



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

DOTD FORM 24-102

CONTRACT NO: 4400028434

STATE PROJECT NO: H.015568.5

FEDERAL AID PROJECT NO: H.015568

LA 44: Pelican Point Roundabout and Widen



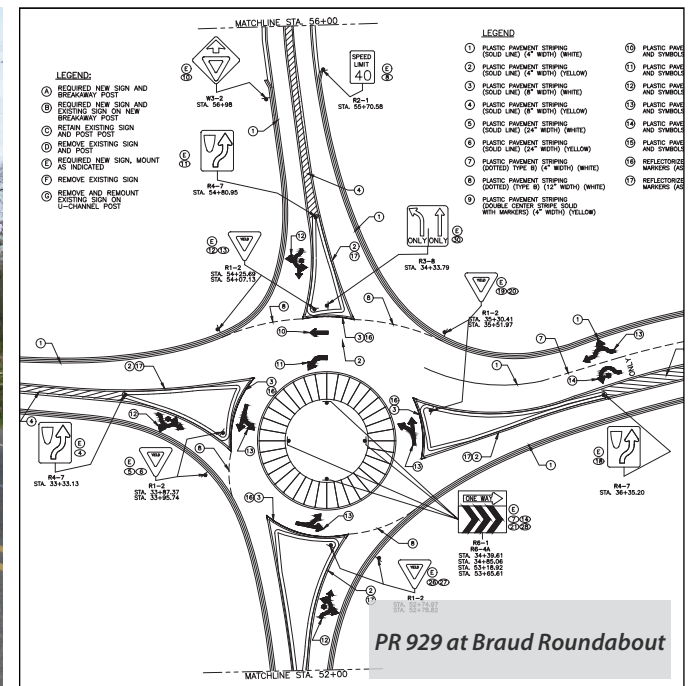
I-10 / Causeway Interchange



US 167 Widening



HWY 11 Widening



PREPARED BY



BURK-KLEINPETER, INC.

IN ASSOCIATION WITH:

URBAN SYSTEMS, INC.

ADVANCED BRIDGE DESIGN, PLLC

CHAIRMAN OF THE BOARD
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ENGINEERING · PLANNING · ENVIRONMENTAL

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RENE A. CHOPIN, III, PE
HENRY M. PICARD, III, PE, PLS

2400 VETERANS MEMORIAL BLVD., SUITE 310, KENNER, LA 70062
TELEPHONE (504) 486-5901 FAX (504) 483-6298
WWW.BKIUSA.COM

VICE PRESIDENT
DAVID E. BOYD, PE

OVER 100 YEARS OF SERVICE

February 6, 2024

Department of Transportation and Development
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

RE: CONTRACT NO. 4400028434
STATE PROJECT NO. H.015568.5
FEDERAL AID PROJECT NO. H015568
LA 44: PELICAN POINT ROUNDABOUT AND WIDEN
ASCENSION PARISH

To Whom It May Concern,

In response to your request for qualifications for the above-referenced project, **Burk-Kleinpeter, Inc. (BKI)**, **Urban Systems, Inc. (USI)**, and **Advanced Bridge Design, PLLC. (ABD)** are pleased to submit our Statement of Qualifications.

The LA 44 corridor is an essential transportation route between I-10 and LA 22 in Ascension Parish. The corridor has experienced significant traffic growth due to rapid development. To improve operational capacity and safety, LADOTD has proposed widening the entire corridor to four lanes and adding eight roundabouts at major intersections. The Department will break up the design and construction into several separate contracts.

Our team has the technical expertise to manage the project effectively and provide all necessary engineering and related services for the project management, road design, traffic engineering, bridge evaluation, and bridge design tasks described in the scope of services. We have a proven track record of preparing roadway and bridge plans, specifications, bridge evaluations and designs. BKI and our subconsultants have the local knowledge required to fulfill the Department's requirements and complete the project on schedule.

Our team will take special care to meet context-sensitive challenges and adhere to the DOTD policies and procedures. We are committed to high-quality coordination and communication and will ensure a safe, efficient, and attractive improvement for all roadway users including drivers, pedestrians, and cyclists. We look forward to collaborating with the Department and local stakeholders on this project.

BKI's team is the best choice for the LA 44: Pelican Point Roundabout and Widening project.

Sincerely,

René A. Chopin, III, PE



DOTD FORM: 24-102

Proposal to Provide Consultant Services

(Revised January 1, 2023)

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	LA 44: Pelican Point Roundabout and Widen
2. Contract number(s) as shown in the advertisement	4400028434
3. State Project Number(s), if shown in the advertisement	H.015568.5
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	License No: EF.0000124
6. Prime consultant mailing address	2400 Veterans Memorial Blvd. Suite 310 Kenner, LA 70062
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	2400 Veterans Memorial Blvd. Suite 310 Kenner, LA 70062
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Rene' A. Chopin, III, PE, Senior Vice President, 504.486.5901, rchopin@bkusa.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Rene' A. Chopin, III, PE, Senior Vice President, 504.486.5901, rchopin@bkusa.com
10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 Signature above shall be the same person listed in Section 9: 02/06/2024 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): Urban Systems, Inc.	Firm(s) %: 9.9%
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12. Past Performance Evaluation Discipline Table:

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

The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

<p>Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.</p>					
Past Performance Evaluation Discipline(s)	% of Overall Contract	BKI	Urban Systems	Advanced Bridge Design	Each Discipline must total to 100%
Road	70%	93%	7%	0%	100%
Bridge	25%	80%	0%	20%	100%
Traffic	5%	0%	100%	0%	100%
<p>Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.</p>					
Percent of Contract	100%	85.1%	9.9%	5%	100%

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

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (please specify)" and include the classification title inside the parentheses.

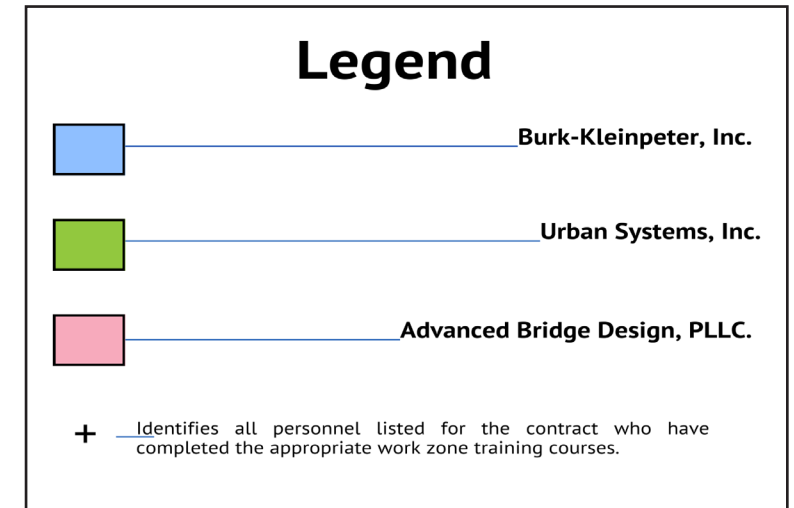
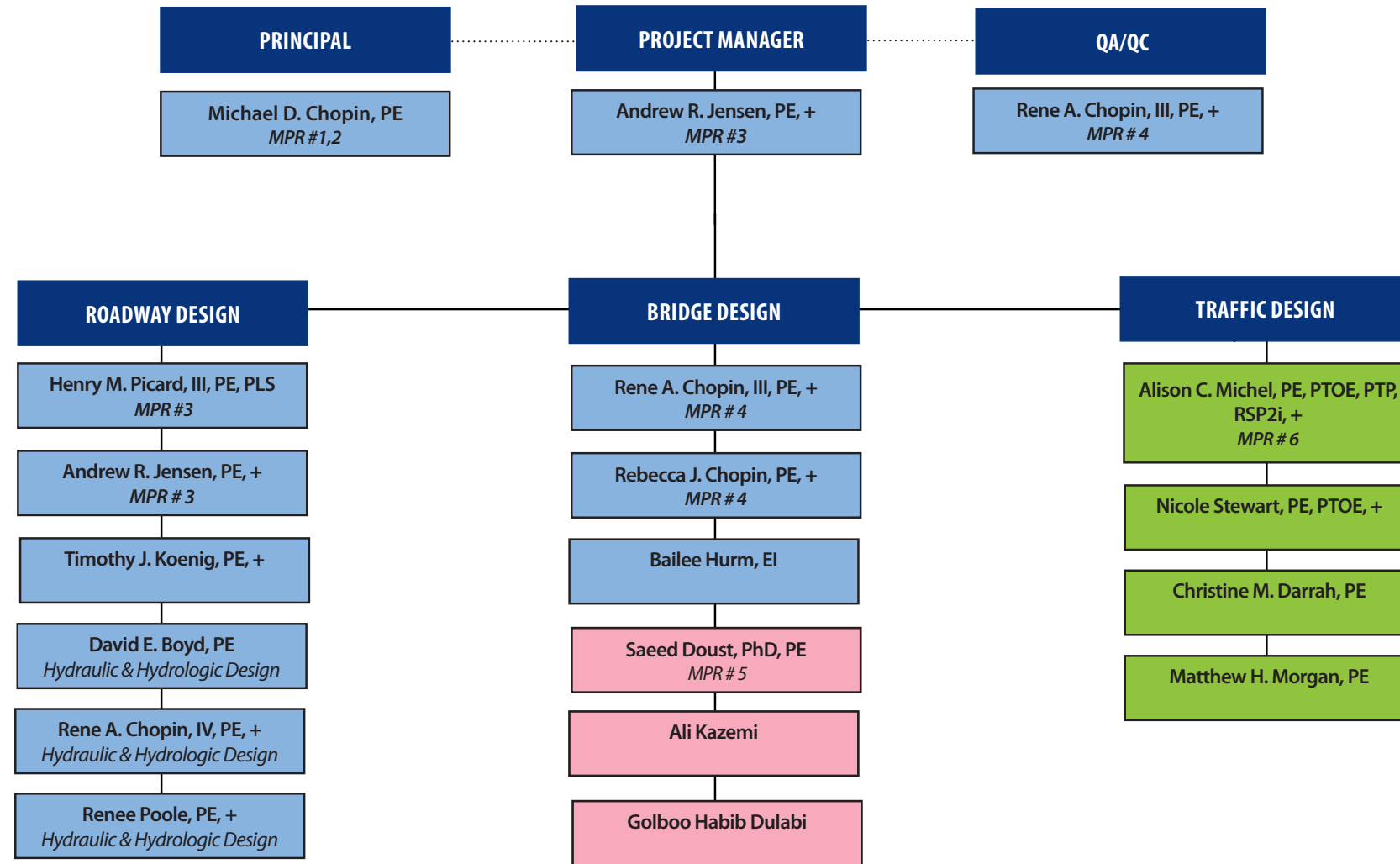
The DOTD Job Classification(s) to be used can be found at the following link:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm Name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
BURK-KLEINPETER, INC.	Engineer	6	10
BURK-KLEINPETER, INC.	Engineer Intern	1	1
BURK-KLEINPETER, INC.	Supervisor - Engineer	2	2
BURK-KLEINPETER, INC.	Principal	1	1
BURK-KLEINPETER, INC.	Environmental Professional	0	1
BURK-KLEINPETER, INC.	CADD Technician	2	2
Urban Systems, Inc.	Supervisor-Eng	1	2
Urban Systems, Inc.	Engineer	1	2
Urban Systems, Inc.	Engineer Intern	1	3
Urban Systems, Inc.	Senior Technician	1	1
Urban Systems, Inc.	CAD Technician	1	1
Urban Systems, Inc.	Inspector	0	1
Urban Systems, Inc.	Engineering-Aide	1	3
Advanced Bridge Design, PLLC	Engineer	1	1
Advanced Bridge Design, PLLC	Engineering-Aide	1	2
Advanced Bridge Design, PLLC	Drafter	1	1

14. Organizational Chart:

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. **If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20.** It is acceptable to use an 11x17 format for Section 14.




