

**CONTRACT NO. 4400032130
IDIQ CONTRACT FOR PAVEMENT
PRESERVATION SERVICES**

**STATEWIDE WITH MAJORITY
OF WORK IN DISTRICT 58**

FOR



MAY 28, 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	IDIQ CONTRACT FOR PAVEMENT PRESERVATION SERVICES STATEWIDE WITH MAJORITY OF WORK IN DISTRICT 58
2. Contract Number(s) as shown in the advertisement	4400032130
3. State Project Number(s), if shown in the advertisement	N/A
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:

May 28, 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):
Civil Design & Construction, Inc.


Firm(s)' %:
10%

12. Discipline Table:

Discipline(s)	% of Overall Contract	Horizon Engineering, LLC (Prime)	Delta Design Professionals LLC	Delta Land Surveying, LLC	Civil Design & Construction, Inc. (DBE)	Each Discipline must total to 100%
Road	60%	60%	40%	0%	0%	100%
Survey	25%	0%	0%	60%	40%	100%
Traffic	10%	100%	0%	0%	0%	100%
ITS	5%	100%	0%	0%	0%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	100%	51%	24%	15%	10%	100%

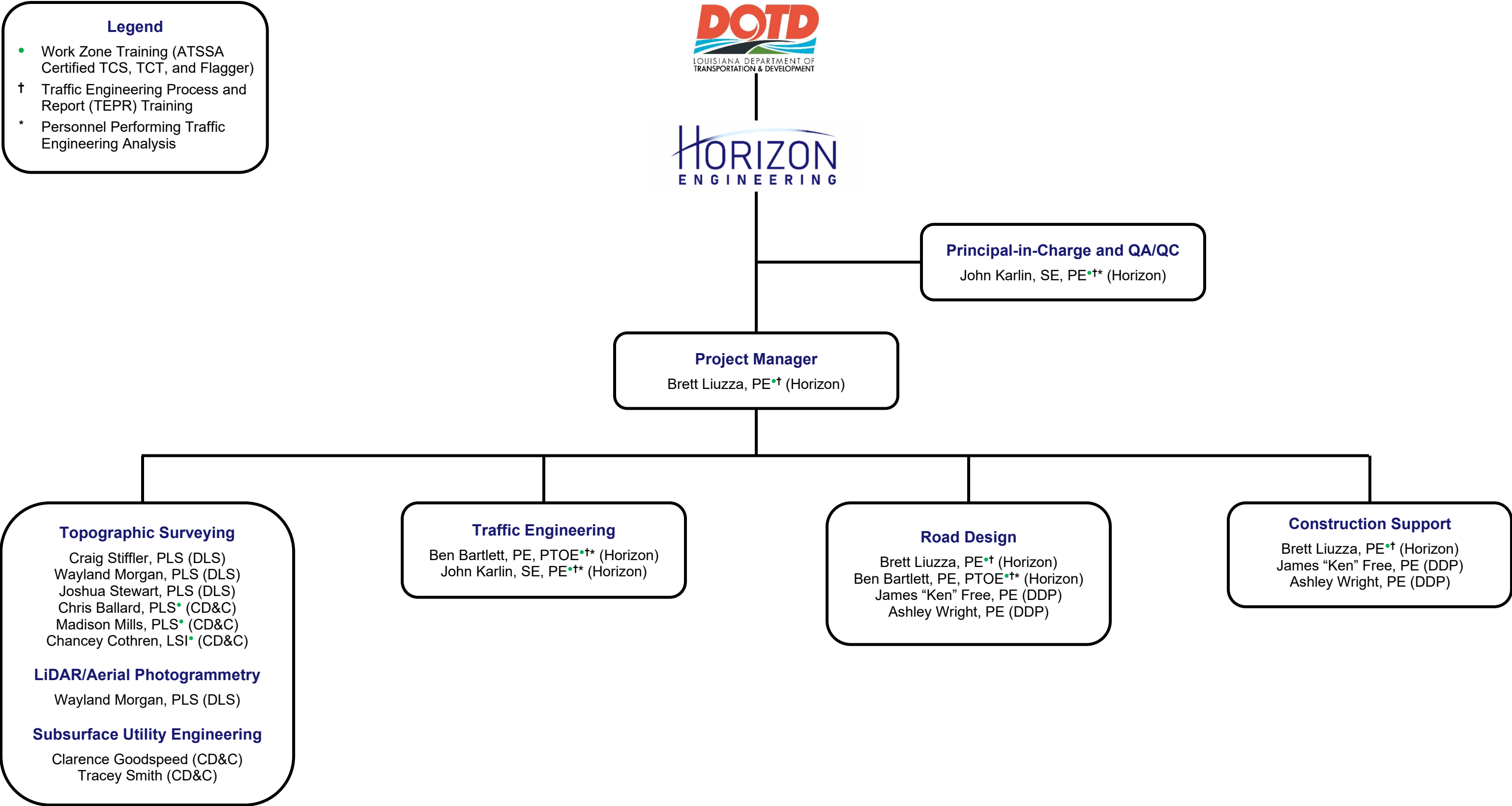
13. Firm Size:

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)
 Horizon Engineering, LLC	Principal	1	3
	Supervisor - Eng	0	3
	Engineer	2	3
	CADD Technician	1	1
	Inspector - Lead	1*	1
	Inspector - Certified	1*	1
	Inspector	2*	4
 DELTA DESIGN PROFESSIONALS <small>A CIVIL ENGINEERING CO.</small> Delta Design Professionals LLC	Principal	1	2
	Engineer	1	2
 Delta Land Surveying, LLC	Surveyor	3	3
	CADD Technician	2	2
	Party Chief	2	2
	Instrument Man	1	1
 Civil Design & Construction, Inc.	Surveyor	1	2
	Supervisor – Other	1	1
	Party Chief	3	4

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)
 Civil Design & Construction, Inc. (Continued)	Instrument Man	2	2
	Rodman	2	2
	CADD Operator	1	1
	Senior Technician	3	5

*Inspectors will be used as necessary to facilitate field investigations and traffic data collection/analysis.

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	John Karlin, SE, PE	Horizon Engineering, LLC	PE #44795 – Civil and Structural SE #081-008511	LA IL	3/31/2027 11/30/2026
2	Brett Liuzza, PE	Horizon Engineering, LLC	PE #37753 – Civil	LA	9/30/2025
	Ben Bartlett, PE, PTOE	Horizon Engineering, LLC	PE #38980 – Civil PTOE #4020	LA USA	9/30/2026 3/29/2028
3	Brett Liuzza, PE	Horizon Engineering, LLC	PE #37753 – Civil	LA	9/30/2025
	Ben Bartlett, PE, PTOE	Horizon Engineering, LLC	PE #38980 – Civil PTOE #4020	LA USA	9/30/2026 3/29/2028
4	Craig Stiffler, PLS	Delta Land Surveying, LLC	PLS #5161	LA	9/30/2026
	Chris Ballard, PLS	Civil Design & Construction, Inc.	PLS #5033	LA	9/30/2026

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
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	Role: Project Manager and Lead Road Design Engineer (Satisfies MPRs 1, 2, and 3) Responsibilities: Project management, field investigation, road design, and coordination with DOTD and local public agencies.		
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"> Over 16 years of road design and construction experience, including many recent DOTD and DOTD LPA projects involving PCCP panel replacement, asphalt milling, patching and overlay, and full reconstruction. Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. 		
07/13 – 04/16	Jefferson Parish Submerged Roadways Program Owner: Jefferson Parish. Scope: Evaluation of Hurricane Katrina related road damage and repair/replacement of deficient roads (85 PCC pavement streets and 8 miles of asphalt roads). Cost: ≈\$50,000,000 (est.). Role: Civil Engineer. Evaluated roadway damage. Designed asphalt pavement milling/overlay and patching, PCC pavement panel replacement, sidewalk modifications, ADA compliant curb ramps, utility adjustments, and adjustments to drop inlets, manholes, and other drainage structures in the roadway. Prepared plans, specifications, and opinions of probable construction cost. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.		
05/21 – 12/22	RR122 and RR123 Marlyville-Fontainebleau Groups G and H (FRC) Owner: City of New Orleans. Scope: Road reconstruction, including drainage, sewer lines, water lines, curbs, driveways, sidewalks, and curb ramps. Cost: ≈\$23,000,000 (est.). Role: 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.		
07/12 – 10/16	H.002550.6-R1 (Phase 1A) and H.009933.6 (Phase 1B) – MacArthur Interchange Completion Owner: LaDOTD. Scope: Construction of entrance/exit ramps for Westbank Expressway and relocation of frontage road and associated utilities. Cost: ≈\$42,000,000. Role: 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.		

Brett Liuzza, PE (Continued)

07/21 – 01/24	<p>H.007273.6 – Magazine St (Leake Ave to East Drive) Owner: City of New Orleans (LaDOTD LPA project). Scope: Replacement of asphalt roadway with PCC pavement roadway (including curb, driveways, sidewalks, and handicap ramps) and drainage, sewer, and water improvements. Cost: ≈\$4,500,000. Role: 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 roadway. Performed Site Manager duties. Coordinated construction materials testing. Prepared change orders and project closeout documentation.</p>
09/20 – 07/22	<p>Milneburg Group B (FRC) Streets Owner: City of New Orleans. Scope: Road reconstruction, including drainage, sewer lines, water lines, curbs, driveways, sidewalks, and curb ramps. Cost: ≈\$7,400,000. Role: 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>
05/23 – 01/24	<p>H.014315.6 – Grafton Drive Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curb, driveways, and curb ramps. Cost: ≈\$1,000,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Coordinated construction materials testing. Developed adjustments to drop inlets, manholes, and other drainage structures in the road. Prepared change orders and project closeout documentation.</p>
10/23 – 01/24	<p>H.014317.6 – Carey St. Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curb, driveways, and handicap ramps. Cost: ≈\$970,000. Role: Project Manager and Lead Construction Engineer. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Performed SiteManager duties. Coordinated construction materials testing. Developed adjustments to drop inlets, manholes, and other drainage structures in the roadway. Prepared change orders and project closeout documentation.</p>
07/13 – 05/22	<p>Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) Owner: SLFPA-E. Scope: Fortification of the Lake Pontchartrain seawall and road, pedestrian, drainage, and lighting improvements (5.2 miles long). Cost: ≈\$50,000,000. Role: 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>

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
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		Role: Lead Traffic Engineer and Road Design Engineer (Satisfies MPRs 1, 2, and 3) Responsibilities: Traffic data collection and analysis, temporary traffic control design, ITS design, and road design.	
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"> Over 15 years of traffic engineering and road design experience, including traffic studies in accordance with DOTD TEPR requirements and DOTD LPA projects involving Intelligent Transportation Systems (ITS), PCCP panel replacement, and asphalt milling, patching, and overlay. Licensed Professional Traffic Operations Engineer with significant experience coordinating, designing, inspecting, and adjusting temporary traffic control to promote motorist, pedestrian, and worker safety within active construction zones. Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. 		
04/23 – 01/24	US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study Owner: Jefferson Parish. Scope: Traffic study in accordance with LaDOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). Fee: ≈\$190,000. Role: Lead Traffic Engineer. Led 5 field personnel for volume count, turning movement count, and driveway/median opening count equipment installation, peak period observations, and geometric field review. Determined peak period, peak hour, and unmet demand. Balanced volumes and prepared unbalanced and balanced volume maps. Performed traffic signal warrant analysis and crash data analysis. Prepared collision diagram and LaDOTD TEPR documentation.		
05/23 – 01/24	H.011779.6 – Power Blvd. Median Improvements and Pedestrian Traffic Study Review Owner: City of Kenner (LaDOTD LPA project). Scope: Installation of a multi-use path and landscaping in the median of Power Blvd. as well as a pedestrian/bicycle truss bridge over Canal No. 1. Cost: ≈\$3,400,000. Role: Project Manager and Lead Construction and Traffic Engineer. During construction, re-evaluated the location of a pedestrian crossing at Vintage Dr. and prepared a report that identified an improved crossing location based on vehicular and pedestrian traffic data as well as existing site features.		

