street from Everett Street to Barrow Street, and Myrtle Street from Youngs Road to Auditorium Drive. In the performance of this contract the existing right-of-way of twenty streets, one state highway right-of-way, and an irregular railroad right-of-way was determined at two crossing locations. All surveying was performed to LADOTD Location &amp; Survey Section requirements.</p>
04/23 – Ongoing	<p><b>City-Parish Project No. 21-DR-US-0038 – EBRP Flood Risk Reduction Project for Beaver and Blackwater Channel Improvements</b></p> <p><i>Party Chief.</i> This project included Boundary Surveying, Right-of-Way Mapping, Topographic Surveying, Title Review, and Subsurface Utility Engineering for approximately 25 miles of proposed channel improvements. The project is being performed according to the LADOTD Location and Survey Manual. Property surveys were performed for parcels along the corridor of each waterway for the creation of a property map with coordinates of all recovered monuments to be provided in ASCII format. Base Right-of-Way Maps, Final Right-of-Way Maps, along with a parcel input file for the creation of acquisition parcel descriptions. Additionally, detailed Topographic Surveys are performed at all bridge crossings along the channels, including existing utility locations.</p>

**16. Staff Experience:**

Firm employed by: PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC				
Name	CHAD TURNER		Years of relevant experience with this employer	3
Title	Deputy Director Natural Resource & Coastal Services		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization			BS/2008/Biological Sciences	
Active registration number / state / expiration date			Richard Chinn 38-Hour Wetland Delineation Training, N/A, #5680	
Year registered	2009	Discipline	Wetlands	
Contract role(s) / brief description of responsibilities			ENVIRONMENTAL MANAGER- WETLANDS/PERMITTING	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
(05/09-06/13)	<b>Environmental Impact Specialist:</b> <i>Louisiana Department of Transportation and Development, Environmental Section.</i> Mr. Turner was responsible for NEPA compliance for federal and state transportation projects. His duties included: wetland delineations and reporting; threatened and endangered species surveys and reporting; preparation of in-house Categorical Exclusions and Environmental Assessments; and oversight of third-party NEPA documents and other environmental studies. During his time, Mr. Turner conducted over 100 wetland delineations for a variety of transportation projects, including on- and off-system bridge replacements, road realignments and widenings, and new road construction.			
(01/14-09/14)	<b>Wetland Biologist:</b> <i>Huval &amp; Associates, Inc, East Baton Rouge Parish Multiple Bridge Replacements.</i> On behalf of the City of Baton Rouge/Parish of East Baton Rouge Department of Public Works, conducted wetland delineation and completed Wetland Findings Reports for the Morvant Road (1 and 2), Milldale Road, and Port Hudson Pride Road bridges in East Baton Rouge Parish. For each location, prepared and submitted a Pre-Construction Notification to the USACE, New Orleans District for authorization under Nationwide Permit 12.			
(06/15-09/15)	<b>Project Manager:</b> <i>City of Baton Rouge Parish of East Baton Rouge, Pecue Lane/I-10 Interchange SPN. H.004104</i> Provided wetland delineation and reporting for construction of an interchange at I-10 and Pecue Lane adding multiple through lanes on Pecue Lane, entrance/exit ramps on eastbound and westbound I-10. Replacement of two-lane Overpass Bridge and Pecue Lane / Wards Creek bridge, extension to Reiger Road with new intersection at Pecue Lane, and related work. Responsibilities included field investigations, preparation of environmental document, map creation in GIS, and GIS environmental impact analysis.			
(02/20-09/23)	<b>Project Manager:</b> <i>City of Baton Rouge Parish of East Baton Rouge, MoveBR Capacity Project.</i> Mr. Turner served as project manager for four MOVEBR transportation projects in East Baton Rouge Parish: Old Hammond Highway Segment 1, Phases A and B (City-Parish Project No. 19-CP-HC-0034); Bluebonnet Boulevard (Perkins Road to Picardy Boulevard) (City-Parish Project No. 19-CP-HC-0034); Highland Road at Siegen Lane Intersection (City-Parish Project No. 20-CP-HC-0004); Sherwood Forest Extension (Greenwell Springs Road to Joor Road) (City-Parish Project No. 20-CP-HC-0014). Service provided included wetland delineations, preparation of Wetland Data Reports/Requests for Jurisdictional Determination, and submittal of Pre-Construction Notifications to the USACE for authorization under Nationwide Permit 12.			

(04/24-10/24)	<b>Project Manager:</b> <i>Morgan Goudeau &amp; Associates, Inc., Eight Off-System Bridge Replacements across Six Projects (H.014986, H.015013, H.015014, H.015015, H.015016, H.015050).</i> Services provided included wetland delineations and Wetland Findings Reports.
(05/24-12/24)	<b>Wetland Project Manager:</b> <i>Atlas Technical Consultants LLC, MRB South GBR: LA 1 to LA 30 Connector SPN H.013284</i> Providence provided NEPA, wetlands, Phase I ESA, and public outreach compliance assistance for the proposed new bridge crossing of the Mississippi River in Iberville Parish, LA. Served as the Wetland Project Manager for the 1,716-acre delineation across 3 proposed alignments. Responsibilities included management of 5 teams of biologists, coordination with Atlas/DOTD for survey access/landowner permissions, primary Technical Review of Wetland Findings Report, and coordination of a site visit with members of Atlas, DOTD, and the USACE.
<b>CHAD TURNER</b> has over 14 of natural resource permitting and compliance experience for clients in industrial, commercial, residential, and public sectors. His areas of focus include wetland delineations, analysis, and reporting on 30,000+ acres; U.S. Army Corp of Engineers (USACE) Section 10/404 permitting and compliance assistance (Galveston, Mobile, New Orleans, and Vicksburg Districts); Louisiana Department of Energy and Natural Resources (LDENR), Office of Coastal Management Coastal Use Permitting; NEPA Compliance; Louisiana Department of Wildlife and Fisheries (LDWF) Scenic Rivers System Permitting and Oyster Resource Assessments; U.S. Fish and Wildlife Service (USFWS) Section 7 consultations, State Historic Preservation Office (SHPO) Section 106 consultations; threatened and endangered species surveys and reporting; and USACE wetland mitigation bank assessment, reporting, and monitoring. Mr. Turner also specializes in desktop mapping applications, specifically ArcGIS. His GIS experience includes: field data collection with GPS units using Trimble, SonarWiz, and ArcPad systems; data dictionary creation and implementation; field data post-processing and assimilation; basic desktop mapping; desktop analysis of available reference and field-collected data for various client-requested applications; figure creation for use in regulatory permit applications, public meetings and hearings, resource agency meetings, and site visits; and creation of ArcGIS Online web and mobile applications.	

**16. Staff Experience:**

Firm employed by: PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC				
Name	CHRISTOPHER COYNE		Years of relevant experience with this employer	4
Title	Biologist III		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			BS/2020/Natural Resource Ecology and Management	
Active registration number / state / expiration date			Richard Chinn 38-Hour Wetland Delineation Training, N/A, #8969	
Year registered	2021	Discipline	Wetlands	
Contract role(s) / brief description of responsibilities			BIOLOGIST/WETLANDS	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
(08/21-10/21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Crawford Road / Tiger Branch, SPN H.014229.5, Caddo Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Crawford Road Bridge over Tiger Branch in Caddo Parish.			
(08/21-9/21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Nation Road/ Coulee Duralde, SPN. H.014220.5, Acadia Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Nation Road Bridge over Coulee Duralde in Acadia Parish.			
(08/21-12-21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Ruffin Drive Over Drain to Youngs Bayou, SPN. H.014232.5, Ouachita Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Ruffin Drive Bridge over a drain to Youngs Bayou in Ouachita Parish.			
(08/21-12-21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Auguillard Road Over Coulee, SPN. H.014226.5, St. Martin Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the St. Martin Auguillard Road Bridge over an unnamed coulee in St. Martin Parish.			
(03/22-03/22)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Doshie Road Over Cherry Winche Creek Tributary, SPN. H.014263.5, Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the North Hoover Road Bridge over an unnamed creek in Tangipahoa Parish.			
(09/21-12/21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Randall Road Over Yellow Water River SPN. H.014262.5, Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Randall Road Bridge over Yellow Water River in Tangipahoa Parish.			
(02/24-05/24)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Hales Road Bridges SPN. H.014986.5, Richland Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Hales Road Bridges over Hurricane Creek and an unnamed creek in Richland Parish.			
(04/24-05/24)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program North Joseph St Over Creek SPN. H.015016.5 Jefferson Davis Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the North Joseph Street Bridge an unnamed creek in Jefferson Davis Parish.			

(04/24-04/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Stateline Rd Over Creek SPN. H.015014.5 Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Tangipahoa Stateline Road Bridge an unnamed creek in Tangipahoa Parish.
(07/24-08/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Gravolet Road Over Drainage Canal SPN. H.015050.5, Plaquemines Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Gravolet Road Bridge over an unnamed drainage canal in Plaquemines Parish.
(07/24-08/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Sibley Rd and Chappepeela Rd Bridges SPN. H.015013.5 Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Sibley Road Bridge over Morgan Branch and the Chappepeela Road Bridge over Brushy Branch in Tangipahoa Parish.
(07/24-10/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Zeagler Cutoff Over Creek SPN H.015015.5 LaSalle Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Zeagler Cutoff Bridge over an unnamed creek in LaSalle Parish.
(08/24-present)	<b>Field Biologist:</b> <i>Aucoin &amp; Associates, Inc., Replacement Bridge LA 648: Drain Canal Bridge SPN. H.011963</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the LA 648 bridge over an unnamed drainage canal in Lafourche Parish. Additionally, prepared and submitted a Joint Permit Application to the Louisiana Department of Energy and Natural Resources and the U.S. Army Corps of Engineers.
(05/24-12/24)	<b>Field Biologist:</b> <i>Atlas Technical Consultants LLC, MRB South GBR: LA 1 to LA 30 Connector SPN H.013284</i> Providence provided NEPA, wetlands, Phase I ESA, and public outreach compliance assistance for the proposed new bridge crossing of the Mississippi River in Iberville Parish, LA. Role in the project included conducting wetland delineations on 3 alignment alternatives covering approximately 1,716 acres, subsequent wetland data reporting, and assisting with Phase I Environmental Site Assessment field surveys.