15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

MPR No. <u>Do not insert wording from ad</u>	Personnel being used to meet the MPR <small>(Individual(s) may not satisfy more than one MPR unless specifically allowed by attachment B of the advertisement)</small>	Firm employed by	Type of license and discipline meeting MPR/ certification & number <small>(Ex: PE # - Civil)</small>	State of License	License / certification expiration date
1.	Michael D. Chopin, PE	BURK-KLEINPETER, INC.	PE / 26797 - Civil	LA	9/30/2024
2.	Michael D. Chopin, PE	BURK-KLEINPETER, INC.	PE / 26797- Civil	LA	9/30/2024
3.	Henry M. Picard, III, PE, PLS	BURK-KLEINPETER, INC.	PE / 22289 - Civil PLS / 4736	LA	3/31/2025
3.	Andrew R. Jensen, PE	BURK-KLEINPETER, INC.	PE / 43382 - Civil	LA	9/30/2025
4.	Rene A. Chopin, III, PE	BURK-KLEINPETER, INC.	PE / 25174 - Civil	LA	9/30/2025
4.	Rebecca J. Chopin, PE	BURK-KLEINPETER, INC.	PE / 41841 - Civil	LA	3/31/2024
5.	Saeed Doust, PH.D, PE	Advanced Bridge Design, PLLC	PE / 38907 - Civil	LA	9/30/2024
6.	Alison C. Michel, P.E., PTOE, PTP, RSP _{2i}	Urban Systems, Inc	PE / 30261- Civil PTOE / 1023 PTP / 626 RSP _{2i} / 148	LA	3/31/2025

16. Staff Experience:


Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BKI BURK-KLEINPETER, INC.					
Name	Michael D. Chopin, PE		Years of experience with this firm/employer		32
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)		0
Degree(s) / Years / Specialization		Bachelor of Science/1991/Civil Engineering			
Active registration number / state / expiration date			26797 / LA / 09-30-2024		
Year registered	1996	Discipline	Professional Engineer		
Contract role(s) / brief description of responsibilities <i>Principal to provide project oversight and quality assurance/quality control.</i> MPR #1,2					
<p>Mr. Chopin is a Principal and the President at BKI. He oversees personnel, including schedules, staff, budgets, technical review, and account management. He has 27 years of professional engineering experience and has provided professional consulting focused on a wide range of public works projects. His relevant experience for this proposed contract includes design, preparation of preliminary and final roadway plans, and specifications in accordance with the LADOTD Road Design Manual, the LADOTD Hydraulic Design Manual, the AASHTO Policy on Geometric Design, and other publications required by the LADOTD. In addition to the roadway design, Mr. Chopin has extensive drainage design experience related to roadway drainage collection systems, watershed analysis, channel conveyance, and scour protection.</p>					
Highlights: LADOTD Requirements and Procedures, Project Management, QA/QC, Cost Reimbursements, FEMA Regulations					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/07 - 07/24 (est) Project in Section 17	Peters Road Bridge and Extension (H.008068, H.008069, 008244), Plaquemines and Jefferson Parishes, LA Project principal providing QA/QC and project oversight for a new fixed, high level bridge and approach roadways across the intracoastal waterway (AASHTO LRFD Design). Project also includes four miles of new approach roadways and reconfiguring the Peters Road/Engineers Road Interchange. In addition, provided extensive drainage review for the purposes of both satisfying Jefferson Parish’s and LADOTD’s design requirements relative to both the roadway’s drainage collection system and the box culvert that is required to allow a portion of the roadway to be placed over the one of the Parish’s major drainage canals.				
04/11 - 01/24 (est) Project in Section 17	Causeway Blvd. (LA3046) / Earhart Expressway (LA 3139) Interchange (H.002861), Jefferson Parish, LA Project Principal providing oversight and quality assurance for preliminary and final plans for a new interchange on Earhart Expressway (LA3139) at Causeway Blvd. (LA 3046). Project includes road design, bridge design, high mast and standard lighting poles and luminaires, existing girders, inspection, and bridge rating of existing structures. The interchange fits within a compact footprint with unique geometric challenges. It features seven new ramps which include at-grade roadways and bridge structures. Six of the eight movements were under free-flow conditions and two will function under a signal-controlled condition. The project improved connectivity between major regional employment centers in the Earhart Expressway and Causeway Boulevard corridors.				

<p>03/15 - 12/24 (est) Project in Section 17</p>	<p>Mandeville Bypass Project, Mandeville, LA Provided project quality control and quality assurance and guidance for the preparation of line and grade studies. Permitting, preliminary design, and final design. Project is for a new 3.5-mile roadway connecting US-90 and LA 1088 including a multi-use path and two roundabouts. In addition, a 140-foot-long bridge consisting of seven (7) cast-in-place slab spans on pile bents was required to cross Bayou Castine.</p>
<p>04/18 - 03/21 Project in Section 17</p>	<p>Parish Rd 929 at Braud Rd Roundabout, Ascension Parish, LA Providing QA/QC for the design of a single lane roundabout at Parish Road 929 and Braud Road. The project is part of the MOVE ASCENSION program to improve traffic conditions across the parish. Although this was an Ascension Parish program, for consistency and convenience, LADOTD standards, references, manuals, and format requirements were used.</p>
<p>08/20 – 02/19</p>	<p>4th Street Extension (H.001413), Gretna, LA Project Engineer/Manager for an Environmental Assessment (NEPA), line and grade study, preparation of plans and specifications for a new roadway extension. Project consisted of a new two lane, 1.5-mile-long, concrete roadway, sidewalks, ADA ramps, new drainage collection system and outfall, new railroad at grade crossing, street lighting, and landscaping. Specific role on the project included the drainage design and establishing the roadway horizontal and vertical geometry. Provided overall project management for the completion of the plans and specifications.</p>
<p>12/17 - Ongoing</p>	<p>LA 466 / 5th Street Improvements, Gretna, LA As principal, provided QA/QC and general project oversight for streetscape improvements to the 5th Street corridor between Richard Street and Franklin Avenue. BKL prepared both preliminary and final plans in accordance with design criteria to be developed with input from LADOTD and the City of Gretna.</p>
<p>08/17 - 01/18 09/00 - 05/01</p>	<p>Stumpf Boulevard Drainage Improvements - Stumpf Boulevard Right Turn Lane at Westbank Expressway, Gretna, LA Provided project oversight for the installation of a 72-inch drainage pipe in the Stumpf Boulevard Canal. The pipe would provide sufficient capacity to convey storm water while addressing bank erosion. Adjacent travel lanes along Stumpf Boulevard were replaced after the base failed and roadway surface settled or warped. Project Manager for construction of new right turn lane (approximately 350 feet long) on Stumpf Blvd. for vehicles turning onto the Westbank Expressway service road.</p>
<p>10/99 – 06/05</p>	<p>I-10 Southern Railroad Underpass – Tulane Avenue Interchange (SP 450-90-0103), Orleans Parish, LA Lead Project Engineer for the design of a new 850 cubic foot per second drainage pumping station for the interchange. Project included modification to the existing subsurface drainage system and roadway to facilitate the pumping station. Specific design role on this project included the hydrologic and hydraulic analysis to size both the drainage pumping station and the subsurface drainage collection system in accordance with both LADOTD and Sewerage and Water Board of New Orleans requirements. In addition, prepared modifications to the roadway plans and specifications to reflect the new drainage system.</p>

16. Staff Experience:


Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BKI BURK-KLEINPETER, INC.				
Name	Rene A. Chopin III, PE	Years of experience with this firm/employer		35
Title	Civil Engineer	Year of experience with other firm(s)/employer(s)		0
Degree(s) / Years / Specialization		Bachelor of Science/1988/Civil Engineering		
Active registration number / state / expiration date		25174 / LA / 09-30-2025		
Year registered	1993	Discipline	Professional Engineer - Structural	
Contract role(s) / brief description of responsibilities <i>Civil engineer to provide project quality control and quality assurance and guidance for structural requirements of bridges.</i> MPR #4				
<p>Mr. Chopin will provide project control and quality assurance and guidance for structural requirements of bridges. He will be involved with establishing the design criteria, type, size, and location, design, and serve as the Engineer of Record for each bridge site. He has experience in preparing preliminary and final bridge plans in accordance with LADOTD BDEM, BDTMs and ASSHTO for cast-in-place slab span, and precast prestressed girder bridges supported on both pile bents, and column bent.</p> <p>Highlights:LADOTD Requirements and Procedures, AASHTO Codes and Standards, Bridge Design, Cost Estimates, Special Provisions, Project Management, and QA/QC</p>				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/09 - 07/24 (est) Project in Section 17	Peters Road Bridge and Extension Peters Road Bridge and Extension (SPNs H.008068, H.008069, 008244), Plaquemines and Jefferson Parishes, LA Project Manager and EOR for a new State Route LA 1261 crossing the Intracoastal Waterway in Plaquemines Parish. The project includes four miles of roadway with various size box culverts crossing drainage canals, reconfiguring the Peters Road/Engineers Road Interchange, two new bridges over the Barataria Canal, 2,069 feet long four barrel 10'x10' box culvert in the Murphy Canal, and a new fixed, high-level bridge. The roadway and bridge were designed for building a two-lane facility, with right-of-way established for a future build-out to a four-lane facility. Mentored younger engineers, collaborating with them on deck design, slab span design, pile-bent and column bent substructure design. Designed and detailed two hammerhead column bents as design examples. Checked the design calculations (LRFD) of the bridge decks, prestressed girders (AASHTO Type III and BT-72), 3-span continuous steel plate girders (main span), cast-in-place slab spans (both straight and curved), column bents, and pile bents. A unique feature was bridge structure with three directional approach slabs, two parallel and one perpendicular to the Barataria Canal, due to the proximity of the roadway to top of bank of the canal. Final QC of roadway and bridge plans for the entire project. Also provided oversight of all design waivers and exceptions required for the project, estimated quantities, cost estimates, and special provisions. Project Manager for construction engineering support including shop drawings, submittal review, and answering RFIs, for Phase I of the project completed in 2014. Phase I was three miles of roadway from LA 23 to Barriere Canal Road with various size box culverts with both open and subsurface drainage.			

<p>01/13 - 01/24 (est)</p> <p>Project in Section 17</p>	<p>Earhart Expressway Interchange (SPN H.002861) - Causeway Blvd., Jefferson Parish, LA Project Manager and EOR providing design oversight and mentoring of younger engineers for a new interchange between Earhart Expressway (LA3139) and Causeway Boulevard (LA 3046). The existing bridges widened for the interchange were inspected and rated per the Load Resistance Factor Rating (LRFR) and recommendations for correcting deficiencies for LADOTD's consideration. Prepared the framing plans for the new ramps consisting of AASHTO Type, II, Type III, and BT-72 girders along with curved three-span continuous steel plate girders. Designed and detailed five hammerhead column bents as examples for younger engineers. Checked the design calculations (LRFD) of the bridge decks, prestressed girders, curved steel plate girders, and rolled steel girders (for widening the Causeway bridges), cast-in-place slab spans (both straight and curved), column bents (both hammerhead and multi-column), and pile bents with curtain walls. Final QC of roadway and bridge plans for the entire interchange. Also provided oversight of all design waivers and exceptions required for the project, estimated quantities, cost estimates, and special provisions.</p>
<p>08/20 - Ongoing</p> <p>Project in Section 17</p>	<p>Rural Bridges Replacement Initiative Phase I & II, Various Parishes, LA QA/QC and engineer of record for the LADOTD Rural Bridge Replacement Initiative including 67 bridges on the State Highway System and local roadways in Districts 03, 05, 07, 08, 58, 61, and 62. Work included removal of existing bridges and construction of new concrete bridges, new concrete pilings, new guard rails, replacement of roadway, installation of reinforced concrete boxes (where applicable), and widening of roadway embankment. The contract required special (non-standard) bridge design, in some cases, of cast-in-place slab span bridges with irregular deck geometry, including superstructure and substructure bridge elements. The contract also required the design of a precast LG girder bridge that would be built in split phase construction to maintain traffic. As the engineer of record, Mr. Chopin is responsible for supervising all design tasks to ensure accuracy and compliance with the LADOTD and federal design criteria. Mr. Chopin oversaw the entire team which included professionals performing road, bridge, hydraulics, survey, geotechnical, and environmental design tasks. State Projects Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997, H.014242, H.014243, H.014245, H.014246, H.014247, H.4248.5, H.014249, H.0142450, H.014268</p>
<p>03/15 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass Project, Mandeville, LA Oversight of the bridge TS&L studies for two stream crossing sites. EOR with oversight of final bridge plans, including checking design calculations and final QC of plans for a 140 feet long bridge consisting of seven (7) 20' cast-in-place slab spans on pile bents over Bayou Castine. In addition to the vehicular bridge provided oversight of the design and details for the pile bents supporting a pre-engineered pedestrian bridge.</p>
<p>04/18 - 03/21</p> <p>Project in Section 17</p>	<p>Parish Rd 929 at Braud Road Roundabout, Ascension Parish, LA Provided QC review of design reports and roadway plans for a single lane roundabout at Parish Road 929 at Braud Road. Although this was an Ascension Parish program, for consistency and convenience, LADOTD standards, references, manuals, and format requirements were used.</p>
<p>12/13 - 09/19</p>	<p>Multiple Bridge Replacements: Bob Pettit Road Bridge and Claycut Road Bridge, Baton Rouge, LA Structural QA/QC for the replacement of a bridge on Bob Pettit Road over Bayou Fountain and Claycut Road over Dawson Creek. The bridges, precast concrete slab span structures were each designed for at least two lanes of traffic with two six-foot sidewalks, The designs were completing in accordance with LRFD standards.</p>
<p>02/07 - 03/14</p>	<p>I-10 Widening Veterans Blvd. – Clearview Pkwy, Metairie, LA Project Manager for roadway and bridge design for widening approximately 1.5 miles of urban interstate highway. Provided Quality Control of roadway and bridge plans during preliminary and final plans. Attended the monthly partnering meetings and supervised the shop drawing reviews and answered RFIs during construction.</p>