Ben Bartlett, PE, PTOE (Continued)

03/21 – 01/24	H.013939.6 – Veterans Blvd Transit Signal Priority Owner: Jefferson Parish (LaDOTD LPA project). Scope: Installation of new traffic signal controllers and a transit signal priority system along Veterans Blvd. (32 intersections between Loyola Dr. in Kenner and Pontchartrain Blvd. in Orleans Parish and 22 Jefferson Parish Transit buses). Cost: ≈\$510,000. Role: Project Manager and Lead Construction Engineer. Coordinated priority system testing and advised on priority system requirements and operational gaps.
08/24 – 12/24	Zellwood Station Phase 3 Traffic Study and ICE Owner: Private. Scope: Traffic study in accordance with FDOT requirements to evaluate access to the ≈10.4 acre Zellwood Station site from US 441 / W Orange Blossom Trail. Fee: ≈80,000. Role: Lead Traffic Engineer. Reviewed volume counts, turning movement counts, driveway/median opening counts, and crash data along US 441. Performed traffic signal warrant analysis and crash data analysis. Evaluated sight distance requirements. Prepared conceptual layouts for multiple alternatives, including signalized intersection with new turn lanes, median openings, and driveways and adjustments to timing of adjacent traffic signals. Performed intersection control evaluation (ICE).
01/20 – 06/21	Lakeside Mall / Severn Avenue Intersection Traffic Study and Improvements Owner: Private. Scope: Traffic study to evaluate the Lakeside Mall entrance/exit along Severn Avenue. Fee: ≈\$40,000 (est.). Role: Project Manager and Lead Civil, Traffic, and Construction Engineer. Led 4 field personnel for volume count, turning movement count, and pedestrian count equipment installation. Performed additional field observations during peak traffic/shopping periods. Performed warrant analysis. Designed expansion of the existing entrance/exit, drainage and utility relocations (sewer, water, electricity, gas, and internet), and ADA compliant pedestrian routes. Prepared plans and specifications.
10/18 – 07/19	Lakeshore Drive Vehicular and Pedestrian Traffic Study Owner: SLFPA-E. Scope: Vehicular and pedestrian traffic study along Lakeshore Drive. Fee: ≈\$40,000. Role: Project Manager and Lead Traffic Engineer. Led data collection and analysis (volume counts, turning movement counts, and pedestrian counts). Reviewed traffic accident reports, existing roadway geometry (i.e., sight lines/distances), and crosswalk warrant analysis to determine traffic calming and pedestrian crossing improvement options.
06/10 – 09/14	St. Charles Parish Road Maintenance Program (2010 – 2014) Owner: St. Charles Parish. Scope: Annual inspection of all St. Charles Parish-owned roads and repair/replacement of deficient roads. Cost: ≈\$1,500,000 annually. Role: 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.
10/23 – 01/24	H.014317.6 – Carey St. Pavement Rehabilitation Owner: City of Slidell (LaDOTD LPA project). Scope: Repair/replacement of deficient PCC pavement panels, curbs, driveways, and handicap ramps. Cost: ≈\$970,000. Role: Construction Engineer. Managed inspectors. Reviewed RFIs, submittals, and pay applications, and construction materials testing. Developed adjustments to curb ramps based on existing site conditions. Reviewed change orders and project closeout documentation.

16. Staff Experience:

Firm employed by Horizon Engineering, LLC			
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		Role: Principal-in-Charge, Traffic Engineer, and QA/QC (Satisfies MPRs 1, 2, and 3) Responsibilities: Contract administration, traffic data collection and analysis, QA/QC, and coordination with DOTD and local public agencies.	
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"> Over 7 years of traffic engineering and road/bridge design experience. Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. 		
04/23 – 01/24	US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study Owner: Jefferson Parish. Scope: Traffic study in accordance with LaDOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). Fee: ≈\$195,000. Role: Project Manager and Traffic Engineer. Led coordination with Jefferson Parish, LaDOTD Traffic Engineering Division, RPC, JPSO, and LSP. Prepared scope of work. Managed 6 field personnel for volume count, turning movement count, and driveway/median opening count equipment installation, peak period observations, and geometric field review. Reviewed peak period, peak hour, unmet demand, balanced volumes, and unbalanced and balanced volume maps.		
07/21 – 12/22	H.013897 – I-10 and I-12 College Flyover Ramp Design-Build Owner: LaDOTD. Scope: 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. Cost: ≈\$52,000,000. Role: 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.		
10/18 – 07/19	Lakeshore Drive Vehicular and Pedestrian Traffic Study Owner: SLFPA-E. Scope: Vehicular and pedestrian traffic study along Lakeshore Drive. Fee: ≈\$40,000. Role: Traffic Engineer. Obtained and analyzed volume counts, turning movement counts, and pedestrian counts to assist with the determination of traffic calming and pedestrian crossing improvement options for Lakeshore Drive.		

John Karlin, SE, PE (Continued)

10/23 – 01/24	<p>Relocation of East St. Bernard Highway and Associated Utilities (CMAR) Owner: Port of New Orleans. Scope: 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). Cost: ~\$50,000,000 (est.). Role: 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.</p>
05/19 – 09/21	<p>Lake Pontchartrain Causeway Southbound Bridge Rail Improvements Scope: Installation of enhanced steel bridge rails and other miscellaneous repairs (~138,000 anchors and 48 miles of steel rail) while maintaining ADT of over 20,000. Cost: ~\$40,000,000. Role: Construction Engineer. Inspected temporary lane closures of over 10 miles long. Managed 10 inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Managed inventory for ~\$19,000,000 of stockpiled raw materials and inspected fabricated steel posts and rails prior to installation. Coordinated construction materials testing. Prepared change orders and project closeout documentation.</p>
09/17 – 03/18	<p>US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Conceptual Planning Study Owner: NORPC. Scope: Conceptual planning study for potential intersection improvements (15 potential options). Role: Project Manager and Lead Traffic Engineer. Led coordination with RPC, LaDOTD, Jefferson Parish, and other stakeholders and the conceptual development of potential options to alleviate congestion, including modifications and improvements to the existing J-turn bridge, traffic signals, signage, and pavement markings. Prepared conceptual layouts for 15 potential options and opinions of probable construction costs for 5 potential options. Presented potential options to the public at public meetings.</p>
01/21 – 01/24	<p>Rehabilitation of Causeway Boulevard/Airline Drive Interchange Scope: Structural inspection and rehabilitation of 1950s elevated interchange (8 ramps, traffic circle, and 4 lane overpass). Cost: ~\$18,000,000 completed, ~\$41,000,000 (est.) remaining. Role: 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. 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.</p>
09/17 – 03/22	<p>Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) Owner: SLFPA-E. Scope: Fortification of the Lake Pontchartrain seawall and road, drainage, and lighting improvements (5.2 miles long). Cost: ~\$50,000,000. Role: Structural Engineer and Construction Engineer. Designed pile and sheet piling layouts, grade beams, tree preservation walls, slabs, expansion joints, retaining walls, drainage outfalls, sheet pile pipe penetrations, and light foundations. Assisted with preparation of permit drawings for SLFPA-E, CPRA, and USACE for construction in proximity to existing Bayou St. John floodwalls. Performed reinforcement inspections. Reviewed RFIs and submittals. Assisted with review of pay applications and preparation of change orders and project closeout documentation.</p>

16. Staff Experience:

Firm employed by Delta Design Professionals LLC			
Name	James “Ken” Free, 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 / 1988 / Civil Engineering	
Active registration number / state / expiration date		25185 / LA / 09/30/2025	
Year registered	1993	Discipline	Civil
Contract role(s) / brief description of responsibilities		Role: Road Design Engineer Responsibilities: Project management, field investigation, road design, and coordination with DOTD and local public agencies.	
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).		
05/1988 – Present	<ul style="list-style-type: none"> Over 33 years of contract administration, construction engineering, and project delivery experience with LADOTD, District 58. Served as Project Engineer, Construction Engineer, Area Engineer, Operations Engineer, and District Administrator. District 58 Project Engineer with LADOTD - In excess of 157 preservation and new construction projects, approx. \$173,000,000 - contract administration of pavement and bridge preservations, new bridge and roadway construction projects, asphalt surface treatment projects, pavement preservation research projects and facility renovation. District 58 Construction Engineer, Area Engineer and District Administrator – Responsible for selection, scheduling and budgeting pavement and bridge preservation projects. Selection based on district needs and PPS data. While serving in the roles of DOTD Project Engineer, Construction Engineer and Area Engineer was responsible for project scoping for preservation project recommendations which included treatment recommendations and estimated construction budget. Established a working relationship with local governmental leaders to address transportation needs and secure funding for District 58 transportation assets. Served on numerous LADOTD Research Committees. Currently employed by ECM as Quality Manager on the Jimmie Davis Bridge - LADOTD Design-Build Project – Shreveport / Bossier LA. Certified ATSSA Flagger, Traffic Control Technician (TCT) and Traffic Control Supervisor. 		
03/18 – 01/22	Louisiana DOTD District Engineer Administrator Served as District Engineer Administrator for DOTD District 58 leading over 200 multidisciplinary staff ensuring quality delivery. Directed all of Chase District operations including Construction, Maintenance, Engineering, Traffic Services, Business Office, Ferry Operations, Roads, Bridges and other LA DOTD Facilities throughout the districts’ six parishes. Routinely rode every road in the district to identify needs and program projects based on funding levels and worked closely with the District Design Team in project selection. Scheduled each Friday of the work week to inspect roadway conditions and performance of construction and maintenance crews related to quality of work and safety for the motoring public.		