**CHRIS COYNE** has worked as a Biologist with Providence since May 2021. Prior to joining Providence, Mr. Coyne worked as a Biotechnician for the USFWS where he was responsible for Red-cockaded Woodpecker banding/monitoring, rocket-netting and banding of Wood Ducks, mobile acoustical bat monitoring, Gulf Sturgeon sampling, Dusky Gopher Frog monitoring, feral swine control, and wetlands restoration. Mr. Coyne earned a bachelor's degree in Natural Resource Ecology and Management with concentrations in Wildlife Ecology and Management and Fisheries from the School of Renewable Natural Resources at Louisiana State University in May 2020. Mr. Coyne's education and professional experience have exposed him to wetland ecology and management, ecosystem restoration, coastal management and restoration, plant identification, invasive species control, and wildlife biology.

**16. Staff Experience:**

Firm employed by: PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC				
Name	KENNETH “MAC” MCKENZIE		Years of relevant experience with this employer	3
Title	Biologist I		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			BS/2019/ Coastal Environmental Science	
Active registration number / state / expiration date			Richard Chinn 38-Hour Wetland Delineation Training, N/A, #9185	
Year registered	2022	Discipline	Wetlands	
Contract role(s) / brief description of responsibilities			BIOLOGIST/WETLANDS	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience in the applicable MPR(s).			
(08/21-10/21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Crawford Road / Tiger Branch, SPN H.014229.5, Caddo Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Crawford Road Bridge over Tiger Branch in Caddo Parish.			
(08/21-9/21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Nation Road/ Coulee Duralde, SPN. H.014220.5, Acadia Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Nation Road Bridge over Coulee Duralde in Acadia Parish.			
(08/21-12-21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Ruffin Drive Over Drain to Youngs Bayou, SPN. H.014232.5, Ouachita Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Ruffin Drive Bridge over a drain to Youngs Bayou in Ouachita Parish.			
(08/21-12-21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Auguillard Road Over Coulee, SPN. H.014226.5, St. Martin Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the St. Martin Auguillard Road Bridge over an unnamed coulee in St. Martin Parish.			
(03/22-03/22)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Doshie Road Over Cherry Winche Creek Tributary, SPN. H.014263.5, Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the North Hoover Road Bridge over an unnamed creek in Tangipahoa Parish.			
(09/21-12/21)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Randall Road Over Yellow Water River SPN. H.014262.5, Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Randall Road Bridge over Yellow Water River in Tangipahoa Parish.			
(02/24-05/24)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Hales Road Bridges SPN. H.014986.5, Richland Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Hales Road Bridges over Hurricane Creek and an unnamed creek in Richland Parish.			
(04/24-05/24)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program North Joseph St Over Creek SPN. H.015016.5 Jefferson Davis Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the North Joseph Street Bridge an unnamed creek in Jefferson Davis Parish.			
(04/24-04/24)	Field Biologist: <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Stateline Rd Over Creek SPN. H.015014.5 Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Tangipahoa Stateline Road Bridge an unnamed creek in Tangipahoa Parish.			

(07/24-08/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Gravolet Road Over Drainage Canal SPN. H.015050.5, Plaquemines Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Gravolet Road Bridge over an unnamed drainage canal in Plaquemines Parish.
(07/24-08/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Sibley Rd and Chappepeela Rd Bridges SPN. H.015013.5 Tangipahoa Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Sibley Road Bridge over Morgan Branch and the Chappepeela Road Bridge over Brushy Branch in Tangipahoa Parish.
(07/24-10/24)	<b>Field Biologist:</b> <i>Morgan Goudeau &amp; Associates, Inc., Off-System Highway Bridge Program Zeagler Cutoff Over Creek SPN H.015015.5 LaSalle Parish, LA.</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the Zeagler Cutoff Bridge over an unnamed creek in LaSalle Parish.
(08/24-present)	<b>Field Biologist:</b> <i>Aucoin &amp; Associates, Inc., Replacement Bridge LA 648: Drain Canal Bridge SPN. H.011963</i> Conducted a wetland delineation and completed a Wetland Findings report for the replacement of the LA 648 bridge over an unnamed drainage canal in Lafourche Parish. Additionally, prepared and submitted a Joint Permit Application to the Louisiana Department of Energy and Natural Resources and the U.S. Army Corps of Engineers.
(05/24-12/24)	<b>Field Biologist:</b> <i>Atlas Technical Consultants LLC, MRB South GBR: LA 1 to LA 30 Connector SPN H.013284</i> Provided NEPA, wetlands, Phase I ESA, and public outreach compliance assistance for the proposed new bridge crossing of the Mississippi River in Iberville Parish, LA. Role in the project included conducting wetland delineations on 3 alignment alternatives covering approximately 1,716 acres, subsequent wetland data reporting, and assisting with Phase I Environmental Site Assessment field surveys.
<b>MAC MCKENZIE</b> has natural resource permitting and compliance experience for clients in industrial, commercial, residential, and public sectors. His areas of work include wetland delineation, analysis, and reporting; U.S. Army Corp of Engineers (USACE) Section 10/404 permitting and compliance assistance (Galveston, Fort Worth, Memphis, Mobile, New Orleans, and Vicksburg Districts); LDENR, Office of Coastal Management Coastal Use Permitting; Louisiana Department of Wildlife and Fisheries (LDWF) Scenic Rivers System Permitting; U.S. Fish and Wildlife Service (USFWS) consultation, State Historic Preservation Office (SHPO) consultation; mitigation bank consulting, and threatened/endangered species and vegetation surveys and reporting.	

**16. Staff Experience:**

Firm employed by: PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC				
Name	KERRY ORIO		Years of relevant experience with this employer	24
Title	NEPA Project Manager		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization			BS/1989/Fish & Wildlife Biology	
Active registration number / state / expiration date			NEPA and Transportation Decision Making	
Year registered	2002	Discipline	Environmental Clearance	
Contract role(s) / brief description of responsibilities			ENVIRONMENTAL MANAGER- ENVIRONMENTAL CLEARANCE	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience in the applicable MPR(s).			
(01/19-Ongoing)	<b>Environmental Project Manager:</b> <i>Atlas Technical Consultants, LLC, Mississippi River Bridge GBR: LA 1 to LA 30 Connector, EBR, WBR, Ascension, Iberville, LA.</i> This project includes an Enhanced Planning investigation with the ultimate objective to construct a new crossing of the Mississippi River. Providence, as a subconsultant to Atlas Technical Consultants, LLC, is providing environmental services that include identifying the preliminary purpose and need (P&N), revising, submitting and updating P&N; permitting agency coordination; reviewing of studies and plans for data gaps; GIS figures; identifying corridors that meet P&N; identifying alternative boundaries; developing/submitting Environmental Screening methodology; compiling environmental inventory for alternatives for use in narrowing alternatives; support outreach and engagement overview, providing appropriate input for the CARB-D website, developing a draft Final Report for Phase I, addresses comments from Phase I, preparing materials and attending agency brief meetings/focus group meetings, and public meetings. Responsibilities: Management of project schedule, NEPA process and NEPA document development, development of the purpose and need statement, environmental and alternatives analyses, environmental justice analysis, organization of agency meetings, public outreach/involvement meetings and materials, development of public information and agency involvement plans, and coordination of public events, development of relocation plan, preparation of decision documents.			
(01/19-03/22)	<b>Environmental Project Manager:</b> <i>LA DOTD, LA 1/LA 415 Connector Environmental Assessment Reevaluation, State Project No. H.005121, Federal Aid Project No. H005121 West Baton Rouge Parish, LA.</i> A reevaluation of an existing EA for a LA 1/LA 415 Connector involving a new bridge over the Gulf Intracoastal Waterway, necessary to consider a change in bridge height and possible relocation of approved right-of-way. Efforts include a vessel study and reevaluation of traffic data to assess design modifications and potential right-of-way modifications. <b>Responsibilities:</b> Management of project schedule, NEPA process and NEPA document revision, including revision of supporting technical studies, coordination with state agencies, environmental, analyses, organization of agency meetings, and development of public information and agency involvement plans.			
(01/17-02/21)	<b>Environmental Project Manager:</b> <i>LA DOTD, I-10 Corridor Study: LA 415 to Essen on I-10 and I-12, Stage 1 Environmental Assessment, State Project No. H.004100.2, Federal Aid Project No. H004100, East and West Baton Rouge Parishes, LA.</i> A study of Interstate 10 (I-10) through Baton Rouge to develop feasible improvements and to obtain an environmental decision to implement improvements to I-10 and I-12 from the LA 415 interchange to the I-10 and I-12 interchanges at Essen Lane. Efforts include the analysis of existing conditions along I-10 along with implementation of various concepts to recommend a preferred alternative. Various concepts include widening existing infrastructure and revising interchanges. Extensive public outreach			

	efforts are also included in this project to ensure public input is received throughout the process. <b>Responsibilities:</b> Management of project schedule, NEPA process and NEPA document development, coordination of all work with six sub-consultants, environmental and alternatives analyses, environmental justice analysis, organization of agency meetings, public outreach/involvement meetings and materials, development of public information and agency involvement plans, and coordination of public events, development of relocation plan, preparation of decision documents.
(09/11-Ongoing)	<b>Environmental Project Manager:</b> <i>Northwest Louisiana Council of Governments (NLCOG), I-49 Inner Connector Stage 1 Environmental Impact Statement / NEPA, State Project No. 700-09-0171 (H.003915), Shreveport, Caddo Parish, LA.</i> Environmental Impact Statement (EIS) and interchange reports for the proposed I-49 Inner City Connector. Project involves all necessary engineering and environmental investigations to obtain environmental clearance on construction of a connector linking the existing I-49 to future I-49 North around Shreveport. <b>Responsibilities:</b> Management of project schedule, NEPA process and NEPA document development, development of the purpose and need statement, environmental and alternatives analyses, environmental justice analysis, organization of agency meetings, public outreach/involvement meetings and materials, development of public information and agency involvement plans, and coordination of public events, development of relocation plan, preparation of decision documents.
(01/20-05/21)	<b>Environmental Project Manager:</b> <i>Traylor Brothers, Inc., Comprehensive Environmental Protection Plan for State Project Number H004791 Belle Chasse Bridge and Tunnel, Plaquemines Parish, LA.</i> The preparation of a Comprehensive Environmental Protection Plan (CEPP) for the implementation of a LA DOTD transportation project. This first in the state plan requested by the LA DOTD involved the preparation of a master document designed to ensure commitments made in project's Environmental Assessment and permits as well as other applicable environmental regulatory requirements would be met before, during, and immediately after project construction. Multiple individual plans and training modules were developed to be housed within the CEPP with the goal of having no violations of environmental permits, mitigation, commitments, or regulations. <b>Responsibilities:</b> Development of the plan format and content, preparation of multiple sections and training materials, consistency review, and quality review. The plan was completed and accepted by the client and LA DOTD in May 2021 with Providence team members providing construction oversight and inspection that will continue through completion of construction.
<b>KERRY ORIOL</b> has over 35 years of multidisciplinary experience in the environmental field. She maintains expertise in project management, NEPA documents and public outreach requirements, including Environmental Impact Statements (EIS), Environmental Assessments (EA), Environmental Assessment Statement (EAS), and Natural Resource Damage Assessments (NRDA), ecological studies and biological assessments, and mitigation planning and implementation for project specific impacts. Ms. Oriol's pre-consulting experience involved working within the former Water Pollution Control Division of the Louisiana Department of Environmental Quality's (LDEQ) Office of Water Resources and as a research associate with LSU.	