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BKI BURK-KLEINPETER, INC.					
Name	Andrew R. Jensen, PE		Years of experience with this firm/employer		9
Title	Project Manager		Years of experience with other firm(s)/employer(s)		0
Degree(s) / Years / Specialization		Bachelor of Science/2014/Civil Engineering			
Active registration number / state / expiration date			43382 / LA / 9-30-2025		
Year registered	2019	Discipline	Professional Engineer		
Contract role(s) / brief description of responsibilities <i>Project manager for project and will manage all aspects of road design, bridge design and coordination of subconsultants.</i> MPR #3					
<p>Since joining the BKI team in 2014, Mr. Jensen has performed civil engineering design services on many LADOTD and LPA projects that require adherence to LADOTD design criteria. He has extensive experience working on projects involving interchange design, roadway and bridge geometrics, typical sections, superelevation, intersections, roadway and bridge drainage design, LADOTD guard rail design, and pedestrian accessibility. Mr. Jensen is proficient in MicroStation, CadConform, AutoTurn, and InRoads software. He is experienced in plan development, project management, communication and leadership, document and deliverable control, and quality control. He is intimately familiar with LADOTD published design criteria and polices including the Complete Streets policy. He is experienced in providing complete deliverable packages with all required documentation including but not limited to, design reports, design waiver and exception requests, Transportation Management Plans (TMP), responses to comments, design calculation books, construction plans, and specifications. He has experience representing the design consultant during plan-in-hand meetings, joint plan review meetings, final plan review meetings, and constructibility biddability reviews. In addition, he received his ATSSA Traffic Control Supervisor Refresher - LA training in 2023.</p>					
Highlights: Project Management, LADOTD Requirements and Procedures, Roadway design, drainage design					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
10/09 - 07/24 (est) Project in Section 17	Peters Road Bridge and Extension - SPNs. H.008068, H.008069, 008244, Plaquemines and Jefferson Parishes, LA Roadway design engineer for a proposed fixed, high-level bridge across the Gulf Intercoastal Waterway with connecting roadways to Peters Road (LA 3017) in Jefferson Parish and LA Highway 23 in lower Belle Chasse, LA. Mr. Jensen is responsible for checking geometric data, guardrail design, intersection design, quantity calculations, cost estimating, and plan production. Performing super-elevation designs and worked with the bridge design team to make sure the geometric designs were correctly reflected in the structural designs and details for the project.				
07/14 - 01/24 (est) Project in Section 17	Causeway Boulevard (LA 3046) / Earhart Expressway (LA 3139) Interchange - SPN H.002861, Metairie, LA Roadway design engineer for proposed interchange in Jefferson Parish. Responsible for roadway and bridge geometrics for the complex interchange in a dense urban environment. Prepared geometric layout, geometric control, curve data, typical sections, and plan profile sheets. Produced guard rail design, superelevation details, graphical grades, pavement marking layouts, design reports, waivers, and exceptions. Created hydraulic calculations for storm drainage system and design drainage maps. Encountered and resolved major challenges during the design of the drainage network caused by a high-water surface elevation in the outfall canal. Coordination with utility companies to mitigate conflicts with existing utilities.				

<p>08/20 - Ongoing</p> <p>Project in Section 17</p>	<p>Rural Bridge Replacement Initiative Phase I & II, Various Parishes, LA Project Manager and roadway design engineer for the LADOTD Rural Bridge Replacement Initiative including 67 bridges on the State Highway System and local roadways in Districts 03, 05, 07, 08, 58, 61, and 62. Work included removal of existing bridges and construction of new concrete bridges, new concrete pilings, new guard rails, replacement of roadway, installation of reinforced concrete boxes (where applicable), and widening of roadway embankment. The contract required special (non-standard) bridge design, in some cases, of cast-in-place slab span bridges with irregular deck geometry, including superstructure and substructure bridge elements. The contract also required the design of a precast LG girder bridge that would be built in split phase construction to maintain traffic. As the Project Manager, Mr. Jensen is responsible for managing all design tasks and task leaders to ensure project delivery in accordance with the scope and schedule. He represents BKI as the prime consultant in all relevant meetings with the LADOTD, subconsultants, and stakeholders. The contracts include 25 state project numbers that needed to be delivered as separate construction packages. Mr. Jensen is responsible for each project as they all move through the development process. He practices a high level of communication and provides consistent updates as changes occur through the process. Mr. Jensen provides effective management of all subconsultants to ensure all deliverables are compliant regardless of which subconsultant produces them. As the roadway design engineer, Mr. Jensen is also responsible for all roadway design tasks. He develops the design criteria and design report in accordance with LADOTD guidance and the roadway design manual. He produces plan sheets including but not limited to, title sheets, typical sections and details, embankment widening details, summary tables, reference points & benchmark elevations, temporary erosion control, cross sections with earthwork calculations, geometric details, suggested sequence of construction, and plan profile sheets. State Projects Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997 H.014242, H.014243, H.014245, H.014246, H.014247, H.4248, H.014249, H.0142450, H.014268</p>
<p>03/15 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass Project, Mandeville, LA Roadway design engineer assisting with conformity with LADOTD and AASHTO design criteria. Geometric design review for roundabouts, intersections, superelevation, and geometric details. Plan development included the preparation of typical sections, plan/ profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections; and the generation of existing and proposed surface models.</p>
<p>Ongoing</p>	<p>25th Street Canal Drainage Improvements Project (Resiliency District), Gretna, LA Performed roadway design duties for the creation of green infrastructure along the 25th Street Canal. Also performed drainage design duties for the canal and surrounding streets to improve the drainage experienced in the surrounding neighborhood.</p>
<p>05/22 - Ongoing</p>	<p>New Orleans Rail Gateway Program / Jefferson Highway Rail Crossing Relocation Study, Jefferson and Orleans Parishes, LA Roadway design engineer for a Hazardous Materials Survey and Phase I ESA. Mr. Jensen was responsible for developing a line and grade design for two bridge overpass alternatives in a dense urban environment. A critical aspect of the project was to work within LADOTD design criteria and policies to provide the best possible design while still limiting the impact to the adjacent properties. He developed the roadway design criteria, design reports, typical sections, horizontal and vertical geometry, apparent and required right-of-way limits. He also worked closely with the planners and environmental professionals to analyze impacts to the adjacent businesses and then included impact mitigation into the design.</p>
<p>12/17 - 03/19</p>	<p>Fourth Street Extension, Gretna, LA Provided civil engineering services as well as construction administration, and LADOTD coordination for the design and construction of a two-lane, minor arterial roadway (LA 18 / Fourth Street Extension) within the former Union Pacific Railroad right-of-way. The roadway section consisted of 12-foot lanes and subsurface drainage. The project also included an eight-foot wide multi-use pedestrian / bike path, associated decorative lighting, and landscaping.</p>
<p>08/15 - 01/19</p>	<p>Intersection Improvements at Williams Boulevard & Airline Drive, Kenner, LA Responsible for civil engineering services including roadway geometric design and the design of pedestrian improvements that comply with ADA requirements. The project, which aimed to improve pedestrian access to an intersection, followed LADOTD'S standard plan format and met all LADOTD requirements.</p>

16. Staff Experience:


Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BKI BURK-KLEINPETER, INC.			
Name	Henry M. Picard, III, PE, PLS	Years of experience with this firm/employer	32
Title	Civil Engineer	Years of experience with other firm(s)/employer(s)	9
Degree(s) / Years / Specialization	Bachelor of Science/1981/Civil Engineering		
Active registration number / state / expiration date	PE 22289 / LA / 03-31-2025 ; PLS 4736 / LA / 03-31-2025		
Year registered	PE: 1986/ PLS: 1994	Discipline	Professional Engineer / Professional Land Surveyor
Contract role(s) / brief description of responsibilities <i>Civil engineer to provide civil engineering oversight as engineer responsible charge of road design and hydraulic design.</i> MPR #3			
<p>Mr. Picard is a Senior Vice President at BKI with 37 years of professional engineering experience. He is in charge of project management, hydraulics, and traffic engineering, with responsibilities including schedules, staff, budgets, technical review and account management. He has provided professional consulting services as Project Manager or Project Engineer on numerous roadway, transportation, rail, drainage and flood control, and hydraulic engineering projects. Mr. Picard holds a Bachelor of Science in Civil Engineering; is a Registered Professional Engineer in Louisiana, and Alabama; and is a Registered Professional Land Surveyor in Louisiana. He is an active member of the American Society of Civil Engineers and the Society of American Military Engineers.</p> <p>Highlights: LADOTD Requirements and Procedures, AASHTO Codes and Standards, CDBG Requirements, HMGP Requirements, FEMA Regulations, Project Management Requirements, OA/QC, Cost Reimbursements, Land Survey Expertise</p>			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/14 - 07/24 (est) Project in Section 17	Peters Road Bridge and Extension Peters Road Bridge and Extension (SPNs H.008068, H.008069, 008244), Plaquemines and Jefferson Parishes, LA Performed hydraulic and drainage design for phase 1 of the project including culvert analysis and ditch grades. Provided QA/QC for phase II roadway drainage design on a new fixed, high level bridge and approach roadways across the Intracoastal Waterway. Coordinated with Jefferson Parish drainage for type, size, location, and construction sequencing of the box culvert to maintain flow in the Murphy Canal at all times during construction		
07/14 - 01/24 (est) Project in Section 17	Causeway Boulevard (LA 3046) / Earhart Expressway (LA 3139) Interchange - SPN H.002861, Metairie, LA Hydraulic Engineer for the new interchange between Earhart Expressway and Causeway Boulevard in Jefferson Parish. Providing drainage design oversight and mentoring of younger engineers for roadway drainage.		