12/10 – 03/18	Louisiana DOTD District 58 Operations Section Served as Operations Engineer managing the District's On-System and Off-System Bridge Inspection Program, Bridge Repairs, Districtwide Asphalt Program, Vegetation Maintenance, Roadway Sign Maintenance, Roadway Striping, Ferry Operations, Facility Maintenance, Equipment Acquisitions, District Budget Office, Traffic Engineering Section, Access Connection Section, and Utility Permit Section. Was responsible for all Districtwide pavement preservation, bridge preservation and emergency repairs performed by Districtwide forces.
09/88 – 12/10	Louisiana DOTD District 58 Construction Section Served as Project Engineer, Construction Engineer, and Area Engineer on multiple new roadway and bridge construction projects along with pavement preservation, bridge rehabilitation projects and DOTD coordinator for multiple DOTD / Municipality Cooperative Endeavor Agreements.
2023 – Present	SP No. H.001799: Jimmie Davis Bridge (LA 511) – Design Build: LADOTD, Bossier Parish LA: Construction Cost: \$361.7 M / Owner: LADOTD Currently serves as the Jimmie Davis Bridge Quality Control Manager for ECM. Responsible for overseeing the overall quality program and the preparation, implementation, and update of the quality plan for the Design-Builder including management, design and construction. Responsible for Resolution of Non-Conformance Reports (NCR). Works closely with the Construction Quality Control Manager to resolve construction related quality control issues for drill shafts, piling, pavements, soils, etc.
2008	SP No. 026-06-0058: LA 15, Gilbert Concrete Section: LADOTD, Franklin Parish, LA: Construction Cost: \$264K / Owner: LADOTD Served as DOTD Project Engineer for this Pavement Preservation PCCP joint and crack repair project in the Town of Gilbert. The project included PCCP patching, joint repairs, joint sealing, traffic control, etc. Was responsible for contract administration and to oversee LADOTD certified inspectors for sampling and testing to ensure compliance with the project's plans and specifications. Responsible for Public and Legislative Outreach throughout the project.
2007-2008	SP No. 015-07-0058: US 165, Columbia – Riverton Park Road: LADOTD, Caldwell Parish, LA: Construction Cost: \$1.28M; Owner: LADOTD Served as DOTD Project Engineer for this Pavement Preservation project on US 165. The project included patching, milling, overlay, guardrail installation, pavement striping, traffic control, etc. Was responsible for contract administration and to oversee LADOTD certified inspectors for sampling and testing to ensure compliance with the project's plans and specifications. Responsible for Public and Legislative Outreach throughout the project.
2006-2007	SP No. 041-01-0036: LA 124, Jonesville - Harrisonburg: LADOTD, Catahoula Parish, LA: Construction Cost: \$1.49M / Owner: LADOTD Served as DOTD Project Engineer for this 5.281-mile Pavement Preservation project from 4.5 miles North of Jonesville to Harrisonburg. The project included patching, milling, overlay, guardrails installation, pavement striping, traffic control, etc. Was responsible for contract administration and to oversee LADOTD certified inspectors for sampling and testing to ensure compliance with the project's plans and specifications. Responsible for Public and Legislative Outreach throughout the project.
2002	SP No. 815-05-0009: LA 907, LA 129 - LA 3203: LADOTD, Concordia and Franklin Parish, LA: Construction Cost: \$171K / Owner: LADOTD Served as DOTD Project Engineer for this Pavement Preservation Asphalt Surface Treatment project. The 14.62-mile project included patching, asphalt surface treatment, pavement striping and traffic control. Was responsible for contract administration and to oversee LADOTD certified inspectors for sampling and testing to ensure compliance with the project's plans and specifications. Responsible for Public and Legislative Outreach throughout the project.

16. Staff Experience:

Firm employed by Delta Design Professionals			
Name	Ashley N. Wright, 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 / 2018 / Civil Engineering	
Active registration number / state / expiration date		47077 / LA / 03/31/2027	
Year registered	2022	Discipline	Civil
Contract role(s) / brief description of responsibilities		Role: Road Design Engineer Responsibilities: Field investigation and road design.	
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).		
06/2018 – Present	<ul style="list-style-type: none"> Over 4 years of traffic management and materials testing with LADOTD, District 58. Served as engineer intern assistant to Traffic Engineer (PTOE) and served as Laboratory Engineer. 3 years of design with Delta Design Professionals. 		
2021	SP No. H.009585: Route LA 128: LA 573 – US 65, Tensas Parish, LA: Construction Cost: \$1.0M – 2.5M Owner: LADOTD Served as DOTD District 58 Lab Engineer for this construction project to mill and overlay an undivided roadway from LA 573 – US 65. Work consisted of milling, pavement patching, pavement widening, asphalt concrete overlay and other related work. Responsible for overseeing the District Laboratory Technicians and coordinating with the Project Engineer, Contractor and Inspectors on testing planning, sample collection, reporting, and quality assurance.		
2021-2022	SP No. H.013221: Route US 425: Gilbert – Winnsboro, Franklin Parish, LA: Construction Cost: \$2.5M – 5.0M Owner: LADOTD Served as DOTD District 58 Lab Engineer for this construction project to mill and overlay a divided roadway from Gilbert to Winnsboro. Work consisted of milling, asphalt concrete overlay, and other related work. This project was selected as a Density by Non-Destructive Technologies Pilot Project. Responsible for overseeing the District Laboratory Technicians and coordinating with the Project Engineer, Contractor and Inspectors on test planning, sample collection, reporting, and quality assurance.		
2022	SP No. H.014119: Route LA 868: LA 15 – LA 867, Franklin Parish, LA: Construction Cost: \$1.5M Owner: LADOTD Served as DOTD District 58 Lab Engineer for this construction project to stabilize base and overlay an undivided roadway from LA 15 to LA 867. Work consisted of milling, in-place cement treated subgrade, in-place cement treated base course, asphalt concrete overlay, and other related work. Responsible for overseeing the District Laboratory Technicians and coordinating with the Project Engineer, Contractor and Inspectors on test planning, sample collection, reporting, and quality assurance.		

16. Staff Experience:

Firm employed by Delta Land Surveying, LLC			
Name	Craig Stiffler		Years of relevant experience with this employer
Title	Owner/Professional Land Surveyor		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science/2009/Construction Management	
		Certificate of Land Surveying/2013	
Active registration number / state / expiration date		5161/LA/9-30-2026	
Year registered	2016	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Role: Professional Land Surveyor Responsibilities: Professional Land Surveyor duties; management of survey field crews and drafters.	
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"> 14+ years of land surveying experience 9+ years licensed as a Professional Land Surveyor in the State of Louisiana, in responsible charge of a wide range of boundary and topographic surveys. 		
06/10 – 04/15	<ul style="list-style-type: none"> 4+ years of land surveying experience with LaDOTD, managing and performing topographic surveys for road construction and drainage projects in accordance with the Location and Survey Manual. Performed 100+ surveys for Pavement Preservation projects in District 05 for LaDOTD. 		
10/2022	Town of Farmerville Sidewalk Improvements Owner: Town of Farmerville. Scope: Perform a topographic survey of the existing roadways, sidewalks, utilities and drainage structures around 6 city blocks to be used by the engineer for project design. Role: Field crew supervisor; oversaw the collection of the field data; created surface model; drafted topographic map.		
03/2025	ROM Properties Boundary/Topographic Survey Owner: ROM Properties. Scope: Perform a boundary and topographic of a 51.504 acre tract for an apartment complex development. Survey included 1 mile of frontage on LA Hwy 150 and LA Hwy 818, which required cross-sectioning the road/ditches, cross drain location, utility location and location of any additional items within the roadway. Role: Field crew supervision.		

16. Staff Experience:

Firm employed by Delta Land Surveying, LLC			
Name	Wayland Morgan		Years of relevant experience with this employer
Title	Owner/Professional Land Surveyor		6
Degree(s) / Years / Specialization		Bachelor of Science/2014/GIS	
Active registration number / state / expiration date		5229/LA/9-30-2026	
Year registered	2020	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Role: Professional Land Surveyor/UAS Pilot Responsibilities: Collect field data, supervise other members of the survey crew.	
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).		
5/2012 – Present	<ul style="list-style-type: none"> • 15+ years of aerial mapping experience • 13+ years of land surveying experience • 8+ years as a Part 107 certified drone operator • 5+ years licensed as a Professional Land Surveyor in the State of Louisiana, in responsible charge of a wide range of boundary and topographic surveys. 		
05/2021-05/2023	STA-1 West South Florida Water Management District Expansion Project Owner: South Florida Water Management District. Scope: Surveyed the 22-mile corridor monthly using aerial LiDAR for quantity calculation and cut/fill reports.		
07/2020 – Present	Performed 50+ topographic surveys using aerial LiDAR on sites ranging from 640-2000 acres.		
10/2022	Town of Farmerville Sidewalk Improvements Owner: Town of Farmerville. Scope: Perform a topographic survey of the existing roadways, sidewalks, utilities and drainage structures around 6 city blocks to be used by the engineer for project design. Role: Field crew supervisor; oversaw the collection of the field data		
08/2024	Interstate 20 Service Road Expansion Owner: City of Ruston Scope: Perform a topographic survey of a 2.5 mile corridor for roadway expansion. Role: UAS pilot, collected data, established control network to increase accuracy of data collected.		
03/2025	ROM Properties Boundary/Topographic Survey Owner: ROM Properties. Scope: Perform a boundary and topographic of a 51.504 acre tract for an apartment complex development. Survey included 1 mile of frontage on LA Hwy 150 and LA Hwy 818, which required cross-sectioning the road/ditches, cross drain location, utility location and location of any additional items within the roadway. Role: Field crew supervision, data collection, UAS pilot.		

16. Staff Experience:

Firm employed by Delta Land Surveying, LLC			
Name	Joshua Stewart		Years of relevant experience with this employer
Title	Owner/Professional Land Surveyor		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization	Bachelor of Science/2005/Environmental Science		
Active registration number / state / expiration date	5178/LA/3-31-2027		
Year registered	2016	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Role: Professional Land Surveyor/Party Chief Responsibilities: Collect field data, supervise other members of the survey crew.	
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).		
5/2005 – Present	<ul style="list-style-type: none"> • 20+ years of land surveying experience • 8+ years licensed as a Professional Land Surveyor in the State of Louisiana, in responsible charge of a wide range of boundary and topographic surveys. 		
Various	<ul style="list-style-type: none"> • 50+ off-system bridge replacement layout surveys within District 05 and District 58 		

16. Staff Experience:

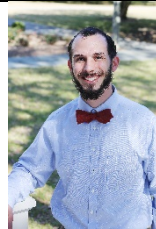
Firm employed by		Civil Design & Construction, Inc. (CD&C)	
Name	Chris Ballard, PLS	Years of relevant experience with this employer	9
Title	Survey Manager	Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization		BS / 2004 / Biological Science / Southeastern LA University	
Active registration number / state / expiration date		5033 / Louisiana / September 30, 2026	
Year registered	2010	Discipline	Land Surveyor
Contract role(s) / brief description of responsibilities.		Mr. Ballard serves as the Survey Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Ballard has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning.	
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 specified in the applicable MPR(s).		
12/23 – 05/23	H.012618 LA 347 Drainage Improvements: Mr. Ballard is the Survey Manager for this project. Topographic Survey for just over 2 miles of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.		
02/23 – 12/23	H.012027.5 - I-20 UPPR: Mr. Ballard is the Survey Manager for this project. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices.		
09/18-01/20	H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA: Mr. Ballard is the Survey Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.		
04/17-07/17	H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA: Mr. Ballard is the Survey Manager for this project which included a complete topographic survey, utility coordination, channel cross sections, and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.		
02/19-09/19	Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA: Mr. Ballard is the Survey Manager for this project for East Feliciana Parish Police Jury. It includes the replacement of 2 bridges which were damaged from flooding and the repairs to many rural roadways throughout the parish. These projects are being funded thru FEMA and all documentation has to be in accordance with FEMA's policies and procedures.		