**17. Firm Experience:**

Firm name	Horizon Engineering, LLC		Discipline(s)*		Bridge	
Project name	Mound Rest Area Improvements			Firm responsibility (prime or sub?)		Sub
Project number	H.011446	Owner's name	LaDOTD through Delta Design Professionals LLC			
Project location	Mound, Louisiana			Owner's Project Manager		Ken Free
Owner's address, phone, email		4141 Hwy. 577, Winnsboro, LA 71295 / (318) 729-9035 / ken.free@deltadp.com				
Services commenced by this firm (mm/yy)		09/24	Total consultant contract cost (\$1,000's)			Unknown
Services completed by this firm (mm/yy)		10/24	Cost of consultant services provided by this firm (\$1,000's)			10

The Mound Rest Area Improvements (Route I-20 Westbound) project will construct numerous pavilions and covered walkways throughout the site. Horizon Engineering, LLC (Horizon) analyzed the proposed architectural design (roof sheathing, rafters, purlins, columns, base plate/anchors, and associated connections) of pavilions/covered walkways PV1, PV3, PV4, PV5, CW1, and CW2 for gravity, wind, and seismic loads. Horizon prepared structural calculations for submittal to DOTD and structural details describing the anchorage of the pavilions to the foundations.

**Firm Members Involved:** John Karlin

**17. Firm Experience:**

Firm name	<b>Horizon Engineering, LLC</b>		Discipline(s)*	Bridge	
Project name	Coating of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive			Firm responsibility (prime or sub?)	Sub
Project number	2017-012A-RBP	Owner's name	Jefferson Parish		
Project location	Metairie, Louisiana			Owner's Project Manager	Matthew Zeringue
Owner's address, phone, email	1221 Elmwood Park Blvd., Ste. 802, Jefferson, LA 70123 / (504) 736-6500 / matthew.zeringue@jeffparish.gov				
Services commenced by this firm (mm/yy)	11/24	Total consultant contract cost (\$1,000's)			15 (est.)
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)			14 (est.)

The Causeway Boulevard/Airline Drive Interchange was originally constructed in the 1950s and consists of 8 ramps, an elevated traffic circle, and a 4-lane overpass. This project is the second phase of rehabilitation of the interchange and involves coating Ramps 6 and 7 and the Overpass, including containment system and suspended work platform installation; solvent cleaning, waterjet cleaning, and abrasive blast cleaning to remove existing coatings containing lead and other hazardous materials and provide a surface profile; and application of a three coat system consisting of an organic zinc primer, epoxy intermediate coat, and polyurethane top coat.

Horizon is currently providing coating quality assurance services for Jefferson Parish, including review of the Contractor's quality control plan, surface preparation and coating application plans, and quality control documentation; visual inspections; and environmental conditions, soluble salts, surface profile, and dry film thickness testing. Horizon's personnel led the overall interchange rehabilitation project while at their previous firm, including the design of this project, design of the first phase and future phases, and CE&I of the first phase completed in 2023 (Rehabilitation of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive; ≈\$13,000,000 construction cost).

**Firm Members Involved:** John Karlin

**17. Firm Experience:**

Firm name	Horizon Engineering, LLC		Discipline(s)*		Bridge	
Project name	Independent Technical Review of Lakefront Airport Pump Station Temporary Retaining Structure Design				Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	RNGD			
Project location	New Orleans, Louisiana			Owner's Project Manager	Stephen Abadie	
Owner's address, phone, email	1730 Tchoupitoulas Street, New Orleans, LA 70130 / (504) 620-8022 / sabadie@rngd.com					
Services commenced by this firm (mm/yy)		05/24	Total consultant contract cost (\$1,000's)			22
Services completed by this firm (mm/yy)		11/24	Cost of consultant services provided by this firm (\$1,000's)			22

Horizon Engineering, LLC (Horizon) performed an independent technical review (ITR) of the Lakefront Airport pump station temporary retaining structure (TRS) design. The TRS is required to facilitate construction of an approximately 123'x43'x28' deep reinforced concrete reservoir for a future 600 CFS pump station. The TRS is used to stabilize a 45' deep excavation in soft clays outside of flood protection prior to construction of the seal slab and reservoir. Horizon reviewed the TRS design and calculations and associated plans, specifications, geotechnical report, and construction phase geotechnical investigation information. Horizon prepared independent calculations for approximate TRS force effects and TRS components, including sheeting, walers, and struts, and a report summarizing the independent technical review. Horizon also performed ITRs of revised TRS designs.

**Firm Members Involved:** John Karlin and Ben Bartlett

**17. Firm Experience:**

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road	
Project name	Zellwood Station Phase 3				Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Zellwood Development Group, LLC			
Project location	Zellwood, Florida			Owner's Project Manager	Steve MacGeorge	
Owner's address, phone, email	2893 Upland Ridge, Chuluota, FL 32766 / (321) 356-1802 / stevemacgeorge@smacgeorge.com					
Services commenced by this firm (mm/yy)		03/24	Total consultant contract cost (\$1,000's)			72
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			72

The Zellwood Site consists of approximately 10.4 acres and is located on the east side of W. Orange Blossom Trail (US 441). Horizon Engineering, LLC (Horizon) prepared a conceptual planning study to investigate the subdivision of the site, drainage requirements, and improvements to access from US 441; prepared final plans and specifications; and is currently awaiting permit reviews. Horizon's duties include:

- Review of site zoning information/maps, topographic and boundary surveys, traffic studies, and geotechnical investigations and reports.
- Preparation of preliminary site plans illustrating potential configurations of commercial lots within the site.
- Hydrologic and hydraulic modeling, analysis, and design to determine subsurface drainage and detention pond requirements for multiple configurations of the site.
- Coordination with the Florida Department of Transportation (FDOT), Federal Aviation Administration (FAA), St. Johns River Water Management District, Orange County, and City of Apopka.
- Investigation of potential improvements to access from US 441, including the feasibility of widening the existing shared driveway and adding new driveways, turn lanes, and/or a signalized intersection.
- Coordination and relocation of utilities.
- Permitting assistance.
- Preparation of final plans and specifications, including site grading; subsurface drainage and detention pond; widening of existing asphalt pavement driveway, new Portland Cement Concrete (PCC) pavement driveway, concrete curbs, sidewalks, curb ramps, and pavement markings; potential signalized intersection and associated median modifications; and other miscellaneous features.
- Construction support.

**Firm Members Involved:** Brett Liuzza, Ben Bartlett, and John Karlin

**17. Firm Experience:**

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road, Traffic	
Project name	Zellwood Station Phase 3 Traffic Study				Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Zellwood Development Group, LLC			
Project location	Zellwood, Florida			Owner's Project Manager	Steve MacGeorge	
Owner's address, phone, email	2893 Upland Ridge, Chuluota, FL 32766 / (321) 356-1802 / stevemacgeorge@smacgeorge.com					
Services commenced by this firm (mm/yy)		08/24	Total consultant contract cost (\$1,000's)			54
Services completed by this firm (mm/yy)		12/24	Cost of consultant services provided by this firm (\$1,000's)			54

The Zellwood Site consists of approximately 10.4 acres and is located on the east side of W. Orange Blossom Trail (US 441). Horizon Engineering, LLC (Horizon) completed a traffic study to evaluate access to the site from US 441 in accordance with Florida Department of Transportation (FDOT) requirements. Horizon's duties included:

- Review existing volume counts, turning movement counts, and driveway/median opening counts along US 441.
- Review crash data along US 441, perform crash data analysis, and prepare collision diagrams.
- Perform traffic signal warrant analysis.
- Estimate increased traffic volume due to development of site.
- Evaluate sight distance requirements.
- Prepare conceptual layouts for multiple alternatives, including signalized intersection with new left turn lane from US 441, median openings, driveways, and adjustments to timing of adjacent traffic signals.
- Prepare preliminary temporary traffic control plans, highway and driveway plan and profile, and cross sections.
- Prepare preliminary drainage calculations.
- Coordinate with FDOT.

**Firm Members Involved:** Ben Bartlett, Brett Liuzza, and John Karlin

**17. Firm Experience:**

Firm name	SJB Group, LLC		Discipline(s)*		Survey, Right-of-Way	
Project name	Rural Bridge Replacement Initiative Phase 1				Firm responsibility (prime or sub?)	Sub
Project number	See below.	Owner's name	Louisiana Department of Transportation and Development			
Project location	Multiple Locations in Louisiana (Districts 03,07,61,62)			Owner's Project Manager	Brian Allen	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1105, brian.allen@la.gov				
Services commenced by this firm (mm/yy)		8/20	Total consultant contract cost (\$1,000's)			\$1,254
Services completed by this firm (mm/yy)		4/24	Cost of consultant services provided by this firm (\$1,000's)			\$1,254

State Project Numbers: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997

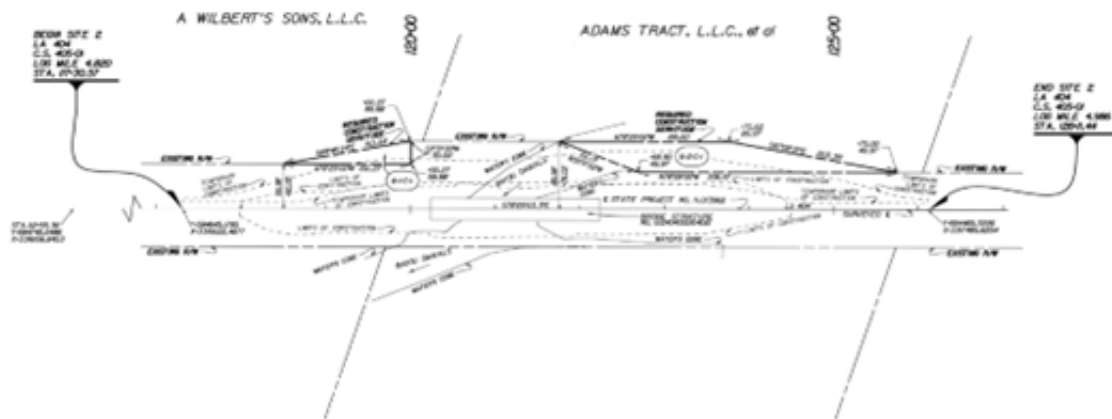
Firm's Role and Responsibilities: Topographic Surveying, Property Surveying, Right-of-Way Mapping

Highlighted Team Members: Tim Brewer, PLS, Matt Estopinal, PLS, Elvis Nguyen, Phillip Dowden, John Burleigh, Duke Koontz, C. Paul Young, Tyler Foster

SJB Group performed **topographic surveying, property surveying, right-of-way mapping**, and roadway design of 33 bridge replacements for Districts 03, 07, 61, and 62 as a sub-consultant to Burk-Kleinpeter within their contract with the LA Department of Transportation (LA DOTD). The topographic survey was completed in accordance with all principles and objectives set forth in the latest version of the LA DOTD Location and Survey Manual. A complete topographic survey of the project corridor for each site included a complete inventory for each drainage structure (type, size, length, and invert), and includes cross sections of all drainage ways.