<p>08/20 - Ongoing</p> <p>Project in Section 17</p>	<p>Rural Bridge Replacement Initiative Phase I & II, Various Parishes, LA Principal provided QA/QC for the redesign, removal, and reconstruction of 33 bridges on the State Highway system over 16 concurrent contracts, including NEPA Compliance, surveys, real estate, hydraulic analysis (including bridge scour), and design of bridges and roadways. Bridges Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997 For phase II, Provided project quality control and quality assurance and guidance for the design and complete reconstruction for 34 bridge structures in the State Highway system for Districts 05,08, and 58. Bridges Included: H.014242.5, H.014243.5, H.014245.5, H.014246, H.014247.5, H.4248.5, H.014249.5, H.0142450.5, H.014268.5</p>
<p>03/15 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass, Mandeville, LA Provided project management and engineering guidance for the preparation of line and grade studies, preliminary and final plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, construction sequence, and cross sections for 3.5 miles of roadway, a multi-use path, and two roundabouts.</p>
<p>04/18 - 03/21</p> <p>Project in Section 17</p>	<p>Parish Rd 929 at Braud Rd Roundabout, Ascension Parish, LA Project Principal provided QA/QC for upgrading the intersection from a four-way stop to a roundabout. The two-lane roundabout design included a dedicated left turn lane. The project also included drainage and lighting improvements, engineer's construction cost estimate, phasing and detour plan, coordination of utility relocations, and coordination of right-of-way acquisition.</p>
<p>12/13 - 09/19</p>	<p>Multiple Bridge Replacements: Bob Pettit Road Bridge and Claycut Road Bridge, Baton Rouge, LA Principal provided QA/QC for the replacement of a bridge on Bob Pettit Road over Bayou Fountain and Claycut Road over Dawson Creek. The bridges, precast concrete slab span structures each designed for at least two lanes of traffic with two six-foot sidewalks, were designed in accordance with LRFD. LADOTD standards, references, manuals, and format requirements were used for consistency and convenience.</p>
<p>12/09 - 12/11</p>	<p>I-12 and US Highway 11 Interchange Improvements and Ramp Widening Project (SPN 018-04-0046 & 454-04-0078), St. Tammany Parish, LA Project manager and lead engineer for preparation of construction documents for improvements to the I-12 and US Highway 11 Interchange including topographic and property boundary surveys and right-of-way maps. Performed engineering for geometric design, horizontal and vertical alignment, drainage, paving, striping, signage plan, sequence of construction, quantity estimates and three signalized intersections. Performed design of signal improvements involved the following: Developed construction drawings and specifications for traffic signal equipment layouts, controller timings, phasing, and cost estimates for the LADOTD.</p>
<p>03/01 - 04/10</p>	<p>I-10 Causeway Interchange, Metairie, LA Civil Engineer for signal plans to replace the outdated cloverleaf interchange with a semi-directional interchange. Mr. Picard was responsible for the signal designs along with coordination with Jefferson Parish on parish owned signals at Causeway and Veterans.</p>
<p>03/02 - 03/03</p>	<p>South Choctaw Drive Road Improvements, Baton Rouge, LA Project Manager and lead engineer for traffic analysis and the preparation of construction drawings for the widening from two lanes to four lanes on the South Choctaw Drive Extension from Flannery Road to Florida Boulevard. The analysis included hose and manual traffic counts, intersection analysis, corridor analysis, and recommendations for roadway corridor lane geometry and signal lane geometry. Lead Engineer for the preparation of construction drawings included horizontal and vertical geometry, paving, grading, drainage, striping, sequence of construction, utility design and construction plans.</p>

16. Staff Experience:

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Firm employed by: BKI BURK-KLEINPETER, INC.				
Name	David E. Boyd, PE	Years of experience with this firm/employer		17
Title	Civil Engineer	Years of experience with other firm(s)/employer(s)		2
Degree(s) / Years / Specialization	Bachelor of Science/2004/Civil Engineering			
Active registration number / state / expiration date		PE 35510 / LA / 09-30-2024		
Year registered	PE: 2010	Discipline	Professional Engineer / Professional Land Surveyor	
<p>Contract role(s) / brief description of responsibilities <i>Engineer to provide hydraulic & hydrologic design on civil engineering services.</i></p> <p>Mr. Boyd is Vice President of the Civil Engineering Division. He has 19 years of experience in Hydraulic, roadway design and project management specializing in hydraulic design, project plans and specifications, design review and construction services. Worked on numerous bridge and roadway projects to Cities, Parishes and LADOTD. Mr. Boyd is proficient in USACE HEC RAS hydraulic modeling software and ArcGIS. He has analyzed bridge scour and culvert design throughout the state of Louisiana. In addition. Mr. Boyd has completed design documents, construction administration and project management for multiple roadway projects.</p> <p>Highlights: LADOTD Requirements and Procedures, AASHTO Codes and Standards, CDBG Requirements, HMGP Requirements, FEMA Regulations, Project Management Requirements, OA/QC, Cost Reimbursements, Land Survey Expertise</p>				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/09 - 07/24 (est) Project in Section 17	<p>Peters Road Bridge and Extension - Plaquemines and Jefferson Parishes, LA - SPN H.008068, SPN H.008069, SPN H.008244</p> <p>Civil – Hydraulic Engineer responsible for determining the hydraulics for the construction High Level Bridge over the Intercoastal Canal in Belle Chasse, Louisiana. Bridge pier and bent configurations were determined by performing bridge scour computations in the United States Army Corps of Engineers (USACE) HEC RAS-Unsteady State hydraulic model titled East of Harvey Canal (EOH) SELA Flood Control Projects.</p>			
07/14 - 01/24 (est) Project in Section 17	<p>Causeway Boulevard (LA 3046) / Earhart Expressway (LA 3139) Interchange - SPN H.002861, Metairie, LA</p> <p>Hydraulic Engineer the new interchange between Earhart Expressway and Causeway Boulevard in Jefferson Parish. Providing drainage design oversight and mentoring of younger engineers for roadway drainage. BKI’s services also included roadway lighting design.</p>			

<p>08/20 - Ongoing</p> <p>Project in Section 17</p>	<p>Rural Bridges Replacement Initiative Phase I & Phase II, Various Parishes, LA</p> <p>Oversaw and provided QA/QC for the hydrologic-runoff calculations using LaDOTD's Hydraulic Software (Hydr2009) HYDR1110, HYDR1130 and HYDR2130. Oversaw and provided QA/QC for Hydraulic calculations using Hydraulic Engineering Center – River Analysis System (HEC-RAS). Maximum Water Surface Elevations for the 25, 50, 100 Year Events were determined to set the low chord of the bridges. HEC RAS was also used to compute the bridge scour for the pier configurations (types, sizes and quantities) of each bridge. This hydrologic and hydraulic data was used for the redesign, removal and reconstruction of 33 LaDOTD bridges.</p> <p>Bridges Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997, H.014242.5, H.014243.5, H.014245.5, H.014246, H.014247.5, H.4248.5, H.014249.5, H.0142450.5, H.014268.5</p>
<p>03/15 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass Project - Mandeville, LA</p> <p>Civil Engineer provided project management and guidance as well as hydraulic engineering services for the preparation of line and grade studies. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections. The project included 3.5 miles of roadway, a multi-use path, and two roundabouts.</p>
<p>04/18 - 03/21</p> <p>Project in Section 17</p>	<p>Parish Rd 929 at Braud Rd Roundabout, Ascension Parish, LA</p> <p>Project Manager for the design of a single lane roundabout at Parish Road 929 and Braud Road. The project is part of the MOVE ASCENSION program to improve traffic conditions across the parish. Although this was an Ascension Parish program, for consistency and convenience, LADOTD standards, references, manuals, and format requirements were used.</p>
<p>12/13 - Ongoing</p>	<p>Multiple Bridge Replacements: Bob Pettit Road Bridge and Claycut Road Bridge - Baton Rouge, LA</p> <p>Calculated bridge scour using HEC-HMS and HEC-RAS software for the replacement of a bridge on Bob Pettit Road over Bayou Fountain and Claycut Road over Dawson Creek. These were concrete slab spans on pile bents (LRFD). The bridges were not to interfere with current hydraulics of the canal.</p>
<p>12/17 - Ongoing</p>	<p>LA 466 / 5th Street Improvements - Gretna, LA</p> <p>Civil Engineer provided project management and design for drainage, roadway, and streetscape improvements to the 5th Street corridor between Richard Street and Franklin Avenue.</p>
<p>08/17 - 0 1/18</p>	<p>Stumpf Boulevard Drainage Improvements - Gretna, LA</p> <p>City Engineer / City of Gretna liaison for the installation of a 72-inch drainage pipe in the Stumpf Boulevard Canal. The pipe would provide sufficient capacity to convey storm water while addressing bank erosion. Adjacent travel lanes along Stumpf Boulevard were replaced after the base failed and roadway surface settled or warped.</p>
<p>10/11 - 12/14</p>	<p>I-10 / Williams Boulevard Interchange Pedestrian and Lighting Improvements, Kenner, LA</p> <p>Civil Engineer prepared construction documents conforming to LADOTD standards for new paved and lighted walkway through the Interstate 10-Williams Boulevard interchange as a safety enhancement project</p>
<p>04/13 - 12/13</p>	<p>Belle Chasse Area Master Drainage Plan - Plaquemines Parish, LA</p> <p>Provided civil engineering services for the preparation of a hydrologic and hydraulic study. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.</p>


16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BKI BURK-KLEINPETER, INC.					
Name	Timothy Koenig, PE		Years of experience with this firm/employer		19
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)		2
Degree(s) / Years / Specialization		Bachelor of Science / 2004 / Civil Engineering Bachelor of Science / 1998 / Microbiology			
Active registration number / state / expiration date			35079 / LA / 3-31-2024		
Year registered	2009	Discipline	Professional Engineer		
Contract role(s) / brief description of responsibilities <i>Civil Engineer to provide engineering design services for roads on this project.</i>					
Associate Civil Engineer having joined BKI in 2004 after receiving his Bachelor of Science degree in Civil Engineering. Mr. Koenig has 18 years of experience in civil design, project management and construction administration including roadway design, drainage design, site development, pedestrian facilities design, rail design, port infrastructure design, coordination of right of way acquisition, and permitting for public and private clients throughout the Gulf South region. In addition, he received his ATSSA Traffic Control Supervisor Refresher - LA training in 2023.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/15 - 12/24 (est) Project in Section 17	Mandeville By Pass Project, Mandeville, LA Prepared line and grade study, preliminary and final plans for 3.5 miles of new two lane roadway connecting LA 1088 and US 190 in St. Tammany Parish. Included design and preparation of typical sections, plan and profile sheets, geometric layout, drainage design, sequence of construction and cross sections. Also coordinated with utility companies and right of way acquisition. Project included 3.5 miles of roadway, a 10' wide multi-use path, and the design of a roundabout intersection at US 190.				
04/18 - 03/21 Project in Section 17	Parish Rd 929 at Braud Rd Roundabout, Ascension Parish, LA Prepared preliminary and final plans for upgrading intersection for 4-way stop to roundabout. The two-lane roundabout design included a dedicated left turn lane. The project required drainage improvements, phasing and detour plans, coordination of utility relocations, and coordination of right-of-way acquisition.				
05/15 - 12/19	Wardline Road Drainage Improvements, Hammond, LA Provided design and plan preparation services for drainage improvements that aimed to reduce or eliminate flooding in the Wardline Road area from a moderate (10-year frequency) rainfall event. Tasks included a hydraulic and hydrologic study, road design, storm drainage improvements design, and construction administration services.				
01/13 - 02/14	Mt. Airy/Garyville Road Relocations, St. John the Baptist Parish, LA Designed improvements to and closure of multiple rail crossings in the Mt. Airy/Garyville area. Produced final plan set that included typical sections, quantity table, plan and profile sheets, cross sections, and drainage improvements. Also prepared project specifications and a project cost estimate. BKI provided preliminary plans, final plans, specification preparation, bidding assistance, construction administration, engineering during construction, and periodic site visits. The project also includes the preparation of Coastal Use and Department of the Army Permits				

16. Staff Experience:


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Firm employed by: BKI BURK-KLEINPETER, INC.			
Name	Rebecca J. Chopin, PE	Years of experience with this firm/employer	
Title	Civil Engineer	Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization	Bachelor of Science/2013/Civil Engineering		
Active registration number / state / expiration date	41841 / LA / 03-31-2024		
Year registered	2017	Discipline	Professional Engineer - Structural
Contract role(s) / brief description of responsibilities <i>Civil Engineer to provide bridge design services as outlined on this project.</i> MPR #4			
<p>Ms. Chopin is a Civil-Structural Engineer with over 10 years of experience in structural engineering & project management. She is a Registered Professional Engineer in Louisiana, Mississippi, and Alabama with expertise focused on bridge design, inspection, and rating in accordance with Load Resistance Factor Rating (LRFR) with an emphasis on LADOTD bridge design standards and procedures. She is proficient in LEAP Bridge Concrete, Mathcad, and MicroStation. Typical responsibilities include managing project teams and plan production on large scale roadway and bridge projects, preparing construction documents, leading CAD technicians and engineers, obtaining DOTD permits, creating cost estimates and bid specifications, generating bid tabulations, utility coordination, and construction administration. Ms. Chopin is a leader in the local engineering community and serves as an active member of the American Concrete Institute and past president in Louisiana (2019). She currently serves as the Louisiana Civil Engineering Conference and Show Chairwoman (2021-Present), hosting an annual convention of 500+ attendees. Ms. Chopin holds Louisiana ATSSA Traffic Control Supervisor and Traffic Control Technician certifications.</p>			
Highlights: LADOTD Requirements and Procedures, AASHTO Codes and Standards, Bridge Inspection Expertise, Load Resistance Factor Rating, Specialization in Concrete Structural Engineering Design			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/14 - 07/24 (est) Project in Section 17	Peters Road Bridge and Extension Phase II & III, Plaquemines Parish, LA Project Engineer and Bridge Design Team - Responsible for managing the design team, including communication with subconsultants, LADOTD, Jefferson, and Plaquemines Parish. Responsible for the bridge design of 3 bridges (2 simple, slab span bridges and 1 fixed, high-level bridge over the Intracoastal Waterway) in accordance with LADOTD and AASHTO codes and standards, including the design of concrete slab spans, pile bents, and hammerhead bents including cap, column, and foundation design. Responsibilities for both phases also include coordinating with CAD technicians on plan development for structural detail sheets, general bridge plans, super elevation diagrams, and foundation layout sheets as well as calculating bridge elevations and quantities, completing design reports, waivers, and exceptions, and coordination with LADOTD project managers. Project engineer responsible for splitting the Phase II plans into two separate phases as well as coordinating with a subconsultant on required ROW acquisitions.		