01/17-12/17	East Baton Rouge Parish Bridges, East Baton Rouge Parish, LA: In 2017, CD&C performed topographic surveys for at least 4 Bridge Replacement Projects throughout East Baton Rouge Parish. Mr. Ballard served as Survey Manager on each of these projects which included cross-sectioning and tracing the channel at each location. These included bridges over Dawson Creek, Claycut Bayou, Copper Mill Bayou, and Cypress Bayou.
10/16-11/16	H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA: Mr. Ballard served as the Project Manager for this Project. Among the duties performed for the project were review of the crew work conditions, review & processing of the survey data, verification, and review of final submittal. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge, 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete the topographic survey. Due to the nature of the project being an Emergency Bridge replacement all staff worked on this project non-stop until field work was completed in less than 3 weeks.
09/17-09/17	H.012650.5-1 District 62 Bridges, Livingston and Tangipahoa Parishes, LA: Mr. Ballard is the Survey Manager for this project which included 5 bridge sites in District 62. In addition to all of the existing data for the bridge and roadway at each site, each channel was cross-sectioned both upstream and downstream of the bridge. These included bridges over the US 190 Bridge over Gray's creek, 2 bridges on LA 442 both crossing East Hog Branch, LA 1063 over the Natalbany River, and US 51 over Ponchatoula Creek. Several of these bridges including the US190 one was surveyed utilizing 3D Terrestrial Scanning.
10/15 - 12/18	H.003184.5 I-10 Texas State Line – East of Coone Gully, Calcasieu Parish, LA: Mr. Ballard served as the Survey Project Manager on this project which is a 6-lane widening of I-10. Duties performed on this project included the review of the survey information from crew, verification of project delivery schedule, processing of data and final review of submittal of project. 3D Terrestrial Scanning was used in conjunction with traditional means and methods for the completion of this project.
01/16 - 08/16	H.005733.5 US 190 Superstreet, St. Tammany Parish, LA: Mr. Ballard served as the Survey Project Manager on this project. CD&C provided a complete topo survey & drainage map along with utility coordination for the project. Project duties included processing of data, review of field notes and weeklies, & performing final punch list. This project also included work in the Abita River utilized 3D Terrestrial Scanning for the main route.
10/15 - 01/16	H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA: Mr. Ballard served as the Survey Project Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new sidewalk.
06/11 - 09/13	H.002372 LA 42 Widening and Improvements, Ascension Parish, LA: Mr. Ballard worked as a PLS on this project which included boundary and topography, establishing the existing ROW and acquisition of additional ROW.
07/17 - 12/18	H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA: Mr. Ballard served as the Survey Project Manager on this project that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall within the survey limits. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning.


16. Staff Experience:

Firm employed by		Civil Design & Construction, Inc. (CD&C)		
Name	Madison Mills, PLS		Years of relevant experience with this employer	4
Title	Survey Project Manager		Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization			BS / 2016 / Civil Engineering	
Active registration number / state / expiration date			5293 / Louisiana / March 31, 2027	
Year registered	11/15/2022	Discipline	Professional Land Surveyor	
Contract role(s) / brief description of responsibilities.			Mr. Mills joined CD&C in 2021 as a Land Surveying Intern and has recently been licensed as a Professional Land Surveyor. He serves as a Survey Technician and assistant PM for CD&C working to manage field crews, process field crew data, and finalize deliverables.	
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 specified in the applicable MPR(s).			
12/23 – 05/23	H.012618 LA 347 Drainage Improvements: Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 2 miles of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.			
09/23 – 12/23	H.015619.5 LA 106: Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 8 miles of roadway. Traditional means and methods was used to collect limited topographic data for this overlay and roadway rehabilitation project. Project was completed to LADOTD Location and Survey Standards and practices.			
05/23 – 08/23	H.015056 - LA 685: Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 4,503 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.			
05/23 – 08/23	H.015058 - LA 14 Business: Mr. Mills is the Survey Project Manager on this project. Topographic Survey for just over 12,300 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.			
02/23 – 12/23	H.012027.5 I-20 UPPR: Mr. Mills is the Survey Project Manager on this project. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices.			
08/22 – 02/23	4400017091 Louisiana Watershed Initiative Region 5 – Task Order 3: Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.			
01/22 – 11/22	4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2: Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.			
09/21 – 03/22	H.014747 Southern University Ravine Protection, East Baton Rouge Parish: Mr. Mills served as a Survey Technician for this project. CD&C as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University. The topographic data for this project was collected both traditionally and utilizing 3D Scanning.			




08/21 – On-Going	H.011833.5 St. Mary Street Sidewalks; Scott, LA: Mr. Mills served as a Survey Tech for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	H.010960.5-2 Roundabouts at LA 182, Lafayette, LA: Mr. Mills served as a Survey Tech for the project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
02/21 – 07/22	H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek: Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
02/21 – 07/22	H.013955 LA 961 Bridge at Sandy Creek, West Feliciana Parish, LA: Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
02/21 – 07/22	H.013956 LA 961 Bridge at Beamon Rd. Bayou Maringouin, Pointe Coupee Parish, LA: Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
07/21 – 11/21	H.009290.5 Safe Routes to Schools – LSU Sidewalk Improvement near LSU Lab School, Baton Rouge, LA: Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.
02/21 – 05/21	H.010108 Safe Routes to Schools – Independence Sidewalks, Baton Rouge, LA: Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.
07/21 – 12/21	H.0014560.5 LA 94 Vermillion River, St. Martin Parish, LA: Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.

16. Staff Experience:


Firm employed by	Civil Design & Construction, Inc. (CD&C)			
Name	Chancey Cothren	Years of relevant experience with this employer	1	
Title	Land Survey Intern	Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization		BS / 2023 / Geomatics		
Active registration number / state / expiration date		776 / Louisiana / March 31, 2006		
Year registered	2023	Discipline	Land Surveying Intern	
Contract role(s) / brief description of responsibilities		Mr. Cothren is a Land Surveying Intern. He will help manage field crews, process field crew data, and finalize deliverables.		
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 specified in the applicable MPR(s).			
6/23 – 8/23	LA-22: Mr. Cothren was on the survey crew that performed the topographic survey along LA-22. This survey was about four miles long and the data was collected using laser scanning, UAV lidar, and traditional survey methods. Project was completed to LADOTD Location and Survey Standards and practices.			
8/23 – 10/23	I-10 / LA-44: Mr. Cothren was on the survey crew that performed the topographic survey. The survey was just over two miles along I-10 and two miles along LA – 44. Data was collected using lidar and traditional survey methods. Project was completed to LADOTD Location and Survey Standards and practices.			
11/23 – 12/23	Gause Blvd / EI-10 Service Road: Mr. Cothren was on the survey crew that performed the topographic survey. The survey was just over two miles along EI-10 Service Rd. This project was completed using GPS and Total Station. Project was completed to LADOTD Location and Survey Standards and practices.			
8/22-9/22	USACE: Mississippi river hydrographic survey: Mr. Cothren was on the survey crew that performed hydrographic surveys to locate any submerged obstructions in portions of the river. This project was completed using magnetometers and USV's.			
8/23	USACE: Mississippi river revetment restoration: Mr. Cothren was on the survey crew that performed the surveys needed to locate how much dirt needed to be removed when shaping the levee for the placement of the new revetments. This Project was completed to Louisiana Survey Standards and practices.			

16. Staff Experience:

Firm employed by		Civil Design & Construction, Inc. (CD&C)		
Name	Clarence J. Goodspeed	Years of relevant experience with this employer	3	
Title	SUE Manager	Years of relevant experience with other employer(s)	30	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities * Dates not included as work was done at previous Employer		Mr. Goodspeed has 30 years' experience in underground utilities. Mr. Goodspeed has been involved in almost every aspect of underground utilities and His knowledge of reading multiple utility companies prints and understand how their systems are installed makes him a great asset to managing CD&C Sue department.		
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 time specified in the applicable MPR(s).			
03/23 – On-Going	MSY Campus Wide Sewer Location: Mr. Goodspeed serves as the firms SUE PM for the project. CD&C is performing a combination of both a QL-B and QL-A for the Louis Armstrong Airport campus to locate it's sanitary sewer lines. This project encompasses the entire campus. All sewer manholes and gravity lines as well as sewer forcemains are to be located. Verification of pipe size and material is also required. CD&C is providing all SUE appropriate reports and data for this project.			
01/24 – 03/24	RN Nuccio Rd SUE: Mr. Goodspeed served as SUE Manager for the firm's SUE work on this bridge replacement project. CD&C, Inc. provided SUE utility locations with SUE QL- B utility designation. CD&C, Inc. provided all SUE reports and data.			
04/24 – 05/24	BRMA FAA Boring: Mr. Goodspeed served as SUE Manager for the firm's SUE work on this project. This project included the coordination of SUE QL-B utility information and boundary survey of over 4 acres. Survey crews collected data to incorporate for the final deliverable which included boundary plat, and SUE reports, data, and plans.			
03/24 – On-Going	MSY East Apron Expansion: Mr. Goodspeed served as SUE Manager for the firm's SUE work on this project. This project includes the coordination of SUE QL-B utility information and topographic survey for over 7 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.			
03/24 – 05/24	MSY Employee Parking: Mr. Goodspeed served as SUE Manager for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for approximately 0.5 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.			
02/24 – 05/24	BRMA Radar Decomp: Mr. Goodspeed served as SUE Manager for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 2 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.			

12/23 – 05/24	BRMA Taxiway F Reconstruction: Mr. Goodspeed served as SUE Manager for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 25 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
05/23 – 06/23	West Broussard @ Duhon SUE: Mr. Goodspeed served as SUE Manager for the firm's SUE work on for this project. CD&C, Inc. provided SUE QL-A utility designation for approximately 2,000' of roadway. CD&C, Inc. provided all SUE reports and data.
09/22 – 01/23	BRMA Northwest Aviation Development: Mr. Goodspeed serves as the firms SUE PM for the project. He is overseeing and working with CD&C SUE personnel to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with standards set forth by City/Parish government for East Baton Rouge.
03/22 – 10/23	H.011833.5 St. Mary Street Sidewalks; Scott, LA: Mr. Goodspeed serves as the firms SUE PM for the project. He is overseeing and working with CD&C SUE personnel to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	H.010960.5-2 Roundabouts at LA 182, Lafayette, LA: Mr. Goodspeed serves as the firms SUE PM for the project. He is overseeing and working with CD&C SUE personnel to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
07/23 – On-Going	College Drive (MoveBR): Mr. Goodspeed serves as the firm's SUE Manager for the project. This project includes full topography and utility coordination for approximately 20 acres. He worked in the field to coordinate the collection of all the utility information and location for survey crews to incorporate utility information to a QL-D to QL-B level accuracy. An official SUE submittal was not required for this project. The final submittal is following standards set forth by the City/Parish government for EBR.
10/23 – On-Going	HMGP – FEMA Groom Road Brushy Bayou: Mr. Goodspeed served as the firm's SUE Manager for the project. This project included full SUE submittal for approximately 1 mile of roadway. He worked in the field to coordinate the collection of all the utility information and location for survey crews to collect data and incorporate it for the submittal of QL-B.
05/23 – 06-23	Burbank at Pelican Lakes: Mr. Goodspeed served as the firm's SUE Manager on this intersection improvement project in Baton Rouge. Location of all subsurface utilities were provided to QL-C.
01/23 – 07/23	Pride Port Hudson Road: Mr. Goodspeed served as the firm's SUE Manager for this project working to provide Utility Coordination and Utility mapping. Mr. Goodspeed worked with the local utility companies to locate their assets as much as possible. In instances where the utilities did not locate, Mr. Goodspeed secured as-built/record drawings and directed SUE field crews for the marking of those particular assets so that a topography survey could be completed. Mr. Goodspeed also served as a QC Check for all the utilities located by the survey crews and SUE Crew.