Property surveys were carried out for all potentially affected properties within the project corridor. Right-of-way mapping was also performed for each roadway along the project corridor. Roadway design included vertical and horizontal alignment of the bridge transitions, guard rails, and embankment design, typical roadway sections, and roadside drainage. The deliverables included preparation of property maps, base right-of-way maps, final right-of-way maps, Bently design files, drawing files, right-of-way map sets, and the preparation of a parcel input file of the acquisition parcels. The survey was conducted according to the LA DOTD location and survey manual "Addendum A" requirements.

The deliverables were provided in accordance with the LA DOTD guidelines for electronic deliverables.



**17. Firm Experience:**

Firm name	SJB Group, LLC		Discipline(s)*		Survey	
Project name	LA 1 to LA 415 Connector to Interstate 10				Firm responsibility (prime or sub?)	Prime
Project number	H.005121	Owner's name	LA Department of Transportation and Development			
Project location	Port Allen, West Baton Rouge Parish, Louisiana		Owner's Project Manager		Jonathan Herrod	
Owner's address, phone, email		1202 Capital Access Road, Baton Rouge, LA		225-379-1105	Jonathan.Herrod@la.gov	
Services commenced by this firm (mm/yy)		10/23	Total consultant contract cost (\$1,000's)			\$247
Services completed by this firm (mm/yy)		12/24	Cost of consultant services provided by this firm (\$1,000's)			\$242.9

Firm's Role and Responsibilities: Topographic Survey, Subsurface Utility Engineering (SUE)

Highlighted Team Members: C. Tim Brewer, PLS | Colby Mire, PLS | Tyler Foster | Elvis Nguyen | Phillip Dowden | Erick Kidder

The project provides field data for the final design of a roadway to connect LA 1 to LA 415. The project is a supplement to previously performed surveying for the realignment of the due to recent development and construction. The project limits included a 2.9-mile corridor beginning approximately 0.2 miles north of the intersection of I-10 and LA 415 and continuing in a southeasterly direction along the extension of LA 415 across the intercoastal canal, industrial areas, and agriculture field to the intersection of LA. The project limits also include an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas. The project includes the collection of current conditions of the areas included in the project limits and merging the current data with the previous survey and updating any observed condition changes. The project includes the recovery and supplement of the existing control network. The collection of field data is completed through the utilization of conventional survey methods with survey total stations and global positioning systems (GPS). **Mobile LiDaR survey** methods utilized for the collection of data along the high traffic segments of LA 1, Interstate 10 ramps, and LA 415. The data was processed through Trimble Business Center, with data extraction performed through TopoDot. The survey is being conducted according to the Louisiana Department of Transportation and Development Location and Survey Manual. The deliverables will be provided in accordance with the LADOTD guidelines for electronic deliverables.



**17. Firm Experience:**

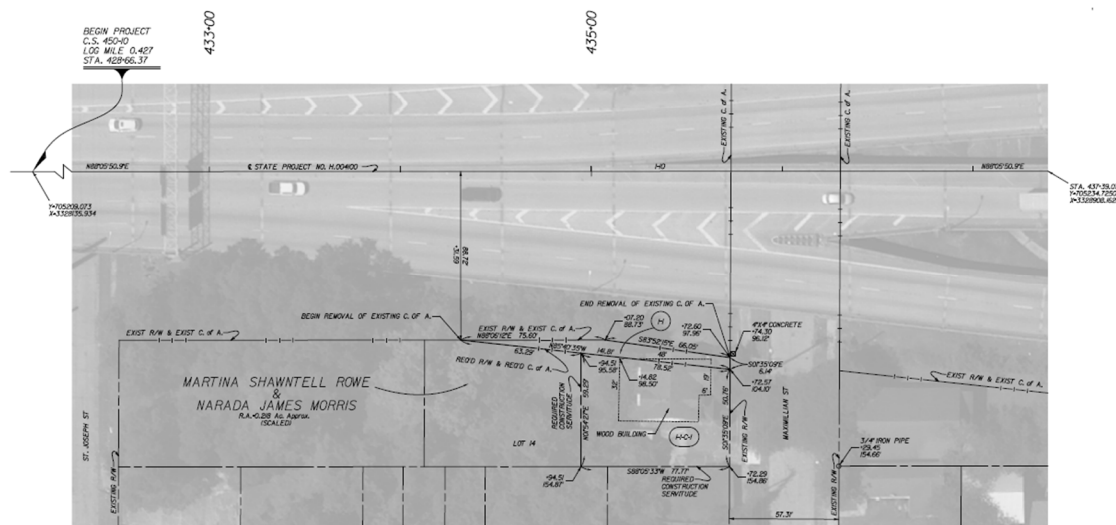
Firm name	SJB Group, LLC		Discipline(s)*		Survey, Right-of-Way	
Project name	I-10 Widening from LA 415 to Essen				Firm responsibility (prime or sub?)	Prime
Project number	H.0016118	Owner's name	LA Department of Transportation and Development			
Project location	East Baton Rouge Parish, Louisiana			Owner's Project Manager	Mark Hughes	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802   225-379-1206   <a href="mailto:Mark.Hughes@la.gov">Mark.Hughes@la.gov</a>					
Services commenced by this firm (mm/yy)		7/21	Total consultant contract cost (\$1,000's)			\$148.3
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$148.3

Firm's Role and Responsibilities: Property Survey, Topographic Survey, Right-of-Way Mapping, Subsurface Utility Engineering (SUE)

Highlighted Team Members: Tim Brewer, PLS, Matt Estopinal, PLS, Phillip Dowden, Tyler Foster, Duke Koontz, C. Paul Young, Colby Mire, PLS, John Burleigh

SJB Group performed **property surveying, partial topographic surveying, and right-of-way mapping** along a 4.4-mile stretch of Interstate 10 extending from LA 415 to Essen Lane in East Baton Rouge Parish for the LA Department of Transportation and Development's widening project. This project included a limited topographic survey to supplement and verify previous topographic surveys of the I-10 and I-12 corridor. Under the current IDIQ contract and task orders, SJB Group performed additional **property surveys** of specific areas designated by the project design team. This project required extensive title research to acquire the necessary existing surveys and deeds for initiation of the property survey portion in addition to the substantial amount of review of the title research reports supplied to SJB by LADOTD. It also required field surveying and mapping of an excess of one hundred parcels along the project corridor, which range in size from small urban residential lots to large commercial tracts. This project corridor also encompasses existing drainage and access servitudes, railroad rights-of-way, and numerous side streets in the heart of Baton Rouge, all of which SJB Group surveyed and mapped. The deliverables included preparation of property map, base right-of-way maps, final right-of-way maps, MicroStation drawing files in Bentley Design Files, right of way map sets, and the preparation of a parcel input file of the acquisition parcels.

The survey was conducted according to the LA Department of Transportation and Development Location and Survey Manual, Addendum "A" requirements. The deliverables were provided in accordance with the LADOTD guidelines for electronic deliverables.



**17. Firm Experience:**

Firm name	Providence Engineering and Environmental Group LLC		Discipline(s)*	Environmental	
Project name	Contract for Replacement of Eight (8) Bridges: H.011963 - LA 648: Drain Canal Bridge			Firm responsibility (prime or sub?)	SUB
Project number	State Project No. H.011963 F.A.P. No. H011963	Owner's name	Aucoin & Associates, Inc.		
Project location	Lafourche, Louisiana		Owner's Project Manager	David Hildago	
Owner's address, phone, email	710 W. Prien Lake Road, Lake Charles, LA 70601, (337) 457-7366, <a href="mailto:d.hidalgo@aucoinandassoc.com">d.hidalgo@aucoinandassoc.com</a>				
Services commenced by this firm (mm/yy)		7/23	Total consultant contract cost (\$1,000's)		N/A
Services completed by this firm (mm/yy)		9/23	Cost of consultant services provided by this firm (\$1,000's)		\$13



The Louisiana Department of Transportation and Development requested a Wetland Findings Report for two existing bridges in Lafourche Parish, Louisiana as part of a larger off-system bridge replacement project. As a subconsultant to Aucoin & Associates, **Providence conducted a wetland delineation and provided a Wetland Findings Report** for the bridge replacement project. Providence biologists documented existence of potential jurisdictional wetlands and non-wetland waters at the sites in accordance with the **1987 Corps of Engineers Wetland Manual** and guidance from the **Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region** (USACE, Wetland Regulatory Assistance Program 2010). After the wetland delineations, Providence prepared a Wetland Findings Report which included discussions of existing wetlands, vegetation communities, and soils based on published soil surveys and soil sampling. The report indicated that evidence of all three diagnostic characteristics for jurisdictional wetlands was not found at any sample location, and the presence of two diagnostic characteristics was not sufficient to confirm the presence of potential jurisdictional wetlands. Data sheets, photographs, and wetland mapping were also included in the Wetland Findings Reports. Providence also prepared and submitted a USACE/Louisiana Department of Energy and Natural Resources (LDENR) Joint Permit Application, as well as coordinated necessary **Solicitation of Views (SOV)** and **clearance documentation** for this project.

Providence staff completed a similar scope of work for Aucoin and Associates, Inc. on other bridge replacements including bridges in Calcasieu (SPN 700-10-0164), St. Mary (SPN 700-51-0111), St. Helena (SPN P46-30419-90470-1), and Tangipahoa (H.014262, H.014263) Parishes. As reflected in both the On- and Off-System bridge projects included, Providence possesses a strong understanding of desired deliverables, timelines, and tasks for projects of this structure, size, and desired outcomes. Successfully adhering to both DOTD and the Prime Contractors' standards was an area of success for these projects.