<p>08/14 - 01/24 (est)</p> <p>Project in Section 17</p>	<p>Earhart Expressway (LA 3139) Interchange / Causeway Blvd. (LA3046) (SPN H.002861), Jefferson Parish, LA Project Engineer and Bridge Design Team - Responsible for managing the design team, including communication with subconsultants and LADOTD. Responsibilities included completing a full inspection of existing bridge column bents and determining load carrying capabilities in accordance with LRFR as well as the structural design of multiple new ramps utilizing AASHTO girder spans. Designed several foundations, columns, and bent caps, as well as pile bents, bearing pads, and concrete decks. In addition, responsibilities include working with CAD techs on plan development of sheets such as structural details, general bridge plans, super-elevation diagrams, foundation layouts, and framing plans. Responsible for coordination with LADOTD project managers and utility coordinators on utility relocations, preparing project utility maps for meetings, and coordinating requirements of SUE work performed. Completed final plan cost estimates and technical specifications as well as bridge design waivers.</p>
<p>08/20 - Ongoing</p> <p>Project in Section 17</p>	<p>Rural Bridge Replacement Initiative Phase I , Various Parishes, LA Bridge Design Team - Project includes the redesign, removal, and reconstruction of 33 bridges on the State Highway system over 16 concurrent contracts. Specific tasks included the QC of bridge plan sheets including summary of estimated quantity tables, modifying LADOTD Special Detail sheets, and creating bridge design calculation packages according to the Bridge Design Evaluation Manual (BDEM – Revision 9). Bridges Included: H.013952, H.013956, H.013958, H.013959, H.013970, H.013997</p>
<p>03/15 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass Project, Mandeville, LA Bridge Design Team Lead - Completed bridge design and details for two single direction roadway bridges (simple slab spans) over Bayou Castine, including the design of the decks, intermediate bents, abutments, and approach slabs. Coordinated with Geotechnical Engineers on review of the geotechnical report. Collaborated with hydraulic engineers for the purpose of the hydraulic data table. Additional responsibilities included quantity summary tables, cost estimating, and writing technical specifications.</p>
<p>12/13 - 09/19</p>	<p>Multiple Bridges - Bob Pettit Road & Claycut Road Bridge Replacement, Baton Rouge, LA Bridge Design Team – Provided QC for the Bob Pettit Road Bridge over Bayou Fountain. The simple span bridge consists of concrete slab spans on pile bents and was designed in accordance with LRFD. Responsibilities included checking drawings, calculations, and quantities, as well as assembling the final Engineer’s cost estimate and structural calculation book.</p>
<p>05/22 - Ongoing</p>	<p>Linwood Avenue Reconstruction Phase IV, Shreveport, LA Project Manager - Responsible for communication with the City of Shreveport on project schedules and progress for an LPA project which includes the reconstruction of Linwood Avenue, a four-lane road, between W 84th Street and W 70th Street. Oversee and advise the design engineers and drafting team on all deliverables including LADOTD design reports, waivers, and exceptions. Responsible for ensuring that all QA/QC processes are met throughout the entirety of the project. Facilitate clear communication of project goals and expectations with subconsultants.</p>
<p>12/17 - Ongoing</p>	<p>LA 466 / 5th Street Improvements, Gretna, LA Engineer assisting the lead designer in the preparation of roadway plans and roadway drainage design for streetscape improvements to the 5th Street corridor between Richard Street and Franklin Avenue. The focus of the project is to provide maximum safety and accessibility for bicyclists and pedestrians within the existing right of way through a busy section of 5th Street in Gretna.</p>
<p>06/18 - Ongoing</p>	<p>Wolf Bay Bridge Final Design, Orange Beach, AL Bridge Design Team – Provided bridge design for a project connecting SR-161 across Wolf Bay to CR-95. The project will extend approximately 4.8 miles, with the bridge approximately 4,800 linear feet in length and surface streets approximately 3.9 miles long. Designed concrete bridge deck, prestressed concrete AASHTO girders, pile bents, and column bents.</p>

16. Staff Experience:


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Firm employed by: BKI BURK-KLEINPETER, INC.					
Name	Rene A. Chopin, IV, PE		Years of experience with this firm/employer		11
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)		0
Degree(s) / Years / Specialization		Bachelor of Science/2013/Civil Engineering			
Active registration number / state / expiration date			42349 / LA / 09-30-2024		
Year registered	2018	Discipline	Professional Engineer - Civil		
<p>Contract role(s) / brief description of responsibilities <i>Engineer to provide hydraulic & hydrologic design on civil engineering services.</i></p> <p>Mr. Chopin is a Registered Professional Civil Engineer in Louisiana with a focus on Hydraulic and Hydrologic Engineering. He joined BKI full time in 2013 after receiving his Bachelor of Science in Civil Engineering and serving as an intern for two years. His experience includes the use of the Department of Transportation and Development HYDR 2009, HEC-HMS and HEC-RAS programs to calculate drainage flows and pipe capacities. He has worked on various projects such as roadway and drainage improvement projects, master drainage plans, levee and stormwater prevention projects, and harbor improvements including dredging. His responsibilities have included performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration. He is a Member of the American Society of Civil Engineers and the Society of Military Engineers. In addition, he received his ATSSA Traffic Control Supervisor Refresher - LA training in 2023.</p> <p>Highlights: LADOTD Requirements and Procedures</p>					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/14 - 07/24 (est) Project in Section 17	<p>Peters Road Bridge and Extension Phase II & III, Plaquemines Parish, LA Generated drainage maps, performed calculations to determine runoff, and sized drainage structures for the extension of approach roadways across the Intracoastal Waterway. Prepared the hydraulic calculations in accordance with LADOTD’s Hydraulic Manual.</p>				
08/14 - 01/24 (est) Project in Section 17	<p>Earhart Expressway (LA 3139) Interchange / Causeway Blvd. (LA3046) (SPN H.002861), Jefferson Parish, LA Provided civil engineering services for the design of a new interchange between Causeway Boulevard (LA 3046) and Earhart Expressway (LA3139). Mr. Chopin analyzed the existing drainage network and designed the drainage for the new interchange, in accordance with LADOTD’s Hydraulic Manual.</p>				
08/20 - Ongoing Project in Section 17	<p>Rural Bridge Replacement Initiative Phase I , Various Parishes, LA Civil Engineer provided drainage design for the redesign, removal, and reconstruction of 33 bridges on the State Highway system over 16 concurrent contracts. Bridges Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997</p>				

<p>03/15 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass Project, Mandeville, LA Provided hydraulic and hydrologic engineering for the preparation of line and grade studies including HEC-RAS analysis of existing and proposed crossing culverts and bridges. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections. The project included 3.5 miles of roadway, multi-use path, and two roundabouts. Prepared the hydraulic calculations for the drainage design in accordance with LADOTD's Hydraulics Manual.</p>
<p>04/18 - 03/21</p> <p>Project in Section 17</p>	<p>Parish Road 929 at Braud Road Roundabout, Ascension Parish, LA Civil Engineer provided drainage design for the construction of a roundabout interchange. Performed HEC-RAS analysis of concrete box culverts to replace existing bridges and facilitate the construction of the new interchange. Although this was an Ascension Parish program, for consistency and convenience, LADOTD standards, references, manuals, and format requirements were used.</p>
<p>11/20 - Ongoing</p>	<p>25th Street Canal Drainage Improvements Project, Gretna, LA Providing Hydraulic and Hydrologic engineering for alternate routing of stormwater runoff during high-intensity events for the 25th Street Canal subdivisions. This includes analyzing the existing system, providing recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations that would close flap gates to be installed on the current outfall pipes, and designing improvements within 25th Street Canal to handle the additional flow to feed the proposed 25th Street drainage pump station. In working with our Mechanical Department, we have developed a closed, pump-controlled system for the 25th Street subdivision that will alleviate flooding during high-intensity rainfalls.</p>
<p>11/21 - Ongoing</p>	<p>Bayou Paul Lane Ditch and Culvert Improvements Project, City of St. Gabriel, LA Project Manager providing oversight as well as performing hydraulic analyses using LaDOTD's Hydraulic Software, HydrWIN2009. Generating a cost estimate based on proposed improvements as well as creating construction documents and assisting in the bidding-advertising of the project. Will provide construction administration services and provide oversight of the resident inspection.</p>
<p>11/18 - 02/19</p>	<p>St. James Drainage GOHSEP Coordination - Master Drainage Plan, St. James Parish, LA, Ran calculations to check for deficient culvert capacities throughout St. James Parish. Input flows were calculated using the Rational Method and culverts evaluated based on headwater using the DOTD Hydr2009 and/or FHWA HY-8 programs. The results were tabulated in a report that included maps showing the location, condition, and status of the culverts. Deficient culverts were given a recommended size and material for replacement. This report was submitted to St. James Parish to be used as a master plan for driveway culvert replacements in the future. The report was also used by St. James Parish for submittal to GOHSEP seeking grants to assist in the construction of these new culverts. The culvert improvements would offer a total reduction in headwater throughout the Parish by removing restrictive flow conditions. The improvements would assist the Parish in exfiltrating storm water from localized rain events preventing flooding of homes and businesses.</p>

16. Staff Experience:


Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BKI BURK-KLEINPETER, INC.					
Name	Renee M. Poole, PE		Years of experience with this firm/employer		4
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)		0
Degree(s) / Years / Specialization		Bachelor of Science/2019/Civil and Environmental Engineering			
Active registration number / state / expiration date			PE.0047869 / LA / 09-30-2025		
Year registered	2023	Discipline	Professional Engineer		
Contract role(s) / brief description of responsibilities <i>Civil Engineer to provide hydraulic & hydrologic design on civil engineering services.</i>					
<p>Ms. Poole joined BKI after obtaining a degree in Civil and Environmental Engineering. She is proficient in MicroStation V8, InRoads, AutoCAD 2021, Civil3D, HEC-RAS, PC SWMM, Q-GIS, and HYDR-WIN. Her professional experience has focused on hydrologic and hydraulic analyses as well as drainage system improvements and includes full-reconstruction roadway improvement design. Ms. Poole serves as Recreation Committee Chair of the American Concrete Institute, Louisiana Chapter, and as an active Director for the Louisiana Civil Engineering Conference and Show, and is a member of the American Public Works Association. She served as President of the Society of Women Engineers' UNO student chapter, team facilitator of her senior capstone design project, and conference chair of both the ASCE and ACI student chapters. In addition, she received her ATSSA Traffic Control Technician and Supervisor - LA training in 2023.</p>					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/19 - 01/24 (est) Project in Section 17	Causeway Blvd. (LA3046) / Earhart Expressway (LA 3139) Interchange (H.002861) - Jefferson Parish, LA Designed the relocation of Jefferson Parish’s water and sewer mains for the new interchange between Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046) in Jefferson Parish. Handled roadway and drainage design changes due to bent relocations and DOTD comments in final plans, quantity changes, and roadway plan preparation.				
07/20 - Ongoing Project in Section 17	Rural Bridges Replacement Initiative Phase I & Phase II, Various Parishes, LA, Phase I completed the hydrologic, hydraulic and scour analyses for these 40+ bridge sites, both on- and off-system. Found the drainage area, hydrologic length, and slope using quad contour maps, LiDAR, or Q-GIS, and soil classification to calculate the existing channel’s flow. Cut cross sections of the channel. Created a HEC-RAS model to analyze the existing structure and channel. Worked with the roadway team to determine what type of structure would be best, a suitable low cord and length for the proposed bridge or allowable sized of the culvert. Created a new HEC-RAS model for the proposed bridge and the channel improvements. Used the HEC-RAS model to analyze the proposed scour. Created and completed the criteria and hydraulic reports for this project. Completed all hydrologic work, hydraulic work, and report for each site included in the project. Also, calculated the required size of any/all driveway and erosion culverts required on the site. For Phase II reviewed each site’s hydrologic & hydraulic engineering analysis and hydraulic criteria and design reports completed by subconsultant for complete reconstruction of multiple deficient bridges maintained by LA DOTD. Also, calculated the required size of any/all driveway and erosion culverts required on the site. Bridges Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997, H.014242.5, H.014243.5, H.014245.5, H.014246, H.014247.5, H.4248.5, H.014249.5, H.0142450.5, H.014268.5				