16. Staff Experience:

Firm employed by Civil Design & Construction, Inc. (CD&C)					
Name	Tracey Smith		Years of relevant experience with this employer	2	
Title	Utility Coordinator		Years of relevant experience with other employer(s)	24	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date					
Year registered		Discipline			
Contract role(s) / brief description of responsibilities * Dates not included as work was done at previous Employer			Mr. Smith has over 24 years' experience in underground utilities. Mr. Smith has worked in the gas field for 3 years and spent 19 years performing various underground utility locations and serving as a supervisor for a number of locate technicians.		
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 time specified in the applicable MPR(s).				
05/23 – 08/23	H.015056 - LA 685: Mr. Smith served as the SUE Field Chief for this project. Topographic Survey for just over 4,503 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.				
05/23 – 08/23	H.015058 - LA 14 Business: Mr. Smith served as the SUE Field Chief for this project. Topographic Survey for just over 12,300 feet of roadway. Both traditional means and methods and 3D Scanning were used to collect topographic data for this roadway improvement project. Project was completed to LADOTD Location and Survey Standards and practices.				
03/23 – On-Going	MSY Campus Wide Sewer Location: Mr. Smith serves as the SUE field chief for the project. CD&C is performing a combination of both a QL-B and QL-A for the Louis Armstrong Airport campus to locate its sanitary sewer lines. This project encompasses the entire campus. All sewer manholes and gravity lines as well as sewer forcemains are to be located. Verification of pipe size and material is also required. CD&C is providing all SUE appropriate reports and data for this project.				
01/24 – 03/24	RN Nuccio Rd SUE: Mr. Smith served as the SUE Field Chief for the firm's SUE work on this bridge replacement project. CD&C, Inc. provided SUE utility locations with SUE QL- B utility designation. CD&C, Inc. provided all SUE reports and data.				
04/24 – 05/24	BRMA FAA Boring: Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included the coordination of SUE QL-B utility information and boundary survey of over 4 acres. Survey crews collected data to incorporate for the final deliverable which included boundary plat, and SUE reports, data, and plans.				
03/24 – On-Going	MSY East Apron Expansion: Mr. Smith serves as the SUE Field Chief for the firm's SUE work on this project. This project includes the coordination of SUE QL-B utility information and topographic survey for over 7 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.				
03/24 – 05/24	MSY Employee Parking: Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for approximately 0.5 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.				

02/24 – 05/24	BRMA Radar Decomp: Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 2 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
12/23 – 05/24	BRMA Taxiway F Reconstruction: Mr. Smith served as the SUE Field Chief for the firm's SUE work on this project. This project included SUE QL- B utility information and topographic survey for over 25 acres. CD&C's SUE crews marked underground utilities which were picked up by our survey crews to incorporate for the final deliverable. Final deliverables for this project will include topographic survey, as well as SUE reports, data, and plans.
09/22 – 01/23	BRMA Northwest Aviation Development: Mr. Smith served as the SUE Field Chief for the project. He is working in the field to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with standards set forth by City/Parish government for East Baton Rouge.
03/22 – 10/23	H.011833.5 St. Mary Street Sidewalks; Scott, LA: Mr. Smith served as the firm's SUE Field Chief for the project. He is working in the field to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	H.010960.5-2 Roundabouts at LA 182, Lafayette, LA: Mr. Smith served as the SUE Field Chief for the project. He is working in the field to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
07/23 – On-Going	College Drive (MoveBR): Mr. Smith serves as the SUE Field Chief for the project. This project included full topography and utility coordination for approximately 20 acres. He worked in the field to coordinate the collection of all the utility information and location for survey crews to incorporate utility information to a QLD to QLB level accuracy. An official SUE submittal was not required for this project. The final submittal was following standards set forth by the City/Parish government for EBR.
10/23 – On-Going	HMGP – FEMA Groom Road Brushy Bayou: Mr. Smith serves as the SUE Field Chief for the project. This project included full SUE submittal for approximately 1 mile of roadway. He worked in the field to coordinate the collection of all the utility information and location for survey crews to collect data and incorporate it for the submittal of QLB.
05/23 – 06-23	Burbank at Pelican Lakes: Mr. Smith served as the SUE Field Chief on this intersection improvement project in Baton Rouge. Location of all subsurface utilities were provided to QLD.
01/23 – 07/23	Pride Port Hudson Road: Mr. Smith served as the SUE Field Chief for this project. Mr. Smith worked with the local utility companies. In instances where the utilities did not locate, Mr. Smith assisted in securing as-built/record drawings. Mr. Smith marked those assets so that a complete topography survey could be completed.

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road, Traffic	
Project name	S Larriviere Rd: LA 92 – Chemin Metairie (CE&I)				Firm responsibility (prime or sub?)	Prime
Project number	H.012867.6	Owner’s name	City of Youngsville (LaDOTD LPA project)			
Project location	Youngsville, Louisiana			Owner’s Project Manager	Terry Bourque	
Owner’s address, phone, email	201 Iberia St, Youngsville, LA 70592 / (337) 856-4181 / terrybourque@youngsvillela.gov					
Services commenced by this firm (mm/yy)	04/25	Total consultant contract cost (\$1,000’s)				673
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000’s)				673

The S Larriviere Rd: LA 92 – Chemin Metairie project will reconstruct approximately 1.2 miles of the existing asphalt road and roadside ditches, including new base course, asphalt pavement, concrete curb and gutter, subsurface drainage system (15" RCP to 48" RCP, manholes, and catch basins), pavement markings, signage, sidewalks, driveways, and sewer house connection adjustments. The project will also replace an existing bridge and RCP culvert with three 10'x9' precast concrete box culverts and two 8'x8' precast concrete box culverts, respectively, as well as cast-in-place concrete headwalls and flexible revetments. Horizon is currently providing construction engineering and inspection services for the project.

Firm Members Involved: Brett Liuzza, Ben Bartlett, John Karlin, Jeff Puissegur, and Keith Schulz

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road, Traffic	
Project name	Fortune Road Pavement Preservation (CE&I)				Firm responsibility (prime or sub?)	Prime
Project number	H.012868.6	Owner's name	City of Youngsville (LaDOTD LPA project)			
Project location	Youngsville, Louisiana			Owner's Project Manager	Terry Bourque	
Owner's address, phone, email	201 Iberia St, Youngsville, LA 70592 / (337) 856-4181 / terrybourque@youngsvillela.gov					
Services commenced by this firm (mm/yy)	04/25	Total consultant contract cost (\$1,000's)				93
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)				93

The Fortune Road Pavement Preservation project will mill, patch, and overlay approximately 1.1 miles of the existing asphalt road and install new pavement markings. Horizon is currently providing construction engineering and inspection services for the project. The project is anticipated to be completed in June 2025.

Firm Members Involved: Brett Liuzza, Ben Bartlett, John Karlin, Jeff Puissegur, and Keith Schulz

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road, Traffic	
Project name	St. Bernard Pedestrian Improvements (CE&I)				Firm responsibility (prime or sub?)	Prime
Project number	H.014049.6	Owner's name	LaDOTD			
Project location	Chalmette, Louisiana			Owner's Project Manager	Justin Guilbeau	
Owner's address, phone, email		14101 Old Gentilly Rd, New Orleans, LA 70129 / (504) 253-6102 / justin.guilbeau@la.gov				
Services commenced by this firm (mm/yy)		03/25	Total consultant contract cost (\$1,000's)			106
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			106

The St. Bernard Pedestrian Improvements project will improve pedestrian facilities along LA 47 (Paris Rd.) and LA 39 (E. Judge Perez Dr.) by installing new rectangular rapid-flashing beacons, signage, high visibility crosswalks, pavement markings, a pedestrian refuge island, ADA compliant curb ramps, sidewalks, handrails, and other associated features. Horizon is currently providing construction engineering and inspection services for the project. The project is anticipated to be completed in July 2025.

Firm Members Involved: Brett Liuzza, Ben Bartlett, John Karlin, Jeff Puissegur, and Keith Schulz

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road, Traffic	
Project name	Zellwood Station Phase 3 Traffic Study and ICE				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)			78
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			78

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.

Horizon completed an Intersection Control Evaluation (ICE) for FDOT to evaluate the installation of a new signalized intersection on US 441 and is currently awaiting FDOT's review.

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

17. Firm Experience:

Firm name	Horizon Engineering, LLC		Discipline(s)*		Road, Traffic	
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	Delta Design Professionals, LLC	Discipline(s)*	Road
Project name	Pilots for Patients – Architectural Design of a 12,250 sq. ft. aircraft hanger and office/waiting area/restrooms, kitchen and site development.	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Pilots for Patients
Project location	Monroe, LA Airport	Owner's Project Manager	Deryle Shipman
Owner's address, phone, email	3127 Mercedes Dr, Monroe, LA 71201 / 318-282-3302 / jds.shipman@yahoo.com		
Services commenced by this firm (mm/yy)	11/2024	Total consultant contract cost (\$1,000's)	58.6
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)	32.5

Delta Design Professionals, LLC (DDP) performed ADA Compliant Life Safety design of a 12,500 sq. ft. aircraft hanger with office, restrooms, kitchen, and waiting area for patients awaiting flights. DDP performed foundation design, site development including reinforced concrete pavement design and performed hydraulic analysis with stormwater detention.

Administered sub-contract for MEPs and Geotechnical Services.

Firm Members Involved: Ken Free and Ashley Wright

17. Firm Experience:

Firm name	Delta Design Professionals, LLC	Discipline(s)*	Road
Project name	Tallulah Academy – Architectural Design of a 15,000 sq. ft Gymnasium with storm shelter and a 15,000 sq. ft. Educational Building.	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Tallulah Academy – Delta Christian
Project location	Tallulah, LA	Owner's Project Manager	Walley Lopez
Owner's address, phone, email	700 Wood St, Tallulah, LA 71282 / 318-341-4090		
Services commenced by this firm (mm/yy)	08/2023	Total consultant contract cost (\$1,000's)	252.7
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)	153.7

Delta Design Professionals, LLC (DDP) performed ADA Compliant Life Safety design and obtained Fire Marshal approval as the POR for a 15,000 sq. ft. gymnasium with storm shelter and a 15,000 sq. ft. educational building. DDP was responsible for contract administration, foundation design, site development including reinforced concrete pavement design.

Administered sub-contract for Topographical and Boundary Survey, MEPs and Geotechnical Services.

Firm Members Involved: Ken Free and Ashley Wright

17. Firm Experience:

Firm name	Delta Design Professionals, LLC	Discipline(s)*	Road
Project name	Johnson Advanced Living	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Paul Johnson
Project location	New Mineral Springs Rd, Calhoun, LA 71225	Owner's Project Manager	Paul Johnson
Owner's address, phone, email	P.O. Box 41, Calhoun, LA 71225 / 318-509-9308 / pauljohnson40@yahoo.com		
Services commenced by this firm (mm/yy)	07/2023	Total consultant contract cost (\$1,000's)	24.7
Services completed by this firm (mm/yy)	04/2024	Cost of consultant services provided by this firm (\$1,000's)	17

Delta Design Professionals, LLC (DDP) performed the site development on a 9-acre subdivision located on New Mineral Springs Rd, Calhoun LA. The work consisted of grading, drainage analysis, sanitary sewer discharge, erosion control measures, approval through the LA Department of Health and the Ouachita Pariah Police Jury.

Firm Members Involved: Ken Free and Ashley Wright

17. Firm Experience:

Firm name	Delta Land Surveying, LLC	Discipline(s)*	Survey
Project name	Town of Farmerville Sidewalk Improvements	Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	Town of Farmerville, LA
Project location	Farmerville, LA	Owner's Project Manager	MMLH
Owner's address, phone, email	2313 Common Ct, Suite 2, Ruston, LA 71270, 318-255-7236		
Services commenced by this firm (mm/yy)	09/22	Total consultant contract cost (\$1,000's)	NA
Services completed by this firm (mm/yy)	10/22	Cost of consultant services provided by this firm (\$1,000's)	5

Delta Land Surveying, LLC was hired to perform a topographic survey of the roadways and sidewalks of a six city blocks in Farmerville, LA. In addition to the roadways and sidewalks, the survey included location of existing signs, drainage structures, light or power poles and visible utilities (manholes, water meters, gas meters). A surface was created and delivered to MMLH for design.