**RELEVANT TEAM MEMBERS:** Chad Turner, Christopher Coyne, Kenneth McKenzie, Kerry Oriol

**17. Firm Experience:**

Firm name	Providence Engineering and Environmental Group LLC		Discipline(s)*	Environmental	
Project name	Off-System Highway Bridge Program, Hales Road Bridges			Firm responsibility (prime or sub?)	SUB
Project number	State Project No. H.014986.5, F.A.P. No. H014986	Owner's name	Morgan Goudeau & Associates, Inc.		
Project location	Richland Parish, Louisiana		Owner's Project Manager	Kenneth Boagni, III, PE, PLS	
Owner's address, phone, email	1703 West Landry Street, Opelousas, LA (337) 948-4222, kboagni@bellsouth.com				
Services commenced by this firm (mm/yy)		2/24	Total consultant contract cost (\$1,000's)		N/A
Services completed by this firm (mm/yy)		5/24	Cost of consultant services provided by this firm (\$1,000's)		\$8



The Louisiana Department of Transportation and Development requested a Wetland Findings Report for two existing bridges in Richland Parish, Louisiana as part of a larger off-system bridge replacement project. As a subconsultant to Morgan and Goudeau & Associates, Inc., **Providence conducted a wetland delineation and provided a Wetland Findings Report** for the bridge replacement project. Providence biologists documented existence of potential jurisdictional wetlands and non-wetland waters at the sites in accordance with the **1987 Corps of Engineers Wetland Manual** and guidance from the **Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region** (U.S. Army Corps of Engineers [USACE], Wetland Regulatory Assistance Program 2010). After the wetland delineations, Providence prepared a Wetland Findings Report which included discussions of existing wetlands, vegetation communities, and soils based on published soil surveys and soil sampling. The report showed evidence of all three diagnostic characteristics for jurisdictional wetlands at three of the seven sample locations established by Providence. Evidence of poor drainage found in association with hydric soils and predominantly hydrophytic vegetation was considered sufficient to confirm the presence of potential jurisdictional wetlands. Data sheets, photographs, and wetland mapping were included in the Wetland Findings Report.

Providence staff completed a similar scope of work for Morgan and Goudeau Associates, Inc., for other bridge replacements included in the Off-System Bridge Replacements program, including bridges in Ascension (H.013458), Caddo (H.014229), Acadia (H.014220), Lasalle (H.015015), Ouachita (H.014232), St. Martin (H.014226), and Tangipahoa (H.014262, H.014263) Parishes. Providence possesses a strong understanding of desired deliverables, timelines, and tasks for any proposed off system bridge replacement projects.

**RELEVANT TEAM MEMBERS: Chad Turner, Kenneth McKenzie**

**17. Firm Experience:**

Firm name	Providence Engineering and Environmental Group LLC		Discipline(s)*	Environmental	
Project name	MRB South GBR: LA 1 to LA 30 Connector Route: New Route			Firm responsibility (prime or sub?)	SUB
Project number	Supplemental Agreement No. 6, State Project No. H.013284 F.A.P. No. H013284	Owner's name	Atlas Technical Consultants, LLC		
Project location	Ascension, East Baton Rouge, Iberville and West Baton Rouge Parishes, Louisiana	Owner's Project Manager		Kara Moree	
Owner's address, phone, email	8440 Jefferson Highway, Suite 400, Baton Rouge, LA 70809, (225) 369-6587, <a href="mailto:kara.moree@oneatlas.com">kara.moree@oneatlas.com</a>				
Services commenced by this firm (mm/yy)	1/23	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)	6/25	Cost of consultant services provided by this firm (\$1,000's)			\$25



A supplemental agreement was issued by **DOTD** to Atlas to obtain environmental approvals based on the findings of the complete Enhanced Planning investigation for the proposed new Mississippi River bridge construction. Atlas contracted Providence to assist with this overall project management, environmental documentation support, and related environmental services. Providence's specific scope of work including ensuring overall **NEPA compliance**, conducting **wetland delineations**, and conducting a Phase I Environmental Site Assessment. Providence will also continue to provide **agency, stakeholder, and public outreach support** during all pre-NEPA phases of the project. Providence anticipates providing more environmental services as the project progresses and potentially during construction.

The **wetland delineation** encompassed approximately 1,716 acres of forests, agricultural fields/pastures, residential properties, pipeline/utility rights-of-way, highway/railroad rights-of-way, industrial facilities, and Mississippi River levee and batture. Multiple teams of Providence biologists conducted surveys from July to August 2024, collecting field data, habitat descriptions, and other pertinent information in accordance with the **1987 Corps of Engineers Wetland Manual** and guidance from the **Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region** (USACE, Wetland Regulatory Assistance Program 2010). The resulting Wetland Findings Report documented 364 acres of Section 404 wetlands and 26.78 acres of Section 10/404 wetlands, including bottomland hardwoods, baldcypress/water tupelo swamps, and baldcypress swamps. Additionally, Providence conducted habitat evaluations according to the USACE Louisiana Rapid Assessment Method (LRAM) Habitat Condition factor. Each wetland was classified on the three condition levels by habitat (low, medium, and high) and documented in the Wetland Findings Report.

**RELEVANT TEAM MEMBERS:** Chad Turner, Christopher Coyne, Kenneth McKenzie, Kerry Oriol

## 18. Approach and Methodology:

State Project No. H.015982 (Off-System Highway Bridge Program – East Flanacher Rd Over Drainage Canal) will replace one existing bridge in East Baton Rouge Parish, which consists of a reinforced concrete slab span with asphalt overlay, reinforced concrete bent caps, timber piles, and metal guardrails and asphalt approach roads. This project will have a positive impact on the community by improving motorist safety and eliminating the current 5-ton load posting of the bridge.

Horizon's personnel (Brett Liuzza, Lead Civil Engineer and Ben Bartlett, Principal-in-Charge and QA/QC) performed the hydrologic and hydraulic (H&H) analysis, designed the road and drainage improvements, and prepared plans, specifications, and opinions of probable construction cost for the replacement of two similar bridges along East Flanacher Rd. just east of the bridge to be replaced (City-Parish Project No. 12-BR-PT-0020, Recall Nos. 800480 and 800486) in 2015 while at their previous firm. From this experience and our review of the existing site conditions (see Figure 1), we fully understand the scope of work and East Baton Rouge Parish's expectations, which will allow us to significantly reduce the design schedule and cost since a large amount of the work will be identical or similar.



**Figure 1: Existing Site Conditions**

Horizon has already visited the project site and identified the following challenges that will need to be addressed to deliver a successful project:

### 1. BUDGET

Off-system bridge projects typically have limited design and construction budgets given the large number of bridges in the state requiring replacement and the requirement that the local entity (East Baton Rouge Parish) contribute matching funding. Horizon will work extremely efficiently and minimize the design cost and schedule by leveraging technology, our previous East Flanacher Rd. bridge replacement experience, and relationship with East Baton Rouge Parish. Our personnel have a unique combination of experience in both design and construction, which enables us to identify potential constructability issues during the design phase and reduce the potential for costly change orders during construction. We will not rely solely on standard plans and will provide site specific details and accurate

estimated quantities to facilitate competitive, accurate bids by contractors.

### 2. ALIGNMENT

The bridge is located within a curve; therefore, the alignment may need to be modified or a design waiver/exception may be required. If the horizontal geometry is not changed, the limits of construction may need to be extended further to the east than typical to address any superelevation deficiencies.

### 3. EMBANKMENT

Multiple roadside ditches intersect the existing channel (see Figure 2). The design of the embankment, and revetment if required, will be critical to avoiding excessive slopes that could undermine the road.



**Figure 2: Existing Channel and Roadside Ditches**

### 4. PROPERTY ACCESS

An existing driveway is located approximately 10 feet from the western edge of the existing bridge; therefore, coordination

with the property owner will be necessary to provide access during construction.

### DESIGN SCOPE OF WORK

Horizon will complete all design and construction stage tasks listed in Attachment A of the Advertisement in accordance with applicable requirements, such as DOTD Federal Aid Off-System Highway Bridge Program Guidelines; DOTD Minimum Design Guidelines; AASHTO LRFD Bridge Design Specifications; DOTD Bridge Design and Evaluation Manual (BDEM); DOTD Roadway Design Procedures and Details (i.e., Road Design Manual); AASHTO A Policy on Geometric Design of Highways and Streets (i.e., Green Book); AASHTO Highway Safety Manual (HSM); DOTD Hydraulics Manual; DOTD Location and Survey Manual, including Addendum A; DOTD Bridge Design Technical Memoranda (BDTMs); DOTD Engineering Directives and Standards (EDSMs); and DOTD Construction Plans Quality Control/Quality Assurance Manual. Horizon will implement the following approach and methodology, which highlights the major tasks required but is not all-inclusive, to complete the project safely, correctly, on time, and in accordance with DOTD and East Baton Rouge Parish's requirements:

### PRE-DESIGN PHASE

- **Project Set-Up Meeting:** Meet with DOTD and East Baton Rouge Parish personnel to review the contract and scope of services; roles, responsibilities, and expectations; schedule; budget;

bridge/culvert type preferences and associated maintenance concerns; and potential challenges, such as future major developments and projects within the drainage basin, existing utility conflicts, and existing alignment issues (e.g., sharp curves and ROW constraints).

- **Stakeholder Coordination:** Coordinate with East Baton Rouge Parish, DOTD, USACE, NRCS, existing utilities, and other affected stakeholders to identify potential impacts to the project from future major developments and projects within the drainage basin.
- **Existing Data Review:** Review existing data, such as as-builts for the original bridge and road construction and subsequent improvements/repairs; pre-proposal site visit photos, aerials, and street view images; topographic surveys, digital elevation models from USGS and other LIDAR surveys, ROW surveys, and property maps; soil borings and soil data from NCRS; traffic studies, ADT, speed limit, and crash data; existing utility types and locations; master drainage plans and improvement studies; and other related information, if available.
- **Design Schedule:** Prepare design schedule with all major tasks and key milestones, including anticipated submittal review times.
- **Design Progress Meetings:** Meet with DOTD and East Baton Rouge Parish personnel monthly (or more frequently if desired) throughout design. Prepare agendas and meeting minutes.