<p>05/19 - 12/24 (est)</p> <p>Project in Section 17</p>	<p>Mandeville Bypass Project - Mandeville, LA Project included 3.5 miles of new roadway, a multi-use path, the design of 2 roundabouts and a 140 ft. span bridge crossing Bayou Castine. Providing civil engineering services and drainage calculations for the preparation of line and grade studies, and to size the required ditches, culvert crossings, and all driveway and erosion culverts. Completed the drainage calculations and design for two roundabouts. Ran scour analysis on proposed bridge in existing HEC-RAS model provided by the owner. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections.</p>
<p>05/22 - Ongoing</p>	<p>Linwood Avenue Reconstruction Phase IV Created typical sections to adhere to the City of Shreveport's wishes as well as DOTD standards. Created roadway geometry and baseline. Completed the required submittals in preliminary and currently working towards 60% final plan submittal. Created cost estimate and technical specifications, addressed and responded to all comments from both DOTD and the owner, supplied all required items for each submittal package, and reviewed and advised on the following: quantities, markups, design report, and design waivers and exceptions prepared by intern.</p>
<p>05/19 - Ongoing</p>	<p>LA 466 / 5th Street Improvements - Gretna, LA Analyzed the existing drainage system including all inputs from other systems, conducted a site visit to field verify unclear information from the survey, designed proposed drainage layout and used HYDR6000 and HYDR6020 to perform necessary calculations. Revised typical sections to fit both JP, Gretna, and DOTD standards. Designing the PGL and cross-sections in Civil3D. Coordinated with the landscape architect. Has completed technical specifications, design reports, design waivers and exceptions, and all the required submittals in preliminary and 60% final plans. Held the plan-in-hand meeting and addressed all necessary comments and required items for each submittal package. Created additional action item's cost estimates and met with Owner to discuss available options. Held a utility walk-through with Atmos, Entergy, and AT&T.</p>
<p>11/20 - Ongoing</p>	<p>25th Street Canal Drainage Improvements Project - Gretna, LA Analyzed the existing drainage system throughout the entire neighborhood to determine where to add equalizer pipes, how and where to reroute the flow towards the proposed pump station in a flooding event, and how to overall improve the drainage system. Began preliminary drainage design and completed a conceptual submittal of our preliminary plans for FEMA to review.</p>
<p>05/19 - 12/21</p>	<p>Wolf Bay Bridge Final Design - Orange Beach, AL Responsible for supporting the design of the bridge's main span and approaches for a project connecting SR-161 across Wolf Bay to CR-95. Ms. Poole is reviewing storm surge assessment and creating the bridge and bay model in HEC-RAS modeling software to determine the bridge scour. The project will extend approximately 4.8 miles, with the bridge approximately 4,800 linear feet in length and surface streets approximately 3.9 miles long.</p>



16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: BK BURK-KLEINPETER, INC.					
Name	Bailee L. Hurm, EI		Years of experience with this firm/employer		4
Title	Civil Engineer Intern		Years of experience with other firm(s)/employer(s)		0
Degree(s) / Years / Specialization		Bachelor of Science/2019/Civil and Environmental Engineering			
Active registration number / state / expiration date			EI.0034435 / LA / 09-30-2024		
Year registered	2020	Discipline	Engineer Intern		
<p>Contract role(s) / brief description of responsibilities <i>Engineer intern to provide roadway design and environmental permitting.</i></p> <p>Ms. Hurm is a Civil and Environmental Engineering graduate of the University of New Orleans (UNO). She has experience in MicroStation and InRoads, performing geometric, roadway, grading, and drainage design tasks. Ms. Hurm has worked on several projects in which she provides complete construction plan sets including typical sections, plan-profile sheets, geometric details, cross sections, construction sequencing, cost estimates, and specifications. Experienced in DOTD, AASHTO, and FHWA design criteria. Well-versed in the DOTD Minimum Design Guidelines and writing design exception reports as well as performing crash study analysis to accompany the reports. She is currently an active member of the American Society of Civil Engineers and the American Concrete Institute. The ASCE New Orleans Branch awarded Ms. Hurm the Distinguished Civil Engineer award in Spring 2019. Her previous work experience includes as an UNO engineering tutor to college students and as an engineering intern at Gaea Consultants, LLC, and Keystone Engineering, Inc. In addition, she received her ATSSA Traffic Control Technician and Supervisor - LA training in 2023</p>					
Experience dates (mm/yy–mm/yy)	<p>Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).</p>				
<p>04/11 - 01/24 (est)</p> <p>Project in Section 17</p>	<p>Earhart Expressway (LA 3139) Interchange / Causeway Blvd. (LA3046) (SPN H.002861), Jefferson Parish, LA Aided in roadway and structural design and plan development for the new interchange between Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046) in Jefferson Parish. This project includes a full interchange providing all directions of movement between the two corridors. The interchange fit within a very compact footprint with very unique geometric challenges. The interchange features seven new ramps which include at-grade roadways and bridge structures.</p>				

<p>07/20 - Ongoing</p> <p>Project in Section 17</p>	<p>Rural Bridges Replacement Initiative Phase I & Phase II, Various Parishes, LA, For phase I, provided geometric, roadway, and drainage design elements as part of the construction document development to replace 33 bridges on the State Highway System and local roadways in Districts 03, 07, 61, and 62. Bridges Included: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997 For phase II, provided civil engineering design services for the complete reconstruction of multiple deficient bridges maintained by LA DOTD in the State Highway system for Districts 05,08, and 58. Performed preliminary roadway, geometric, grading, and drainage designs utilizing InRoads and MicroStation. Design elements include, but not limited to, horizontal and vertical geometry design applying stopping sight distance criteria, superelevation design, ditch design, and guard rail design. Provided preliminary and final construction drawings including typical sections, plan-profiles, geometric details, detour maps, construction sequencing, and cross sections. Provided cost estimates including quantity calculations and tables. Performed crash study analyses using the Highway Safety Manual spreadsheet. Provided design reports and design exception reports per DOTD Minimum Design Guidelines. Bridges Included: H.014242.5, H.014243.5, H.014245.5, H.014246, H.014247.5, H.4248.5, H.014249.5, H.0142450.5, H.014268.5</p>
<p>01/20 - Ongoing</p>	<p>Plum Orchard Group C RR136 (FRC) and Group D RR137 (FRC), New Orleans, LA Completed a full drainage analysis including all necessary calculations, assumptions, and reports. Created roadway profiles to meet city standards and tie-in to the existing locations at multiple intersections and driveways. Created the complete sub-surface network analysis, for water, sewer, and drainage. Worked with the city to determine the final scope of the project. Also, put together the project specifications, cost estimate, and scoping report. Helped to complete the preliminary design, including 4 full submittals.</p>
<p>01/20 - Ongoing</p>	<p>West End Group F (RR198), New Orleans, LA Completed a full drainage analysis including all necessary calculations, assumptions, and reports. Created roadway profiles to meet city standards and tie-in to the existing locations at multiple intersections and driveways. Created the complete sub-surface network analysis, for water, sewer, and drainage. Worked with the city to determine the final scope of the project. Also, put together the project specifications, cost estimate, and scoping report. Helped to complete the preliminary design, including 4 full submittals.</p>

16. Staff Experience:

Firm employed by Urban Systems, Inc.			
 <p>Alison C. Michel, P.E., PTOE, PTP, RSP_{2i} President/Transportation Engineer MPR #6</p> 	Years of relevant experience with this employer		22
	Years of relevant experience with other employer(s)		3
Degree(s) / Years / Specialization		BS / 1997 / Civil Engineering	
Active registration number / state / expiration date		30261 / Louisiana / 03/31/2025	
Year registered	2002	Discipline	Professional Engineer: Civil Engineering
Active registration number / state / expiration date		1023 / Louisiana / 11/06/2026	
Year registered	2002/2017	Discipline	Professional Traffic Operations Engineering/ No.1023 / 11/06/2026
Active registration number / state / expiration date		Professional Transportation Planner /No. 626/ 11/20/2026	
Year registered	2023	Discipline	Road Safety Professional 1/ No. 115 / 12/2024
Active registration number / state / expiration date		Road Safety Professional 2i / No. 148/ 03/2026	
Contract role(s) / brief description of responsibilities		Professional In Charge of Traffic Engineering Tasks	
<p>Ms. Michel has over twenty-five (25) years' experience in Traffic Engineering and Transportation Planning. Ms. Michel has a wide array of experience with transportation studies including traffic impact, safety, corridor, feasibility/Stage 0, environmental/Stage 1, multi-modal and transit facilities. She has experience in the timing of coordinated signal systems and progression analyses. She is proficient in microscopic simulation modeling using VISSIM and CORSIM and also in analysis programs such as Highway Capacity Software (HCS), Tru-Traffic and SIDRA. She has extensive design experience that includes permanent and temporary traffic signals, traffic control devices for work zones, intelligent transportation systems, signage and striping. MPR #6</p>			
11/08-11/12	<p><u>Interstate 10 at LA 44 and LA 44 at Edenborne Pkwy Traffic Signal Design</u></p> <p>Ms. Michel was the Principal in Charge responsible for the management and QA-QC of the project to design the new traffic signals for the River Parish Community College (RPCC) based development in Gonzales, LA. The design included interconnection between the signals and connected into LADOTD's mainline fiber network. She coordinated between the developer and the LADOTD District Traffic Engineer to obtain a permit for the construction. This included collaborating with the LADOTD Traffic Engineering Management section on use of the latest TSI forms and with the LADOTD Intelligent Transportation System office regarding tying into the mainline fiber optic communication network along Interstate 10.</p>		
01/14-08/19	<p><u>US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build Project, Lafayette Parish, LA (LADOTD)</u></p> <p>Ms. Michel was a member of the key personnel for this design-build project as the Traffic Engineer. The project included converting US 90 to a controlled access facility by converting at-grade intersections to an interchange in Lafayette, LA. The bridge structure had to span the intersection and a railroad. She supervised the design and analysis and performed QA-QC for temporary and permanent signal plans, permanent signage plans, temporary traffic control plans and the Transportation Management Plan. Signal plans were prepared using the DOTD's latest TSI format. Analysis included developing design hour volumes for the design year and modeling signals in Synchro. Phasing and timing were developed for both permanent and temporary signal operation.</p>		