Staff involved: Craig Stiffler, Wayland Morgan, Deacon Haacks

17. Firm Experience:

Firm name	Delta Land Surveying, LLC	Discipline(s)*	Survey
Project name	Interstate 20 Service Road Expansion	Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	Riley Company
Project location	Ruston, LA	Owner's Project Manager	Frank Miller
Owner's address, phone, email	112 E. Mississippi Ave, Ruston, LA 71270, 318-251-0239		
Services commenced by this firm (mm/yy)	08/24	Total consultant contract cost (\$1,000's)	NA
Services completed by this firm (mm/yy)	08/24	Cost of consultant services provided by this firm (\$1,000's)	5

Delta Land Surveying, LLC was hired to perform a topographic survey for an expansion to the Service Road along Interstate 20 in Ruston, LA. We utilized aerial LiDAR in order to increase efficiency and reduce our exposure to vehicles along I-20.

Staff involved: Wayland Morgan

17. Firm Experience:

Firm name	Delta Land Surveying, LLC	Discipline(s)*	Survey
Project name	ROM Properties Boundary/Topo Survey	Firm responsibility (prime or sub?)	Sub
Project number		Owner's name	ROM Properties
Project location	Ruston, LA	Owner's Project Manager	Hub Braud
Owner's address, phone, email	949-391-5444		
Services commenced by this firm (mm/yy)	03/25	Total consultant contract cost (\$1,000's)	NA
Services completed by this firm (mm/yy)	03/25	Cost of consultant services provided by this firm (\$1,000's)	8

Delta Land Surveying, LLC was hired to perform a boundary and topographic survey of a 51.504 acre tract near Ruston, LA. The project had 1 mile of road frontage on State Highways. We performed a full topographic survey of the roadway and ditches, cross drains/culverts and utilities using conventional and aerial LiDAR methods.

Staff involved: Wayland Morgan, Deacon Haacks, Craig Stiffler

17. Firm Experience:

Firm name	Civil Design & Construction, Inc.	Discipline(s)*	Survey
Project name	Verot School Road	Firm responsibility (prime or sub?)	Sub
Project number	H.011235	Owner's name	LADOTD
Project location	Lafayette, LA	Owner's Project Manager	Thomas Gattle (Huval & Assoc.)
Owner's address, phone, email	922 W. Point Des Mouton Rd., Lafayette, LA 70507/337-234-3798/tgattle@huvalassoc.com		
Services commenced by this firm (mm/yy)	08/16	Total consultant contract cost (\$1,000's)	N/A
Services completed by this firm (mm/yy)	On-Going	Cost of consultant services provided by this firm (\$1,000's)	\$435

Project Description: This project is located in Lafayette Parish between Lafayette Regional Airport and Broussard, LA. The project is for the proposed widening of US 90/I-49 South and realignment of Verot School Road. A topographic survey was performed along the entire proposed route as well as an existing drainage map. This included a complete topographic survey of all utilities with depths, drainage and finished floor elevations of all buildings that fell within the designated survey limits. Also, CD&C was required to coordinate with the topographic survey of the adjacent I-49 Connector project and include required portions of the I-49 Connector project with the survey of this project.



CD&C's Role: CD&C performed a complete topographic survey of the project site by using **3D Terrestrial Scanning in conjunction with traditional means to complete the survey. Control was set for the scanning throughout the project limits.** Coordination with Cardno, Inc. (Team member) was necessary for the location of all utilities in the project area. CD&C also coordinated with all the property owners for access to the properties and also meet with safety advisors for the industrial business that were impacted. The survey included coordination with the ongoing I-49 Connector project and merging of that survey to the CD&C survey in order to make a complete project for the area. CD&C also researched and compiled an existing right of way linework for the prime consultant to use for exhibits for the project. In order to complete the survey CD&C also had to coordinate with BNSF railroad for access to BNSF's rail.

Members Involved: Christopher Ballard, PLS Survey PM; Madison Mills, PLS, Surveyor; Jacob Stoehr, Party Chief; Scott Benton, 3D Scan Technician

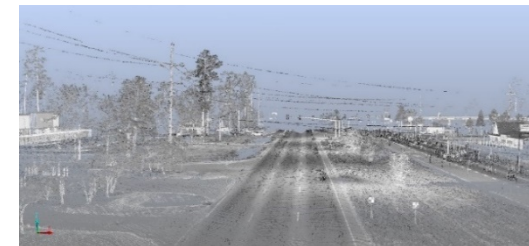
Performed in LA: 100%

17. Firm Experience:

Firm name	Civil Design & Construction, Inc.	Discipline(s)*	Survey
Project name	US 190 Superstreet	Firm responsibility (prime or sub?)	Sub
Project number	H.005733.5	Owner's name	LADOTD
Project location	St. Tammany Parish, LA	Owner's Project Manager	Josh Harrouch
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802/225-379-123/Joshua.harrouch@la.gov		
Services commenced by this firm (mm/yy)	01/16	Total consultant contract cost (\$1,000's)	N/A
Services completed by this firm (mm/yy)	08/16	Cost of consultant services provided by this firm (\$1,000's)	\$207

Project Description: This project was the topographic survey of US 190 in Covington. The survey limits were along a portion of the existing routes of US 190, Holiday Square Frontage Road, US 190 Service Road, Holiday Blvd., Holycrest Plaza Driveway, Louis Prima Drive, Park Place Drive, Lake Drive, Crestwood Blvd., 9th Avenue, Three Rivers Road, River Highlands Blvd., Harrison Ave., Maple Ridge Ave., North 12th Street, Sunshine Ave., North 6th Street, Riverside Drive, and North 2nd Street and is approximately 2.9 miles in length.

CD&C's Role: CD&C's role was to provide the complete topographic survey and drainage map for this project including all utility coordination. The survey begins at the intersection of US 190 and Holiday Square Frontage Road. From this point, the survey proceeded in a northerly direction along US 190 for approximately 2.9 miles to a point that is 700 feet South of Intersection of US 190 and E. Boston St. in Covington, LA. The width of the survey and DTM extended to the Western Edge of Pavement to Eastern Edge of Pavement along US 190 and tied in with the existing topographic features picked up on the previous survey done under H.011137.5 and H.011152.5 (Interstate 12 Survey). This also included cross sectioning a portion of the Abita River in the project area. All topographic survey elements were performed in accordance with the latest LADOTD Location and Survey Manual and conformed to the latest standard practices/procedures. All deliverables were in LADOTD required formats. 3D Terrestrial Scanning was used in conjunction with traditional means and methods to complete this project.



Members Involved: Christopher Ballard, PLS Survey PM; Jacob Stoeck, Party Chief;

Performed in LA: 100%

17. Firm Experience:

Firm name	Civil Design & Construction, Inc.	Discipline(s)*	Survey
Project name	I-20 UPRR Overpass	Firm responsibility (prime or sub?)	Sub
Project number	H.012027.5	Owner's name	LADOTD
Project location	Shreveport, LA	Owner's Project Manager	Thomas Gattle (Huval & Assoc.)
Owner's address, phone, email	922 W. Point Des Mouton Rd., Lafayette, LA 705007 / 337-234-3798 / tgattle@tgattle@huvalassoc.com		
Services commenced by this firm (mm/yy)	01/23	Total consultant contract cost (\$1,000's)	N/A
Services completed by this firm (mm/yy)	12/23	Cost of consultant services provided by this firm (\$1,000's)	281

Project Description: CD&C, Inc. was a sub-consultant on this project. CD&C, Inc. performed a full topographic beginning and ending 5000 feet beyond either end of the approach slab of the I-20 eastbound and westbound bridge structure. Terrestrial Laser Scanning was used on all hard surface areas such as Parking Lots, Roadway and Bridge structures, and Union Pacific Railroad rails. The survey total distance was 2.03 miles with a width of approximately 350 feet. This included 1 mile along Highway 79 with a width of 300 feet.

CD&C's Role: CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. Final submittal was in accordance with latest LADOTD Location and Survey standards.



Members Involved: CD&C employees involved in the project included Christopher Ballard, PLS, Survey PM; Madison Mills, PLS, Surveyor; Clarence J. Goodspeed, SUE Manager; Scott Benton, 3D Scanning Tech; Alex Wells, Party Chief; Jason Stoehr, Party Chief; Drennon Humphreys, Party Chief



Performed in LA: 100%

18. Approach and Methodology:

IDIQ Contract 4400032130 for pavement preservation will rehabilitate roads throughout the state (primarily in District 58) by replacing deteriorated Portland cement concrete pavement (PCCP) panels and milling, patching, and overlaying deteriorated asphalt pavement. This IDIQ contract may also include repair, replacement, or installation of curb ramps, sidewalks, and other pedestrian facilities to achieve compliance with the Americans with Disabilities Act (ADA); repair, replacement, or adjustment of existing catch basins, manholes, and other drainage structures; and installation or implementation of intelligent transportation systems (ITS) and operational improvements per DOTD's transportation systems management and operations (TSMO) strategies. These infrastructure improvements will have a positive impact on the community by improving pedestrian, bicyclist, and motorist safety and access to residential, commercial, and industrial areas. Horizon Engineering, LLC (Horizon) has identified the following challenges that will need to be addressed during design to deliver successful projects.

1. CONSTRUCTABILITY

Horizon's personnel have recently provided CE&I services for multiple DOTD and DOTD LPA PCCP panel replacement and asphalt mill/overlay projects and are familiar with their associated challenges. We understand the importance of preparing Plans that are clear, concise, correct, complete, consistent, and constructable to facilitate efficient construction that minimizes disruptions to the public. We will identify and address potential constructability issues during the design phase to reduce the potential for costly change orders during construction and ensure that projects remain

within budget. Common issues include excessive curb ramp, driveway, and sidewalk slopes affecting ADA compliance, failure to consider obstructions and other potential conflicts during the design phase, and poor sequencing of construction.

2. EFFICIENCY

Minimal design details are necessary for pavement preservation project due to the extensive use of standard plans, tables, simple plans/aerials (for PCCP panel replacement projects), and typical sections (for asphalt mill/overlay projects). The primary goal when preparing pavement preservation contract documents is to clearly identify the work locations and provide accurate estimated quantities as efficiently as possible and without including extraneous information that the contractor does not need. Horizon will staff each task order efficiently and ensure that all time worked has a specific purpose that promotes DOTD's interests, such as public and project site safety, quality of the work, and adherence to the schedule and budget. By only providing the information that is absolutely necessary for the contractor to construct the project, design costs will be significantly reduced, the schedule will be streamlined, and the contract documents will be simplified, which will lead to the contractor having a better understanding of the scope of work.

Detailed topographic surveys are often unnecessary for basic pavement preservation projects or only necessary for limited portions, such as the design of ADA compliant curb ramps. To provide maximum value to DOTD, our Team will utilize advanced measurement technologies when possible, such as drones to collect LiDAR

data and aerial photogrammetry, for a fraction of the cost and time of traditional methods. Additionally, our Team includes two surveying firms, each with many survey crews and advanced measurement equipment, to ensure that surveys can be quickly completed regardless of the number of concurrent task orders.

Our Team includes multiple local firms, former DOTD District 58 and District 05 personnel, and the former District 58 Administrator, James "Ken" Free, PE, who will provide unparalleled insight into the needs of the district and seamless coordination with the district's staff. Our Team's local presence will improve the efficiency and quality of projects.

3. BUDGET

The contract documents must include accurate estimated quantities and work locations to facilitate competitive, accurate bids by contractors and avoid cost overruns. We will obtain existing PCCP or asphalt pavement cores where as-builts for the original road construction are unavailable or unreliable to provide better estimates of the actual pavement thickness. Some portions of roads may be significantly deteriorated and need to be fully reconstructed. For these locations, PCCP panel replacement locations, and asphalt mill/overlay locations, we will prepare accurate estimated quantities and opinions of probable construction cost to help DOTD determine if adjustments to the construction scope of work prior to bidding are necessary to accommodate the budget.