### TOPOGRAPHIC SURVEY

- **Pre-Survey Site Visit:** Meet with East Baton Rouge Parish at the project site to verify the bridge to be replaced and discuss existing site conditions that could affect the design, such as the existing traffic volume and whether the road can be closed during construction; existing drainage system and frequency/magnitude of flooding; existing road/bridge alignment and adjacent curves; existing utilities; and existing ROW limits.
- **Topographic Survey:** Establish baseline along the centerline of the road/bridge and a minimum of four temporary benchmarks for horizontal and vertical control. Obtain points as necessary to describe the existing bridge and road, including cross sections extending a minimum of 500 feet from each bridge end, the existing gutterlines and bent centerlines, and existing low chord elevation. Obtain points as necessary to describe the existing channel, including cross sections extending a minimum of 150' upstream and downstream of the bridge. Obtain additional points as necessary to describe other notable features, such as grade breaks, large trees, and utilities. The survey will extend a minimum of 500 feet from each bridge end (further to the east due to the existing curve), extend 25 feet beyond the existing/apparent ROW, and will be performed in accordance with the DOTD Location and Survey Manual, including Addendum A.

- **Submittal:** Submit topographic survey information, including field roll, existing drainage map, cross sections, field books, point listings, and photos.

## 50% PRELIMINARY PLANS AND HYDRAULICS

- **H&H Analysis:** Review USGS quadrangle maps and survey data to delineate contributing drainage basins. Calculate peak discharge and maximum water surface elevation for 2, 5, 10, 25, 50, 100, and 500-year flood discharges.
- **Bridge/Culvert Type:** Determine feasible bridge/culvert types and the recommended type for inclusion in the draft hydraulics report considering factors such as safety, construction cost, potential maintenance issues, alignment and ROW requirements, property access, whether design exceptions/waivers are required, and the Parish's preferences.
- **Alignment:** Evaluate the existing road/bridge alignment to determine whether modifications are required (e.g., superelevation at curves) and/or whether design exceptions/waivers are required. Design horizontal and vertical geometry, including superelevation at curves if applicable. Determine anticipated required ROW and limits of construction and whether additional ROW is required.
- **Submittal:** Submit draft hydraulic report and plans, including Title Sheet and Layout Map and Plan and Profile.
- **Pre-Plan-in-Hand:** Discuss with DOTD whether the project can proceed directly

to the Plan-in-Hand phase depending on its complexity.

## PLAN-IN-HAND

- **Cross Section:** Design road/bridge cross section, including lane widths, shoulder widths, cross slope, and superelevation diagram (if applicable); clear zone dimensions; ditch dimensions; existing/apparent ROW, required ROW, and construction limits; erosion control items; and other miscellaneous items.
- **Solicitation of Views (SOV):** Send SOV letter with project specific information to applicable federal, state, and local agencies to identify potential adverse economic, social, and environmental effects on local resources.
- **Submittal:** Submit plans, including Title Sheet and Layout Map, Typical Sections, Plan and Profile, Existing and Design Drainage Maps, Construction Signing, General Bridge Plan and Elevation, and Cross Sections, and the Constructability/Biddability Review Form.
- **Plan-in-Hand Meeting:** Meet with DOTD and East Baton Rouge Parish at the project site to review the plans and identify potential constructability issues.

## POST PLAN-IN-HAND, ROW, AND ENVIRONMENTAL

- **Geotechnical Investigation:** Submit geotechnical investigation request to DOTD, including pile design request, sheet pile wall design request, and

embankment settlement request as applicable.

- **Wetland Studies:** Delineate wetlands in accordance with USACE Wetland Delineation Manual, Atlantic and Gulf Coast Supplement, and New Orleans District requirements. Prepare wetland findings report in accordance with FHWA criteria. Prepare USACE permit drawings.
- **Categorical Exclusion Checklist:** Prepare categorical exclusion checklist based on SOV responses, wetland findings report, and other environmental data collected.
- **ROW Sketches and Agreements:** Prepare required ROW sketches and associated DOTD forms.
- **Submittal:** Submit plans, geotechnical investigation request, wetland findings report, categorical exclusion checklist, and ROW sketches and agreements.

## PRE-ADVANCE CHECKPRINTS

- **Scour:** Perform pile scour analysis and finalize hydraulics report.
- **Bridge Design:** Determine applicable standard plans and special details and prepare additional project specific details as necessary. The plans will clearly identify which standard plans/special details and portions thereof apply to the work and which portions do not apply to the work to avoid contractor confusion.
- **Miscellaneous Details:** Prepare miscellaneous details not included in previous submittals.

- **Estimated Quantities:** Estimate quantities for inclusion in summary sheets.
- **Submittal:** Submit plans, including Title Sheet and Layout Map, Typical Sections, Summary Sheets, Plan and Profile, Erosion Control Plan, Survey Reference Points, Existing and Design Drainage Maps, Summary of Drainage Structures, Construction Signing, Road Standard Plans/Special Details, General Bridge Notes, General Bridge Plan and Elevation, Pile Data Table, Bridge Standard Plans/Special Details, and Cross Sections.

#### ADVANCE CHECKPRINTS

- **Submittal:** Address all pre-advance checkprint comments and submit updated plans.

#### TRACINGS

- **Submittal:** Submit sealed plans, sealed hydraulics report, opinion of probable construction cost, sealed calculation book, and signed QC/QA form.

#### LETTING AND CONSTRUCTION SUPPORT

- **Letting:** If requested, assist DOTD with answering contractor questions and preparing and issuing addenda as necessary.

- **Preconstruction Conference:** Attend preconstruction conference with DOTD, East Baton Rouge Parish, and Contractor.
- **Requests for Information (RFIs) and Submittals:** Review RFIs and submittals, including shop drawings.
- **Construction On-Call Support:** Visit the project site and assist East Baton Rouge Parish and Contractor with questions and clarifications, including Plan and Specification modifications, as necessary to address construction issues, such as misaligned or mislocated piles that require bent modifications.

#### ANTICIPATED SCHEDULE

- **Topographic Survey:** Within 30 days of NTP for Stage 3, Part I
- **50% Preliminary Plans and Hydraulics:** Within 30 days of NTP for Stage 3, Part III
- **Plan-in-Hand:** Within 30 days of NTP for PIH
- **Post Plan-in-Hand, ROW, and Environmental:** Within 45 days of NTP for PPIH, ROW, and Environmental
- **Pre-Advance Checkprints:** Within 45 days of NTP for Stage 3, Part IV
- **Advance Checkprints:** Within 15 days of NTP for ACPs
- **Tracings:** Within 15 days of NTP for Tracings

#### WHY SELECT OUR TEAM?

- We are local and are very familiar with the existing conditions of the project site and surrounding area. We have already visited the project site and have designed two adjacent bridge replacements on East Flanacher Rd. for East Baton Rouge Parish. We fully understand East Baton Rouge Parish's requirements and the project's scope of work.
- We have a unique combination of expertise and experience in design and construction of bridges and roads, including H&H analysis.
- We have the available capacity to quickly complete work and will make this project our top priority.
- We have a personal connection to our work and are deeply invested in the success of this project. We care about our work and its impact on our community and understand how important this project is to improving public safety and connectivity.

We appreciate your consideration of our proposal and hope that we will earn the opportunity to work with DOTD and East Baton Rouge Parish again to replace this East Flanacher Rd. bridge.

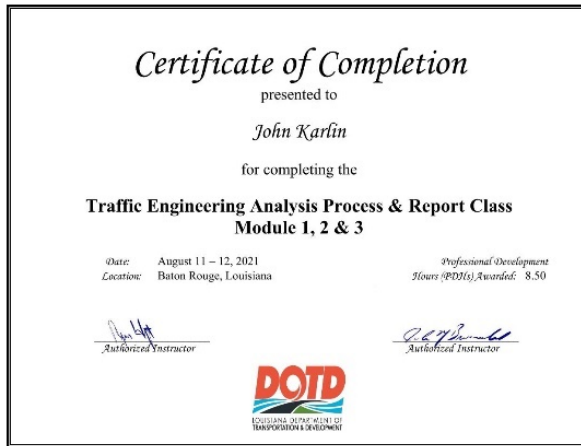
**19. Workload:**

Firm(s) <b>ALL FIRMS</b> MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Horizon Engineering, LLC	N/A	N/A	N/A	N/A
SJB Group, L.L.C.	CPM	Contract Number: 4400017485	IDIQ Contract for Critical Path Method (CPM) Analysis	N/A
	CPM	S.P. No. H.002375.6	LA 16 Amite River Bridge near French Settlement	N/A
	CPM	S.P. No. H.003184.6	I10 Texas S/L – Coone Gulley	\$84,393
	CPM	S.P. No. H.001234.6	LA 1: Port Allen Canal BRIDGE Replacement	\$27,224
	CPM	S.P. No. H.000665.6	UPRR Overpass near Bonita	\$44,797
	CPM	S.P. No. H.002980.6	I-10 Overpass Over US 165	\$19,222
	CPM	S.P. No. H.001344.6	US 190: LA 437-US 190 Bus	\$13,483
	CPM	S.P. No. H.002424.6	LA70 Sunshine Br-LA22	\$23,072
	CPM	S.P. No. H.003047.6	Pecue/ I-10 INTERCHANGE Phase III	\$24,580
	CPM	S.P. No. H.011137.6	I-12 (LA1077)	\$50,048
	CPM	S.P. No. H.010652.6	LA73 (US 61 Airline Hwy)	\$51,228
	CPM	S.P. No. H.012174.6	I-10: Jeff Davis	\$27,254
	CPM	S.P. No. H.013203.6	US90: LA 318-LA 83	\$26,550
	CPM	S.P. No. H.011670.6	I10/ Loyola Interchange	\$147,387
	Survey	Contract No: 44-17597 S.P. No. H.4400017597	IDIQ Surveying Services Rural Bridge Replacement Initiative	\$667
	Survey	Contract No: 44-16018 S.P. No. H.0120012.5	LA 339 Canal and Creek Bridge	\$4,393
	Survey	Contract No: N/A S.P. No. H.013716.5	US 167 Johnston St. – Mt. Vernon - Churchill	\$39,723
	Survey	Contract No: 44-17711 S.P. No. H.005121.5 Task Order 5	LA 1 – LA 415	N/A
	Right-of-Way	Contract No: 44-28371 S.P. No. H.004100.5   Directive 1	I-10 LA 415 Acadian	\$10,536