01/06-06/07	<p><u>Intersection Improvements Livingston & St. John Parishes</u></p> <p>Ms. Michel was project manager for intersection signal design for intersections on US 190, LA 3282 and LA 1030, where signalization was added or modified. A left turn lane was added to the eastbound approach of LA 64 and the westbound approach of LA 1026. A left turn lane was added on the eastbound LA 44 approach and separate right turn lanes on the LA 44 westbound and LA 3223 southbound approach. The signage and striping were designed by Ms. Michel to incorporate the added lanes.</p>
10/10- current	<p><u>Pecue Lane / I-10 Interchange Environmental Assessment</u></p> <p>Ms. Michel was the Principal in Charge for the Traffic Engineering tasks as a sub-consultant for the Pecue Lane / I-10 Interchange project. She managed the staff, communicated with clients and performed the technical QA/QC for each phase. The phases included preparing a traffic study for the <i>Stage 1 Environmental Assessment</i>, updating the <i>Interchange Justification Report</i> for submittal to FHWA, preparing a Transportation Management Plan, and designing traffic signals using the LADOTD TSI format. At the time of the design, this was to be Louisiana's first Diverging Diamond Interchange (DDI). Ms. Michel worked closely with DOTD and Baton Rouge City-Parish to develop signal phasing and timing for the DDI using Highway Capacity Software and VISSIM. The design of the signal at the intersection of Pecue Ln at Rieger Rd was also reviewed by Ms. Michel. Her familiarity with Highway Capacity Software, Transcad, CORSIM and VISSIM was critically important during the various phases of the project. Ms. Michel reviewed the construction cost estimates for each signal. The last phase of this project will be construction administration.</p>
10/15-09/16	<p><u>Ascension Parish TIAs</u></p> <p>Ms. Michel has been conducting Traffic Impact Analyses (TIA) for proposed developments in Ascension Parish for more than twenty years. TIAs for the Ascension Parish School Board included K-5 Bluff Road, K-5 Emory Ficlin Road and Central Primary. Under Ms. Michel's direction, USI staff prepared TIAs for East Creek Villas, Mosaic Faustina Facility Expansion, Serenity Oaks, Eagles Landing Subdivision, Megan's Lake Subdivision, Mossy Oaks Subdivision, Prairieville C-Store and many others. She is familiar with the roadway network in Ascension Parish, LADOTD Traffic Impact and Access Management Policies, and preparing plans in LADOTD format. Many of these projects included designing improvements for impact mitigation. She also supervised two projects for Ascension Parish to review their Traffic Impact Policy and prepare updates.</p>
01/08-06/08	<p><u>Tanger Boulevard Traffic Signal Design and Modification / Tanger Outlet Mall Parking Lot Re-Design</u></p> <p>For Tanger Properties regarding the Tanger Outlet Mall, Ms. Michel, conducted a traffic study, prepared a parking lot re-design and developed traffic signal design and modification plans for Tanger Boulevard at LA 30/Nicholson Drive in Gonzales, LA. Modifications were required to accommodate the new triple left turn geometry, including the removal and replacement of a mast arm. She performed capacity and progression analysis to determine the optimum phasing and timing for the subject signal and the coordinated signal plans to provide progression between the signal and the signals at the Interstate 10 ramps. Design sheets included striping layout, traffic signal layout, traffic signal wiring diagram, coordinated signal timing, and standard plans and details.</p>
02/20- current	<p><u>LA 23: Belle Chasse Bridge & Tunnel</u></p> <p>Ms. Michel is managing USI's tasks for Owner Verification services focused on reviewing design plans for traffic related submittals from the design-builder. These submittals included capacity analysis, plans for traffic signals, signage and striping. Ms. Michel conducted Quality Assurance/Quality Control reviews to confirm adherence with LADOTD standards and the Manual of Uniform Traffic Control. During the construction, Ms. Michel may provide support by reviewing Traffic Control Devices Plans for proposed lane closures, detours and advanced warning signage in Plaquemines Parish, LA .</p>

Firm employed by **Urban Systems, Inc.**



Nicole Stewart, P.E., PTOE
Vice President / Transportation Engineer





Years of relevant experience with this employer	19
Years of relevant experience with other employer(s)	1.5

Degree(s) / Years / Specialization		BS / 1997 / Civil Engineering	
Active registration number / state / expiration date		34750 / Louisiana / 09/30/2025	
Year registered	2009	Discipline	Professional Engineer: Civil Engineering
Active registration number / state / expiration date		2923 / Louisiana / 08/14/2024	
Year registered	2012	Discipline	Professional Traffic Operations Engineering
Contract role(s) / brief description of responsibilities		Traffic Engineering/Striping signage TCDP & TMP	
		<p>Ms. Stewart has nineteen (19) years of experience in Traffic and Transportation Engineering and is a certified Traffic Control Design Specialist. Ms. Stewart has extensive experience in preparing Transportation Management Plans and site-specific traffic control devices plans for every possible environment. This includes closing downtown streets with bike lanes and sidewalks, suburban road closures on multilane highways, and rural road closures requiring extensive detours as well as ramp and interstate closures, both intermittent and long term. Ms. Stewart has designed numerous traffic signals with and without pedestrian accommodations. She has conducted safety studies for public and private clients to improve pedestrian mobility and safety in areas with high volumes of pedestrian activity. Ms. Stewart has experience in signal design and timing of coordinated systems for LADOTD. She has experience using Highway Capacity Software (HCS), Synchro, and SIDRA.</p>	
01/06-04/09	<p><u>Ryan Street at Prien Lake Road Intersection Improvements</u> Ms. Stewart prepared the design plans for roadway modifications and traffic signal upgrade in Lake Charles, LA. The turn lanes on both Ryan Street and Prien Lake Road had to be designed within limited Right of Way. Modifications to existing subsurface drainage were included. The construction documents were prepared per LADOTD standards. Ms. Stewart prepared an opinion of probable cost based on LADOTD pay items. The intersection improvements were successfully constructed.</p>		
04/08-11/10	<p><u>LA 431 Corridor Stage 0 Traffic Study</u> Ms. Stewart led the efforts as the engineer responsible for the safety analysis in Ascension Parish. The primary focus of the study was to identify the causes of the high number of roadway departures on LA 431 between LA 42 at US 61. Improvements were identified and analyzed for the eight major intersections within the study area. After conducting a review of detailed accident reports, speed studies and intersection analysis, recommendations included converting the LA 431 at LA 42 intersections to a roundabout with lighting to reduce nighttime collisions. The roundabout was successfully constructed.</p>		
02/15-06/16	<p><u>Bridge Preventative Maintenance District 61</u> Ms. Stewart was the principal in charge for Traffic Management Plans (TMP) for bridge replacement and repairs for various locations in Louisiana. This included developing various levels of TMP's based on LADOTD EDSM guidelines. Tasks included conducting capacity analysis,</p>		

	<p>safety analysis, detour analysis and developing proposed mitigations where applicable. For the reconstruction of the LA 1 bridge over the Intracoastal Waterway, a detailed Level 3 TMP was prepared. For this TMP, detailed work zone impact management strategies were developed to help minimize the project's impact on mobility.</p>
04/10-08/11	<p><u>LA 447 and I-12 Interchange Stage 0 Feasibility Traffic Study</u> This traffic study was conducted by Ms. Stewart along with other team members to develop and analyze seven (7) intersections along LA 447 in the vicinity of the I-12 interchange in Livingston Parish. Roundabouts were considered for three (3) of the intersections. Ms. Stewart managed the data collection efforts that included vehicle and traffic assignments forecasting based on Transcad model output classification, speed, and crash data. Ms. Stewart was responsible for the QA/QC of the traffic analyses using Highway Capacity Software, Plus and SIDRA. The roundabouts have since been designed and constructed by others.</p>
02/20-01/23	<p><u>US 190 at Northshore and Camp Villere Roundabouts</u> As the principal in charge, Ms. Stewart was responsible for the Quality Assurance/ Quality Control check of the temporary signal design plans that were required for the complex phasing of roundabout construction. Ms. Stewart also reviewed the preliminary Traffic Control Devices Plans prepared by the prime consultant and provided detailed comments to ensure that the plans conformed to the most recent edition of the MUTCD and the latest LADOTD Traffic Control Details.</p>
05/18-04/19	<p><u>TMP for I-10: West of 108 to I-210 Interchange: Rubblize and Overlay</u> As the lead engineer for this Traffic Management Plan, Ms. Stewart was responsible for the preparation of the safety analysis. She conducted the analysis per the guidelines set forth by LADOTD in <i>Guidelines for Crash Data Analysis</i> for this TMP in Lake Charles, LA. She conducted queue analysis to identify when lane closures would be permitted, identified the construction impact area and reviewed crash data for more than 350 collisions. Ms. Stewart identified trends and calculated crash rates and determined that the section of I-10 that was going to be rubblized had a crash rate that was higher than the statewide average and required mitigation.</p>
03/12-11/13	<p><u>MacArthur Interchange Signal Modification/ Signage & Striping / Traffic Control Devices Plans</u> The traffic study to evaluate the existing and projected operating conditions of the lower Westbank Expressway in Harvey, LA was prepared by Ms. Stewart. In the second phase, Ms. Stewart designed the new traffic signals for the interchange and neighboring intersections. She prepared the striping and signage plans to accommodate the ramp changes and prepared Traffic Control Devices Plans for the various stages of construction.</p>
02/20-05/21	<p><u>MDOT Low Cost Safety</u> As the principal in charge, Ms. Stewart developed a plan to visit and document existing conditions at one hundred and sixty-four (164) intersections in Mississippi, that had been identified by MDOT as needing either basic, intermediate or enhanced low-cost safety improvements. Once a strategic plan to visit each intersection was prepared, Ms. Stewart was one of two engineers to visit each site. She was responsible for design plans for each of the intersections she visited and performed QA/QC on those she did not design. Upgrades to signage and striping was designed for each intersection in accordance with MUTCD and MDOT standards. Ms. Stewart prepared a construction cost estimate and performed a quality assurance check of the final plans.</p>

Firm employed by **Urban Systems, Inc.**

 <p>Christine M. Darrah, P.E. Transportation Engineer</p> 	Years of relevant experience with this employer	9
	Years of relevant experience with other employer(s)	20

Degree(s) / Years / Specialization	BS / 1997 / Civil Engineering
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Active registration number / state / expiration date	28528 / Louisiana / 09/30/2025
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Year registered	1999	Discipline	Professional Engineer: Civil Engineering
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Contract role(s) / brief description of responsibilities	Traffic Engineer/Design Analysis and QA/QC
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Ms. Darrah has experience in Transportation/Civil Engineering including maintenance of traffic, roadway design plans and specifications, construction management and quality control. She is proficient in the use of AutoCAD, Adobe Illustrator, and Highway Capacity Software (HCS). She also has experience using MicroStation and TransCAD. She has experience developing temporary striping and signage plans for various conditions including lane closures, road closures, flagging operations and full detour plans. Ms. Darrah has prepared traffic signal design plans in LADOTD format. She has been involved in Operational Analysis, Data Collection, Safety Studies, Crash Data Analysis, and Bike/ Pedestrian accommodations. Her many years and wide variety of experiences are valuable during studies, design development and QA/QC.

11/20-02/23
US 190 at Northshore and Camp Villere Roundabouts
 As project engineer, Ms. Darrah oversaw the design of **permanent striping & signage plans** per **LADOTD standards and specifications**. She also designed temporary traffic signals that would be required during the multiple phases of roundabout construction. **A Level 2 Traffic Management Plan (TMP)** was also prepared. Ms. Darrah coordinated with the prime-consultant, St Tammany Parish, and LADOTD as needed.



06/21-10/21
MSY Entrance Road Capacity, North Terminal Louis Armstrong New Orleans International Airport
 Ms. Darrah prepared **temporary and permanent striping and signage plans** for the **widening** of the Southbound Airport Access Roadway, realignment of TNC Road, and widening of Northbound Airport Access Rd. As part of this project, she performed a comprehensive review of the adjacent Airport Access Rd Improvements included in the I-10/Loyola **Interchange** Improvement project. The proposed improvements required temporary closure of one lane of the airport **roundabout**, roundabout slip lane and right lane of Northbound Airport Access Rd.

03/18-05/18
Ascension Parish TIA Policy Update
 Ms. Darrah updated **Ascension Parish's** Traffic Impact Assessment Policy and created a Traffic Scoping Information form to assist the parish with reviews. She coordinated with Ascension Parish Administration, the Engineering Review Personnel, and Planning Commission on the updates to the policy and the parish ordinance.