4. PROPERTY ACCESS AND TRAFFIC

Typical pavement preservation projects affect many commercial and residential properties, including adjacent businesses and homes. As

such, a detailed and well-designed Sequence of Construction and Traffic Control Plan (TCP) (possibly including night work and flaggers), will be required to minimize disruptions to the public, especially in the vicinity of signalized intersections and major driveways. Horizon has designed TCPs as both the design engineer and the contractor's engineer; therefore, we know what information needs to be included on the TCP for bidders to be able to minimize contingencies and refine their bid prices for temporary traffic control. Additionally, we will evaluate the potential use of high early strength concrete for PCCP panel replacement to minimize the duration of lane/road closures.

5. CONSTRUCTION QUALITY

The quality of construction of PCC and asphalt roads has a major impact on their durability, longevity, and rideability. Common factors that must be considered are:

- Cracking, potholes, and other similar localized failures typically occur due to underlying base issues, such as poor compaction and inadequate drainage. Our Team will include requirements for inspection of the condition of the existing base after PCCP panel/asphalt pavement removal but prior to replacement/patching to ensure that additional base compaction and/or installation is performed if necessary.
- Cracking shortly after concrete placement typically occurs due to improper panel aspect ratios/joint spacing, inadequate contraction joint depth, and too much time elapsing between concrete set and saw cutting of contraction joints. Our Team will clearly specify joint layouts, contraction joint depths, and maximum durations that can elapse before saw cutting joints, preferably within approximately 4 hours.

- Cracking, separation, and other similar deterioration along PCCP joints typically occur due to misaligned dowels, poor concrete consolidation, and debris filling joints. Our Team will include requirements for proper dowel alignment (perpendicular to joints), inspection of concrete placement to verify that concrete is sufficiently consolidated, and verification of preparation/cleaning of joints and interfaces between existing and new PCCP prior to installation of joint filler and/or sealant and concrete placement.
- Excessive roughness and unevenness can negatively impact rideability and typically occur due to improper screed/paver settings. Horizon will include requirements for verification of elevations and slopes, performance of a dry run of the screed/paver, and proper operation of the screed/paver.

6. SIGNALIZED INTERSECTIONS AND ITS INFRASTRUCTURE

Loop detectors and other ITS infrastructure at intersections may need to be replaced if associated PCCP panels are replaced or associated asphalt pavement is milled and overlaid. Our Team will replace the loop detectors in kind or design alternative methods (e.g., cameras) if requested, as well as consider the proximity of work to intersections when developing the Sequence of Construction and TCP.

DESIGN SCOPE OF WORK

Horizon fully understands the scope of work and will complete all design and construction stage tasks listed in Attachment A of the Advertisement in accordance with applicable requirements, such as 23 CFR 630, Preconstruction Procedures; 23 CFR 625, Design Standards for Highways;

Americans with Disabilities Act (ADA); DOTD PRR Minimum Design Guidelines; DOTD Guidance for Preservation / Rehabilitation / Replacement (PRR) Projects; DOTD Guidance for Safety Improvements for PRR Projects; 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 Guide for the Planning, Design, and Operation of Pedestrian Facilities; DOTD Complete Streets and Access Connections Policies; 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 each task order safely, correctly, on time, and in accordance with DOTD's requirements:

PRE-DESIGN PHASE

- **Project Set-Up Meeting:** Meet with DOTD to review the contract and scope of services; roles, responsibilities, and expectations; schedule; budget; and topographic survey, geotechnical investigation, traffic data collection/analysis, and design requirements.
- **Existing Data Review:** Review existing data, such as as-builts for the original road construction and subsequent improvements/repairs, improvement studies, soil borings, pavement cores, traffic studies, utility information, and other related information, if available, to identify the existing pavement thickness, base material and thickness, and joint details.
- **Design Progress Meetings:** Meet with DOTD monthly (or more frequently if desired) throughout design. Prepare agendas and meeting minutes.

- **Field Investigation:** Identify, photograph, classify, and log deteriorated PCCP panels, asphalt pavement localized failures (e.g., potholes), and required curb ramp locations. We will create a user-friendly, interactive map in ArcGIS Online that allows DOTD to view the locations of all deteriorated PCCP panels, asphalt pavement localized failures, and required curb ramps on an aerial and, after clicking on a location, view its condition rating, photos, measurements, coordinates, and other related information. The map will also allow the deficient pavement to be sorted according to its condition rating, which will facilitate removal of less critical repairs from the scope of work if necessary to remain within the budget.
- **Survey, Geotechnical, and Traffic Scope:** Prepare the topographic survey, geotechnical investigation, and traffic data collection/analysis scope of work and submit to DOTD for review.
- **Topographic Survey:** Establish baseline along each road and temporary benchmarks for horizontal and vertical control. Obtain road, bridge, drainage structure, and guardrail information in accordance with EDSM I.1.1.11. Obtain points at each corner of deteriorated PCCP panels to identify panel coordinates and facilitate accurate estimation of quantities. Obtain points as necessary to delineate asphalt pavement road and driveway limits and facilitate preparation of typical sections. Obtain additional points as necessary to facilitate scaling and alignment of aerials. Obtain additional points at intersections to facilitate curb ramp design. All surveying will be performed in accordance with the DOTD Location and Survey Manual, including Addendum A.

- **Geotechnical Investigation:** If adequate existing data is not available to determine the existing pavement thickness, or base rehabilitation is deemed necessary, obtain pavement cores and shallow borings to a minimum of 4 feet below the pavement surface or 2 feet below the bottom of the base (whichever is deeper) along each road. Classify soil in accordance with the AASHTO Soil Classification System.
- **Traffic Data Collection/Analysis:** If adequate traffic data is not available, or DOTD requests additional data, obtain 7 day/24 hour (or 48 hour if permitted) volume counts with classifications in accordance with DOTD Traffic Engineering Process and Report (TEPR) requirements. Volume counts and classifications will be obtained using PicoCount 2500 counters. For multi-lane roads, multiple sets of tubes/counters will be used to properly classify directional traffic in each lane. The traffic data will be used to calculate design ESALs and determine the appropriate pavement section if DOTD would like the pavement thickness to be greater than the existing thickness.

DESIGN AND PREPARATION OF PLANS, SPECIFICATIONS, AND OPCC

- **Plan Preparation:** Prepare Plans on 8.5"x11" sheets (or larger if requested) in accordance with DOTD CAD Standards. Use CADconform to verify conformance with DOTD CAD Standards.
Prepare the following plan sheets:
 - **Title Sheet and Layout Map**
 - **Index**
 - **General Notes**, including a general description of the scope of work; One Call and utility contact information; clarifications regarding the applicability of

DOTD standard plans; base inspection requirements after pavement removal to either verify that it is in acceptable condition or determine whether additional material needs to be installed and compacted prior to concrete placement/asphalt patching; and required approvals for PCCP panels to be replaced, asphalt patches, and striping layouts prior to the start of the associated work.

- **Project Map**, including an overview of each road's work limits, baselines, and repair locations.
- **Summary of Estimated Quantities**, including primarily standard DOTD pay items and only including nonstandard pay items when a standard pay item does not exist.
- **Summary Sheets**, including designation (e.g., panel number), coordinates and/or stationing, description (e.g., travel direction/lanes, length, and width), and applicable pay item (e.g., different pay items will be used for different sized repairs) for PCCP panel replacement, asphalt mill/overlay, curb ramps, driveways, concrete curb, incidental concrete pavement, sidewalks, saw cutting, adjustment of drainage structures (or grate replacement), and striping as applicable. The estimated quantities will be noted as being for informational purposes only and that deterioration could have occurred between plan preparation and the start of construction.
- **Typical Sections (Asphalt Only)**, including pavement section(s), limits of milling/overlay, pavement markings, and other related information.
- **Plan Sheets (PCCP Only)**, including aerial of road, baselines, repair designations/locations, and notes

referencing the general notes, applicable standard plans, and summary sheets.

- **Reference Points**, including baselines and TBM coordinates and type (iron rod, cross cut, etc.)
- **Detail Sheets**, including curb ramps, loop detector replacement, tie-ins to existing pavement or curbs, drainage structure adjustments, and base rehabilitation as necessary and notes describing where they apply and whether they supersede any standard plans.
- **Pavement Marking Layout**, including striping near intersections and other complex areas where standard plans do not apply.
- **Sequence of Construction**, including measures to minimize disruptions to businesses and traffic, such as staggering PCCP panel replacement/asphalt mill/overlay and limiting the maximum number of driveways or medians that can be closed at one time. The use of high-early strength concrete will also be considered to minimize disruptions.
- **Traffic Control Plan**, including TTC devices to properly delineate the travel lanes and any required detours (vehicular and pedestrian) during construction and

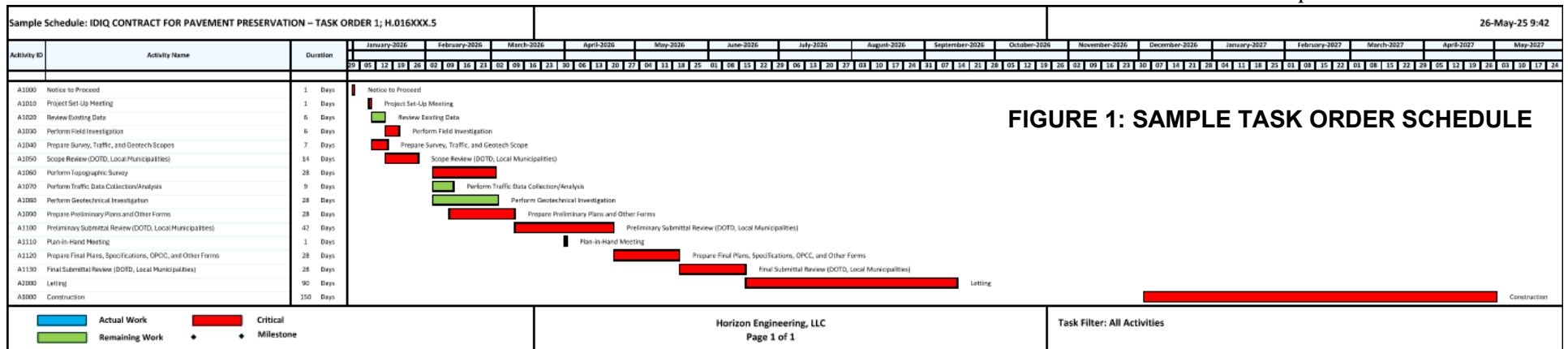
minimize the potential of motorists driving into the work zone or freshly placed concrete. Flaggers may also be required at major intersections to guide traffic during active construction periods. The TCP will be designed in accordance with the MUTCD, DOTD Traffic Engineering Manual, and DOTD TTC standard plans.

- **Subgrade Soil Survey (if performed)**
- **DOTD Standard Plans:** Incorporate applicable DOTD standard plans and special details, including BM-01, CB-06, CB-Adjust, MC-01, and MH-06 (for drainage structure adjustments or replacement); CP-01, CPR-01-03, DW-01, and PM-01-02, 05, and 07-08 (for PCCP panel replacement); PED-01 (for curb ramps); TTC-00(A) – (D), 02-04, 06-07, 09-10, and 15-18 (for TTC); and TSD-11 (for loop detectors).
- **Specification Preparation:** Prepare nonstandard specifications, such as saw cutting. Assist DOTD with preparation of special provisions as requested. Incorporate the following standard specifications:
 - DOTD Standard Specifications for Roads and Bridges, 2016 Edition
 - DOTD 2016 Supplemental Specifications
 - Applicable ASTM standards if necessary

- **Opinion of Probable Construction Cost:** Prepare OPCC using estimated quantities, recent DOTD letting information, and bid tabs of recent projects of similar scope and magnitude.
- **Submittals:** Upload submittals directly to ProjectWise if directed, including:
 - **Survey Data and Base Map (if requested)**
 - **Baseline Safety Improvements Checklist**
 - **Preliminary Submittal and PRR Report** (plan-in-hand meeting to follow)
 - **Final Submittal and PRR Report**, including digitally sealed and signed final Plans with written certification.
 - **SWPPP Form**
 - **Constructability Review Form**
 - **Estimated Contract Time Worksheet**
 - **QA/QC Checklist**
 - **Additional Submittals (if requested)**

CONSTRUCTION PHASE

- **Preconstruction Conference:** Attend preconstruction conference with DOTD and Contractor.
- **Requests for Information (RFIs):** Review RFIs within 48 hours of receipt.
- **Construction On-Call Support:** Visit the project site and assist DOTD and the Contractor with questions and clarifications.