Firm(s) <b>ALL FIRMS</b> MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
SJB Group, L.L.C. (Continued)	Right-of-Way	Contract No: 44-28371 S.P. No. H.004100.5  Directive 2	I-10 LA 415 Directive 2	\$1,536
	Right-of-Way	Contract No: 44-28371 S.P. No. H.004100.5  Directive 3	I-10 LA 415 to Essen – Directive 3	\$84,651
	Other (DBE)	Contract No: 44-26952 S.P. No. N/A	LA DBE Supportive Services	\$490,714
	Survey	Contract No: N/A S.P. No. H.15487	NOLA PED Safety Improvements Phase 2	\$99,022
Providence Engineering and Environmental Group LLC	CE&I/OV	Contract No. 4400015191; H.004634	IDIQ Contract for Construction Engineering TASK 1 Management and Staff Augmentation Services for District 62, St. Helena, Livingston, St. John, St. Tammany, Tangipahoa and Washington Parishes	\$276,198
	Environmental	Contract No. 4400028050	D07 Water System Decontamination Environmental Consultant Oversight	\$81,989
	Environmental	Contract No. N/A; H. 004791	Belle Chasse Bridge and Tunnel Replacement Public- Private Partnership Project	\$725,464
	Environmental	Contract No. 4400017438; H.013284	Supplemental Agreement No. 6 MRB South GBR: LA 1 to LA 30 Connector Route: New Route Ascension, East Baton Rouge, Iberville, and West Baton Rouge Parishes	\$188,191
	Environmental	Contract No. 4400021783 H.011 963	Contract for Replacement of Eight (8) Bridges, H.011963 – LA 648: DRAIN CANAL BRIDGE	\$2,007

## 20. Certifications/Licenses:

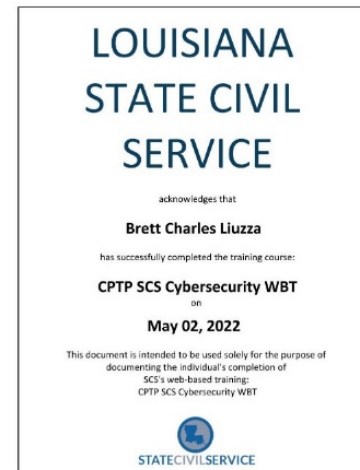
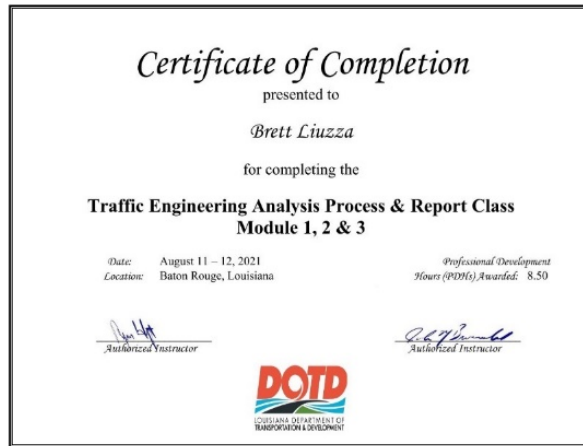
**John Karlin, SE, PE**



**HORIZON ENGINEERING, LLC**

20. Certifications/Licenses:

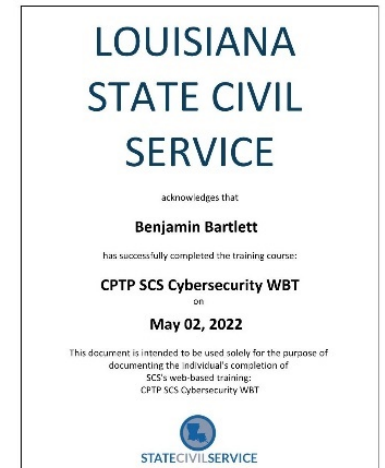
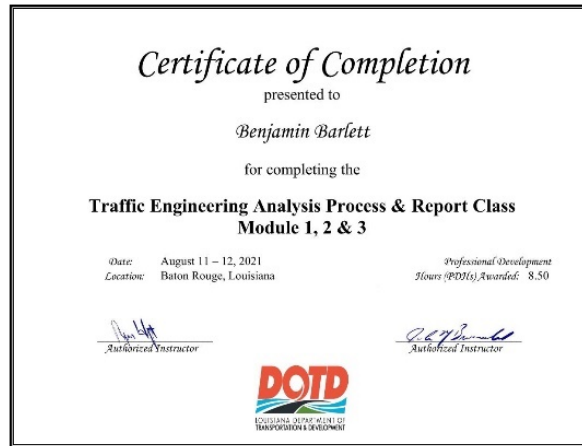
**Brett Liuzza, PE**



**HORIZON ENGINEERING, LLC**

## 20. Certifications/Licenses:

**Ben Bartlett, PE, PTOE**



**HORIZON ENGINEERING, LLC**

20. Certifications/Licenses:

Matthew Estopinal, PE, PLS



20. Certifications/Licenses:

Charles “Tim” Brewer, PLS, PS, RPLS, LS, PS, RF



20. Certifications/Licenses:

James “Duke” Koontz



**20. Certifications/Licenses:**

Employee/Firm	Certifications
<b>Providence Engineering and Environmental Group LLC</b>	
<b>Chad Turner</b>	Richard Chinn 38-Hour Wetland Delineation Training, #5680 NEPA and Transportation Decision Making, National Highway Institute Wetland Plant Identification, Biotic Consultants Introduction to Wetland Photo Interpretation. USGS/University of Louisiana at Lafayette Federal Wetlands/Waters Regulatory Policy, Wetland Training Institute Advanced Hydric Soils, Wetland Training Institute
<b>Chris Coyne</b>	Richard Chinn 38-Hour Wetland Delineation Training, #8969
<b>Kenneth “Mac” McKenzie</b>	Richard Chinn 38-Hour Wetland Delineation Training, #9185
<b>Kerry Oriol</b>	NEPA and Transportation Decision Making, Louisiana Transportation Research Center

## 20. Certifications/Licenses:

### Firm Registrations with Louisiana Secretary of State

**Louisiana SECRETARY OF STATE NANCY LANDRY**

Search for Louisiana Business Filings

This service may be unavailable at times while we perform maintenance beginning at 6:00 AM CST on Sunday, February 2, 2025. We expect the maintenance to conclude by 8:00 AM CST. This message will be removed when the service is fully restored.

[Buy Certificates and Certified Copies](#) | [Subscribe to Electronic Notification](#) | [Print Detailed Record](#)

Name	Type	City	Status
HORIZON ENGINEERING, LLC	Limited Liability Company	METAIRIE	Active

**Previous Names**

**Business:** HORIZON ENGINEERING, LLC  
**Charter Number:** 45713383K  
**Registration Date:** 12/14/2023

**Domicile Address**  
 1013 N. CAUSEWAY BLVD.  
 STE 201  
 METAIRIE, LA 70001

**Mailing Address**  
 1013 N. CAUSEWAY BLVD.  
 STE 201  
 METAIRIE, LA 70001

**Status**  
**Status:** Active  
**Annual Report Status:** In Good Standing  
**File Date:** 12/14/2023  
**Last Report Filed:** 1/9/2025  
**Type:** Limited Liability Company

#### Horizon Engineering, LLC

**Louisiana SECRETARY OF STATE NANCY LANDRY**

Search for Louisiana Business Filings

This service may be unavailable at times while we perform maintenance beginning at 6:00 AM CST on Sunday, February 2, 2025. We expect the maintenance to conclude by 8:00 AM CST. This message will be removed when the service is fully restored.

[Buy Certificates and Certified Copies](#) | [Subscribe to Electronic Notification](#) | [Print Detailed Record](#)

Name	Type	City	Status
SJB GROUP, L.L.C.	Limited Liability Company	BATON ROUGE	Active

**Previous Names**

**Business:** SJB GROUP, L.L.C.  
**Charter Number:** 36063779K  
**Registration Date:** 12/2/2005

**Domicile Address**  
 5344 BRITTANY DRIVE  
 BATON ROUGE, LA 70808

**Mailing Address**  
 C/O MATTHEW ESTOPINAL  
 5344 BRITTANY DRIVE  
 BATON ROUGE, LA 70808

**Status**  
**Status:** Active  
**Annual Report Status:** In Good Standing  
**File Date:** 12/2/2005  
**Last Report Filed:** 12/20/2024  
**Type:** Limited Liability Company

#### SJB Group, L.L.C.

**Louisiana SECRETARY OF STATE NANCY LANDRY**

Search for Louisiana Business Filings

This service may be unavailable at times while we perform maintenance beginning at 6:00 AM CST on Sunday, February 2, 2025. We expect the maintenance to conclude by 8:00 AM CST. This message will be removed when the service is fully restored.

[Buy Certificates and Certified Copies](#) | [Subscribe to Electronic Notification](#) | [Print Detailed Record](#)

Name	Type	City	Status
PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC	Limited Liability Company	BATON ROUGE	Active

**Previous Names**

**Business:** PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC  
**Charter Number:** 34914727K  
**Registration Date:** 3/23/2000

**Domicile Address**  
 1201 MAIN STREET  
 BATON ROUGE, LA 70802

**Mailing Address**  
 1201 MAIN STREET  
 BATON ROUGE, LA 70802

**Status**  
**Status:** Active  
**Annual Report Status:** In Good Standing  
**File Date:** 3/23/2000  
**Last Report Filed:** 2/26/2024  
**Type:** Limited Liability Company

#### Providence Engineering and Environmental Group LLC

HORIZON ENGINEERING, LLC

**21. QA/QC Plan:**

Please see the following pages for Horizon Engineering, LLC's QA/QC Plan for this project.