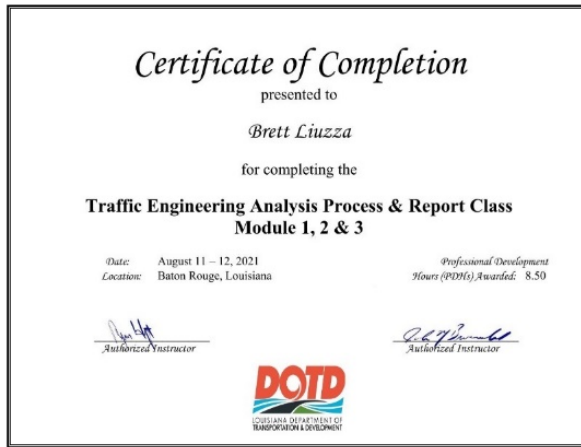


19. Workload:

Firm(s) <u>ALL FIRMS</u> MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Horizon Engineering, LLC	CE&I/OV	Contract No. 4400029428 S. P. No. H.014049.6	St. Bernard Pedestrian Improvements (CE&I)	\$106,040
	CE&I/OV	Contract No. 4400029661 S. P. No. H.012868.6	Fortune Road Pavement Preservation (CE&I)	\$92,626
	CE&I/OV	Contract No. 4400030048 S. P. No. H.012867.6	S Larriviere Rd: LA 92 – Chemin Metairie (CE&I)	\$673,417
Delta Design Professionals LLC	N/A	N/A	N/A	N/A
Delta Land Surveying, LLC	N/A	N/A	N/A	N/A
Civil Design & Construction, Inc.	Survey	4400023689/H.013622.5	LSRP Ardenwood Dr	\$24,366
	Survey	4400027093/H.015847.5	US90: LA668 - LA318	\$49,318
	Survey	4400026911/H.013718	LA 23 – Gretna Blvd.	\$13,600

20. Certifications/Licenses:

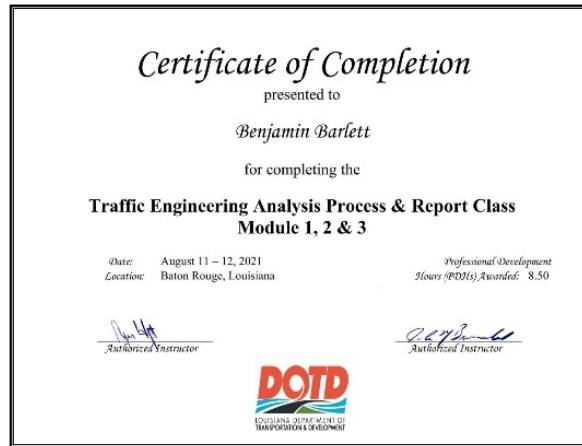
Brett Liuzza, PE



HORIZON ENGINEERING, LLC

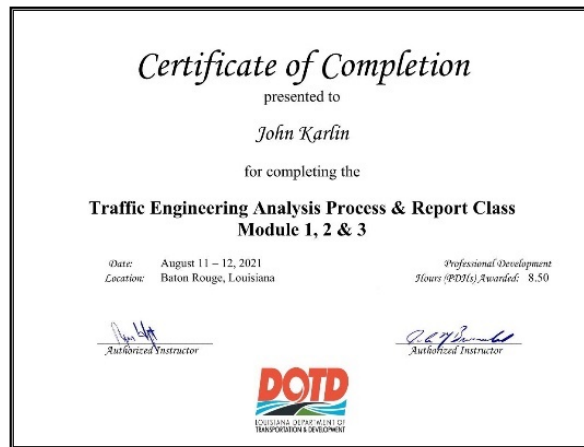
20. Certifications/Licenses:

Ben Bartlett, PE, PTOE



20. Certifications/Licenses:

John Karlin, SE, PE



HORIZON ENGINEERING, LLC

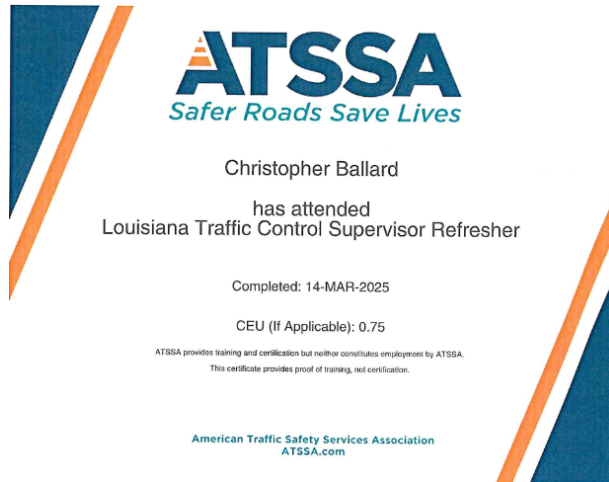
20. Certifications/Licenses:

James “Ken” Free, PE



20. Certifications/Licenses:

Chris Ballard, PLS



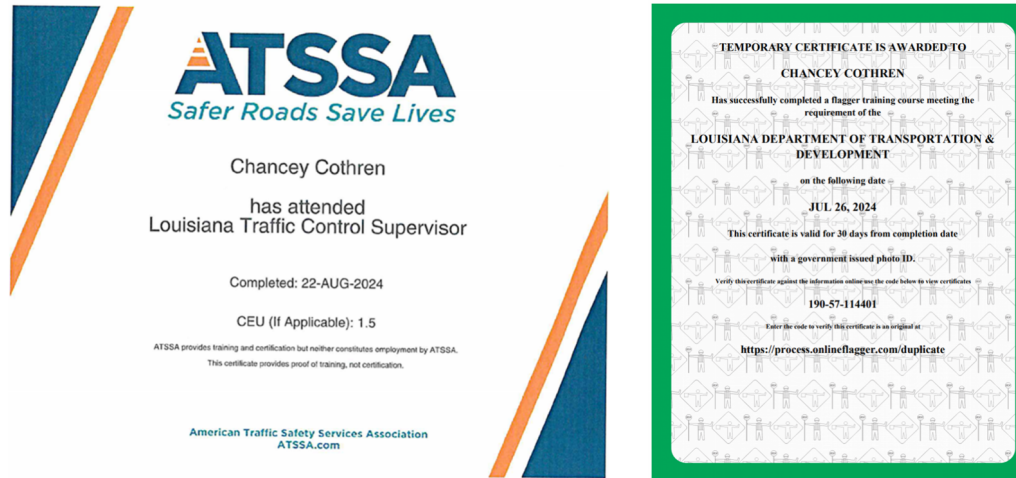
20. Certifications/Licenses:

Madison Mills, PLS



20. Certifications/Licenses:

Chancey Cothren, LSI



***Renewed flagger certification in May 2025 and currently awaiting new flagger card**

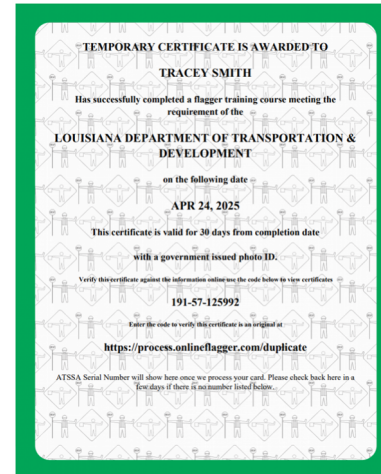
20. Certifications/Licenses:

Clarence Goodspeed



20. Certifications/Licenses:

Tracey Smith



***Renewed flagger certification in May 2025 and currently awaiting new flagger card**

20. Certifications/Licenses:

Firm Registrations with Louisiana Secretary of State

Louisiana SECRETARY OF STATE NANCY LANDRY

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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

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Name	Type	City	Status
DELTA DESIGN PROFESSIONALS LLC	Limited Liability Company	WINNSBORO	Active

Previous Names

Business: DELTA DESIGN PROFESSIONALS LLC
 Charter Number: 44462763K
 Registration Date: 6/15/2021

Domicile Address

4141 HWY 577
 WINNSBORO, LA 71295

Mailing Address

4141 HWY 577
 WINNSBORO, LA 71295

Status

Status: Active
 Annual Report Status: In Good Standing
 File Date: 6/15/2021
 Last Report Filed: 6/27/2024
 Type: Limited Liability Company

Delta Design Professionals LLC

Louisiana SECRETARY OF STATE NANCY LANDRY

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Name	Type	City	Status
DELTA LAND SURVEYING, LLC	Limited Liability Company	FARMERVILLE	Active

Previous Names

Business: DELTA LAND SURVEYING, LLC
 Charter Number: 43206383K
 Registration Date: 9/25/2018

Domicile Address

102 WEST BAYOU
 STE 1
 FARMERVILLE, LA 71241

Mailing Address

102 WEST BAYOU
 STE 1
 FARMERVILLE, LA 71241

Status

Status: Active
 Annual Report Status: In Good Standing
 File Date: 9/25/2018
 Last Report Filed: 8/26/2024
 Type: Limited Liability Company

Delta Land Surveying, LLC

Louisiana SECRETARY OF STATE NANCY LANDRY

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Name	Type	City	Status
CIVIL DESIGN & CONSTRUCTION, INC.	Business Corporation	PORT ALLEN	Active

Previous Names

Business: CIVIL DESIGN & CONSTRUCTION, INC.
 Charter Number: 35961196D
 Registration Date: 6/15/2005

Domicile Address

3251 SOUTHERN PACIFIC ROAD
 PORT ALLEN, LA 70767

Mailing Address

P O BOX 857
 PORT ALLEN, LA 70767

Principal Office Address

3251 SOUTHERN PACIFIC ROAD
 PORT ALLEN, LA 70767

Status

Status: Active
 Annual Report Status: In Good Standing
 File Date: 6/15/2005
 Last Report Filed: 5/20/2025
 Type: Business Corporation

Civil Design & Construction, Inc.

HORIZON ENGINEERING, LLC

20. Certifications/Licenses:

Civil Design & Construction, Inc. DBE Certification



21. QA/QC Plan:

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

22. Sub-consultant information:

Firm Name (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>)	Address	Point of Contact and email address	Phone Number
Delta Design Professionals LLC	4141 Hwy 577 Winnsboro, LA 71295	James "Ken" Free, PE ken.free@deltadp.com	(318) 729-9035
Delta Land Surveying, LLC	102 W. Bayou St., Suite 1 Farmerville, LA 71241	Craig Stiffler, PLS craigstiffler@deltalandsurvey.com	(318) 982-8090
Civil Design & Construction, Inc.	3251 Southern Pacific Road Port Allen, LA 70767	Karla E. Weston, PE kweston@cdcbr.com	(225) 765-1802

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.**