# **QUALITY ASSURANCE / QUALITY CONTROL PLAN**

## **S.P. No. H.015982.5 Off-System Highway Bridge Program East Flanacher Rd Over Drainage Canal**

**Prepared for:**

**Louisiana Department of Transportation and Development**



**Prepared by:**

**Horizon Engineering, LLC**



**Date: February 11, 2025**

## LIST OF REVISIONS

No.	Date	Description
0	2/11/2025	Initial QA/QC Plan

## TABLE OF CONTENTS

1. Introduction.....	1
1.1. Definitions.....	1
1.1.1. Quality Control .....	1
1.1.2. Quality Assurance .....	1
1.2. Objective .....	1
1.3. Roles and Responsibilities .....	2
1.3.1. Designer .....	2
1.3.2. Detailer.....	2
1.3.3. Design Checker.....	3
1.3.4. Detail Checker .....	3
1.3.5. Reviewer .....	3
1.3.6. Engineer of Record .....	3
2. Quality Control .....	4
2.1.1. Design Criteria .....	4
2.1.2. Bridge Type, Size, and Location.....	4
2.1.3. Preliminary Design Checks.....	4
2.1.4. Preliminary Plans Checks .....	4
2.1.5. Final Design Checks .....	4
2.1.6. Final Plans Checks.....	5
2.1.7. Plan Revisions and Change Orders.....	5
3. Quality Assurance .....	6
3.1. Personnel Qualifications .....	6
3.2. Project Kick-Off Meeting .....	6
3.3. Plans, Reports, and Calculation Book.....	6
3.4. Comment Resolution .....	6
3.5. QA Package Preparation .....	6
3.6. QA Package Review .....	7
3.7. QC/QA Certification .....	7
4. Checklists.....	8

# 1. INTRODUCTION

Horizon Engineering, LLC (Horizon) will implement this Quality Assurance/Quality Control (QA/QC) Plan for State Project No. H.015982.5, Off-System Highway Bridge Program – East Flanacher Rd Over Drainage Canal, which will be revised throughout the project as necessary to address the needs of East Baton Rouge Parish (EBR), the Louisiana Department of Transportation and Development (DOTD), and the project. This QA/QC Plan summarizes the anticipated major bridge design QA/QC tasks and does not repeat DOTD requirements contained elsewhere.

## 1.1. Definitions

### 1.1.1. Quality Control

The 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.

### 1.1.2. Quality Assurance

The 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.

## 1.2. Objective

The objective of the QA/QC Plan is to clearly define the tasks that Horizon will perform to ensure that Horizon's work conforms to applicable DOTD requirements, such as:

- General
  - DOTD Consultant Contract
  - DOTD Consultant Contract Services Manual
  - DOTD Minimum Design Guidelines
  - DOTD Construction Plans Quality Control/Quality Assurance Manual
  - DOTD Engineering Directives and Standards Manual (EDSMs)
  - DOTD Louisiana Standard Specifications for Roads and Bridges (including Supplemental Specifications)
- Bridge Design
  - DOTD Federal Aid Off-System Highway Bridge Program Guidelines
  - DOTD Bridge Design and Evaluation Manual (BDEM)
  - AASHTO LRFD Bridge Design Specifications
  - DOTD Bridge Design Technical Memoranda (BDTMs)
- Road Design
  - DOTD Roadway Design Procedures and Details (i.e., Road Design Manual)

- AASHTO A Policy on Geometric Design of Highways and Streets (i.e., Green Book)
- AASHTO Guidelines for Geometric Design of Low-Volume Roads
- AASHTO Highway Safety Manual (HSM)
- DOTD Pavement PRR Minimum Design Guidelines
- Hydraulics
  - DOTD Hydraulics Manual
  - FHWA Hydraulic Engineering Circular No. 18 – Evaluating Scour at Bridges
- Surveying
  - DOTD Location and Survey Manual (including Addendum A)
- Environmental
  - DOTD Stage 1 – Planning/Environmental Manual of Standard Practice
  - DOTD Off-System Highway Bridge Program Environmental Process Procedures
- Traffic
  - DOTD Traffic Engineering Manual
  - DOTD Traffic Engineering Process and Report
  - DOTD Traffic Signal Manual
  - FHWA Manual on Uniform Traffic Control Devices (MUTCD)

### **1.3. Roles and Responsibilities**

The general roles and responsibilities of major QA/QC personnel are described in the following sections. All personnel are responsible for QC and will initiate further QA/QC actions if they identify any potential issues. Horizon is solely responsible and DOTD is not responsible for QA/QC of Horizon's work.

The Principal-in-Charge will select the Project Manager, and the Principal-in-Charge and Project Manager will select a Design, Detailer, Design Checker, Detail Checker, Reviewer, and Engineer of Record for the entire project or portions of the work, such as bridge and road design. All personnel involved in the project will be qualified to perform their portion of the work.

#### **1.3.1. Designer**

The Designer is the engineer directly responsible for the development of design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The Designer must be a Professional Engineer or Engineer Intern licensed in Louisiana (if the Design Checker is an Engineer Intern, the Designer must be a Professional Engineer).

**Bridge Designer:** John Karlin, SE, PE

**Road and Hydraulics Designer:** Brett Liuzza, PE

#### **1.3.2. Detailer**

The Detailer is the individual directly responsible for the creation of CAD drawings.

**Detailer:** To be determined based on current workload at the time of the NTP.

### **1.3.3. Design Checker**

The Design Checker is the engineer responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The Design Checker must be a Professional Engineer or Engineer Intern licensed in Louisiana (if the Designer is an Engineer Intern, the Design Check must be a Professional Engineer).

**Bridge, Road, and Hydraulics Design Checker:** Ben Bartlett, PE, PTOE

### **1.3.4. Detail Checker**

The Detail Checker is the individual responsible for performing a full review of the CAD drawings. The Detail Checker can be a designer or detailer but cannot be the same individual that performed the original design/detailing.

**Bridge Detail Checker:** John Karlin, SE, PE

**Road and Hydraulics Detail Checker:** Brett Liuzza, PE

### **1.3.5. Reviewer**

The Reviewer is the engineer responsible for ensuring that the QC process is complete and the design calculations, drawings, special provisions, and cost estimate are in accordance with applicable DOTD requirements. The Reviewer must be a Professional Engineer licensed in Louisiana and have extensive experience designing similar structures.

**Reviewer:** Ben Bartlett, PE, PTOE

### **1.3.6. Engineer of Record**

The Engineer of Record is the engineer responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions if required. The Engineer of Record must be a Professional Engineer licensed in Louisiana and have experience designing similar structures.

**Engineer of Record:** John Karlin, SE, PE

## 2. QUALITY CONTROL

Horizon will perform the following QC tasks:

### **2.1.1. Design Criteria**

- Who: Design Checker(s)
- What: Review the design criteria to verify conformance with applicable requirements, assumptions are valid, and that site conditions are considered.
- When: After preparation of the design criteria

### **2.1.2. Bridge Type, Size, and Location**

- Who: Design Checker(s)
- What: Review the bridge type, size, and location to verify conformance with applicable requirements, the design criteria, and that site conditions are considered.
- When: After selection of the bridge type, size, and location

### **2.1.3. Preliminary Design Checks**

- Who: Design Checker(s)
- What: Review preliminary design, including assumptions, calculations, sketches, drawings, special provisions, estimated quantities, and cost estimates, to verify conformance with applicable requirements and the design criteria. Ensure that comments are satisfactorily addressed by the Designer(s).
- When: At each key milestone of the work and as necessary

### **2.1.4. Preliminary Plans Checks**

- Who: Detail Checker(s)
- What: Review preliminary plans to verify conformance with applicable requirements. Ensure that comments are satisfactorily addressed by the Detailer(s).
- When: At each key milestone of the work and as necessary

### **2.1.5. Final Design Checks**

- Who: Design Checker(s)
- What: Review final design, including assumptions, calculations, sketches, drawings, special provisions, estimated quantities, and cost estimates, to verify conformance with applicable requirements and the design criteria. Ensure that comments are satisfactorily addressed by the Designer(s).
- When: At each key milestone of the work and as necessary

#### **2.1.6. Final Plans Checks**

- Who: Detail Checker(s)
- What: Review final plans to verify conformance with applicable requirements. Ensure that comments are satisfactorily addressed by the Detailer(s).
- When: At each key milestone of the work and as necessary

#### **2.1.7. Plan Revisions and Change Orders**

The same process as for initial design will apply to plan revisions and change orders.

### 3. QUALITY ASSURANCE

Horizon will perform the following quality assurance tasks:

#### 3.1. Personnel Qualifications

- Who: Principal-in-Charge and Project Manager
- What: Assign personnel to the project that are qualified to perform the work and have experience performing similar roles for similar projects of a similar magnitude.
- When: Prior to the start of work

#### 3.2. Project Kick-Off Meeting

- Who: Principal-in-Charge, Project Manager, and Designer(s)
- What: Meet with DOTD and East Baton Rouge Parish to review contract and scope of services; roles, responsibilities, and expectations; schedule; and budget.
- When: Prior to the start of work

#### 3.3. Plans, Reports, and Calculation Book

- Who: Engineer of Record
- What: Verify that the plans, geotechnical analysis report, hydraulic report, and calculation book include all necessary information and are sealed by applicable personnel. Verify that plan sheets list the Designer, Design Checker, Detailer, and Detail Checker information.
- When: After completion of plans, reports, and calculation book

#### 3.4. Comment Resolution

- Who: Reviewer
- What: Verify that all design team and DOTD comments have been satisfactorily addressed.
- When: After design/detail checks and as necessary

#### 3.5. QA Package Preparation

- Who: Designer
- What: Prepare QA package, including check list, calculation book, plans, special provisions, cost estimate, and any additional information pertinent to the design.
- When: After Designer(s), Detailer(s), Design Checker(s), and Detail Checker(s) are satisfied with the state of the work.

### **3.6. QA Package Review**

- Who: Reviewer
- What: Review QA package to verify conformance of the work with applicable requirements, with a focus on constructability, critical components, and aspects of the design where errors and emissions are more likely to occur.
- When: After preparation of the QA package

### **3.7. QC/QA Certification**

- Who: Engineer of Record
- What: Ensure that the QC/QA certification form is signed by all relevant individuals.
- When: Prior to transmittal

## 4. CHECKLISTS

At a minimum, the following checklists from DOTD BDEM Part I Chapter 3 will be used:

- Design Criteria Checklist (Appendix A)
- Final Calculation Book Checklist (Appendix B)
- QA Information Package Checklist (Appendix C)
- QC/QA Certification (Appendix D)
- Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist (Appendix H)
- Consultant Submittal QC/QA Certification (Appendix I)

**22. Sub-consultant information:**

<b>Firm Name</b> <b>(Name must match <u>exactly</u> as registered with Louisiana’s Secretary of State (SOS): <u>including punctuation, include screenshot(s) from SOS at the end of Section 20</u>)</b>	<b>Address</b>	<b>Point of Contact and email address</b>	<b>Phone Number</b>
SJB Group, L.L.C.	5344 Brittany Drive Baton Rouge, LA 70808	Charles “Tim” Brewer <a href="mailto:Tim.Brewer@sjbgroup.com">Tim.Brewer@sjbgroup.com</a>	(225) 769-3400
Providence Engineering and Environmental Group LLC	1201 Main Street Baton Rouge, LA 70802	Chad Turner <a href="mailto:chadturner@providenceeng.com">chadturner@providenceeng.com</a>	(225) 766-7400

**23. Location:**

If location is an evaluation criterion for this advertisement (see page 2) 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 Evaluation Criteria section of the advertisement.**