03/14- current
Transmission Line Reconductoring Projects
 Ms. Darrah **designed numerous Traffic Control Devices Plans** for over 100 miles of transmission line replacement to meet US Army Corps of Engineers, LADOTD, parish and MUTCD standards in New Orleans, LA. The plans and specifications included, but were not

	<p>limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, and drums, etc.) for city street, highway, and interstate closures to facilitate traffic and oversized equipment safely and efficiently through the traffic control zones. Interstate projects included lane closures, intermittent full closures and rolling closures of the interstate system. Ms. Darrah assisted Entergy with permit preparation for work on state routes and road closure request with local entities.</p>
09/14-12/14	<p><u>SELA 26 Widening of Florida Ave. Canal Phase II and III</u> Ms. Darrah designed Traffic Control Devices Plans to meet US Army Corps of Engineers, LADOTD and MUTCD standards at Florida Avenue Canal in New Orleans, LA . The plans and specifications included, but were not limited to, the proper placement of temporary Traffic Control Devices (signs, barricades, drums, roadway markings, etc.) to facilitate traffic safely and efficiently through the traffic control zone. Haul routes were designated when necessary.</p>
04/18-01/22	<p><u>N. Peters Sidewalk Expansion</u> Ms. Darrah prepared construction drawings and specifications for the reconstruction of the sidewalk adjacent to Canal Place Shopping Center in the Downtown Development District (DDD) in New Orleans, LA. The plans included the geometric layout, grading, drainage, street lighting, striping and traffic control. The plans followed all DDD, MUTCD, ADA, New Orleans DPW and S&WB requirements. Ms. Darrah also provided Construction Management Services. This included field inspections, responding to inquiries and reviewing contractors invoices.</p>
06/22-10/22	<p><u>KCS Acadian Thruway</u> This project included lane closures and full closure of Acadian Thruway at the KCS bridge near the I-10 interchange in East Baton Rouge Parish. Ms. Darrah prepared the Traffic Control Devices Plans applying MUTCD and LADOTD standards for proper placement of traffic control devices. Additional project efforts included designing lane closures on an I-10 onramp for laydown access and police-controlled haul routes.</p>
06/14-01/17	<p><u>City Park Parking Lot Improvements</u> Ms. Darrah lent her expertise to design roadway and parking lot improvements in City Park, New Orleans, LA. Ms. Darrah provided QA-QC of the construction drawings and specifications to ensure accordance with all MUTCD, ADA, and New Orleans DPW requirements. Permeable asphalt pavement was used in the parking lot to incorporate green infrastructure in the project. The work consisted of geometric layout, grading, drainage, utility adjustments, striping and signage. Ms. Darrah also conducted construction administration services to ensure compliance with City of New Orleans DPW standards.</p>
07/22-08/22	<p><u>Mossville</u> As the project Manager Ms. Darrah designed Traffic Control Devices Plans for two rolling closures of I-10 and associated ramps in Lake Charles, LA for transmission line repairs. Efforts included designing plans for interstate closure and detours. Ms. Darrah coordinated with LADOTD and Calcasieu Parish in identifying optimal locations for Dynamic Message Signage.</p>

Firm employed by **Urban Systems, Inc.**

 <p>Matthew H. Morgan, P.E. Transportation Engineer</p> 	Years of relevant experience with this employer	12
	Years of relevant experience with other employer(s)	0

Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering
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Active registration number / state / expiration date	47060 / Louisiana / 03/31/2024
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Year registered	2022	Discipline	Professional Engineer: Civil Engineering
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Contract role(s) / brief description of responsibilities	Transportation Engineer
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Mr. Morgan has (12) twelve years' experience that ranges from starting as a Data Collection Manager while in college to an E.I and now a P.E. for Traffic Engineering/ Transportation planning projects. He has collected and delivered volume, class, and speed data to project managers using road tube equipment and camera systems. Mr. Morgan has been a team member for many projects that involved intersection, freeway, and highway analysis. He has assisted with Traffic Impact Studies, Traffic Control Device Plans, Interchange Modification/Justification Reports, Stage 0 Studies, Transportation Management Plans, and a variety of other studies. Mr. Morgan's design experience includes from traffic signals, signage and striping. He has been heavily involved in complete streets projects with a focus on bike/ pedestrian facilities. Morgan's wide range of experience in a short time will bring creativity and innovation to roadway projects when traditional methods won't meet the unique needs of the community. He is proficient in the following software: PetraPro, TraxPro, MetroCount, Excel, AutoCAD, SIDRA, HCS, SIDRA, VISSIM, CORSIM, and Adobe Suite.

09/22-current **Greenwell Springs**
 The objective of the preliminary assessment was to evaluate the feasibility of converting the intersection of Greenwell Springs at Morgan Road, in East Baton Rouge Parish into a **roundabout**. Mr. Morgan coordinated to obtain the collection of 48-hour vehicular turning movement count data. Mr. Morgan reviewed the data and selected peak hours for analysis. He also used the data along with LADOTD historical traffic data to calculate D, K, and T factors and 2022/2042 ADTs for the study roadways. Mr. Morgan used SIDRA traffic analysis software to analyze the intersection as an unsignalized, signalized, and roundabout intersection. He reviewed the reported crashes from the **LADOTD** database near the intersection for the years 2019-2021 and developed crash rates for comparison to statewide averages.

03/22-09/22 **Hundred Oaks Broussard Bridges TCDP**
 The objective of the **Traffic Control Devices Plan (TCDP)** was to provide adequate advanced notice and signage to drivers for the closure of two local roadway bridges in East Baton Rouge Parish. Mr. Morgan led the design of the TCDP for each bridge closure which incorporated local municipalities' standards, as well as the Manual on Uniform Traffic Control Devices (MUTCD) standards. Mr. Morgan used aerial photography and the Google Earth mapping program to **designate placement of detour** and advanced warning signage. He oversaw the creation of the plans in AutoCAD, a CAD-type software oriented to drawing and modeling. He used **QA/QC** to verify the plans before delivering electronic versions of preliminary plans to the client using Adobe PDF format.

07/22-current **LA 3127 Widening**
 This traffic study to analyze the impact of **widening** the LA 3127 corridor in St. James Parish, LA from LA 3213 to LA 20 to a four-lane

	<p>divided highway is being conducted following the LADOTD Traffic Engineering Process and Report (TEPR) guidelines. Mr. Morgan conducted in-person site observations at study intersections during the critical peaks of traffic to identify queuing, circulation, and driving patterns, as well as any other factors, that impact traffic operations. He coordinated the data collection effort to obtain 7-day, 48-hour and, turning movement counts as well as speed data on the study corridors. Mr. Morgan summarized the traffic data collected, the observations, existing study area conditions, and the projected growth rate for the area in Appendix A, Appendix B, and Chapter 1 format following the TEPR. These and Chapter 2 with Appendices C & D which summarized the Existing Safety Analysis and the Existing Conditions Capacity Analysis have been approved by LADOTD. Ongoing tasks include identifying potential improvements at the intersections of LA 3127, LA 3213 and at LA 20.</p>
<p>10/22- current</p>	<p><u>US 190 at LA 433</u> Mr. Morgan conducted in-person site observations at study intersections during the critical peaks of traffic which included identification of queuing, circulation, and driving patterns that could impact traffic operations in St. Tammany Parish. The report and submittals were in accordance with LADOTD's Traffic Engineering Process and Report (TEPR) guidelines. He performed existing and No Build analysis using SIDRA. Mr. Morgan is currently analyzing potential improvements for this Intersection Control Evaluation (ICE) which includes signalized and roundabout alternatives.</p>

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by Advanced Bridge Design, PLLC			
Name	Saeed Doust		Years of relevant experience with this employer
Title	Principal Engineer		Since inception (2y-4m)
Degree(s) / Years / Specialization		PhD, 2011, Structural Engineering	
Active registration number / state / expiration date		PE0038907, Louisiana, 09/30/2024	
Year registered	2014	Discipline	Civil
Contract role(s) / brief description of responsibilities		Principal Engineer in charge of bridge design, load rating, evaluation, and retrofit/rehab. MPR #5	
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).		
04/2021-03/2023	Designed superstructure of the Cheat River Bridge, <u><i>the longest steel span of the US</i></u> , Total length of the bridge 3300’, Main span 620’, Fed. ID NFA-2317(369), Tucker Co, W. Virginia (Under Construction)		
	<p>The drawing shows a plan view of the Cheat River Bridge with spans 6 through 10. Span 6 is 295'-0" between Pier 5 (STA 711+40) and Pier 6 (STA 714+35). Span 7 is 405'-0" between Pier 6 and Pier 7 (STA 718+40). Span 8 is the main span of 620'-0" between Pier 7 and Pier 8 (STA 724+60). Span 9 is 325'-0" between Pier 8 and Pier 9 (STA 727+85). Span 10 is 165'-0" between Pier 9 and the Abutment Station. The drawing details the bridge structure including 100-year scour lines, existing ground, and various elevations for LBS (e.g., EL 1765.074, EL 1769.753, EL 1773.857, EL 1809.198, EL 1838.548, EL 1848.037), BOF (e.g., 1601.50, 1604.00, 1750.50), and rock sockets (e.g., EL 1588, EL 1553, EL 1690.00, EL 1595). It also shows a 7'-0" diameter caisson with a 6'-6" diameter and a 9'-6" diameter rock socket. Other features include an expansion joint (EXP JT), profile grade, and 8" CRSP with concrete sills at each abutment.</p>		
03/2020-03/2022	Owner Representative and Technical reviewer of the structural design of segmental concrete arches and post-tensioned superstructure of Miami I-395 Signature Bridge, PID 251688-1-52-01, Florida (Under Construction)		



03/2022-04/2023	Designed steel arches of North Houston Highway Improvement Program (I-69) Segment 3B, Texas
03/2023-08/2023	Designed I -10 Bridge over LA 429, LG Grinders, Link Slab, Max Span 110 ft, S.P. H.009266, Louisiana
10/2021-10/2022	Designed and load rated LA23 Bridge over Mid-Barataria Sediment Diversion, 128' LG Gliders, S.P. BA-0153, Louisiana
05/2020-06-2020	Load rated as-designed LA21 Bridge, I-12: LA21 to US190, LADOTD, S.P. H013866, Louisiana
01/2020-02-2020	Load rated as-designed Tchefuncte River Bridge, I-12: LA21 to US190, LADOTD, S.P. H013866, Louisiana
06/2019-06-2019	Load rated box culverts of Off-System Highway Bridge Program, LADOTD, S.P. H.011534, Louisiana
02/2018-05-2018	Load rated as-designed Windsor Blvd Bridge Replacement, LADOTD, S.P. H006196, Louisiana
08/2016-06/2017	Designed PPC girder spans of new bridges of Causeway Blvd-Earhart Exp. Int., LADOTD, S.P. H.002861, Louisiana
08/2016-06/2017	Designed Span SW12 steel girders of Causeway Blvd-Earhart Exp. Int., LADOTD, S.P. H.002861, Louisiana
02/2015-06/2016	Inspected and Load Rated the existing Causeway Blvd. Bridge steel spans (substructure and superstructure), LADOTD, S.P. H.002861, Louisiana
02/2015-06/2016	Inspected and Load Rated the existing Earhart Expwy. Bridge PPC girder spans (substructure and superstructure), LADOTD, S.P. H.002861, Louisiana
05/2014-09/2014	Designed 218' Curved Steel Girder Span of Peters Rd Ext. Phase III, LA1261, LADOTD, S.P. H008244, Louisiana
03/2013-05/2014	Designed 304'+380'+304' Steel Girder Spans of Peters Rd Ext. Phase III, LA1261, LADOTD, S.P. H008244, Louisiana
01/2013-01/2014	Designed PPC girder spans of Bridges EP and PE of Peters Rd Ext. Phase II, LA1261, LADOTD, S.P. H008068, Louisiana

Firm employed by Advanced Bridge Design, PLLC			
Name	Golboo Habib Dulabi		Years of relevant experience with this employer
			Since inception (2y-4m)
Title	CAD Technician/Drafter		Years of relevant experience with other employer(s)
			11 years
Degree(s) / Years / Specialization		BSc, 2004, Mathematics	
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities		Drafter specialized in AutoCAD and MicroStation	
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).		
02/2022-06/2022	Drafted 30% drawings of H Street Bridge, Washington DC		
01/2007-09/2007	Drafted drawings of Noor Square Bridge in western Tehran, Tehran		
12/2005-03/2007	Drafted drawings of Tehran South Railroad Bridges, Tehran		
11/2005-06/2006	Drafted drawings of Mianeh-Bostan steel bridges, Tehran		

Firm employed by Advanced Bridge Design (ABD), PLLC			
Name	Ali Kazemi	Years of relevant experience with this employer	7m
Title	Engineer	Years of relevant experience with other employer(s)	-
Degree(s) / Years / Specialization		BSc, 2023, Civil Engineering	
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities		Performs structural design and load rating under the supervision of the principal engineer of ABD	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/2023-12/2023	Performed load rating of substructure components of PRT ancillary bridges, Washington DC		

17. Firm Experience:

Identify the team's project experience most relevant to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm Name	Burk-Kleinpeter, Inc.		Past Performance Evaluation Discipline(s)*	bridge / road
Project Name	Peters Road Bridge and Extension		Firm responsibility (prime or sub?)	Prime
Project number	H.008068, H.008069, H.008244	Owner's Name	Plaquemines Parish Government	
Project location	Plaquemines Parish, LA	Owner's Project Manager	Ken Dugas	
Owner's address, phone, email	333 F. Edward Hebert Blvd., Belle Chasse, LA 70037, (504) 392-6690, kendugas@plaqueminesparish.com			
Services commenced by this firm (mm/yy)	07/07	Total consultant contract cost (\$1,000's)	\$7,767	
Services completed by this firm (mm/yy)	07/24 (est)	Cost of consultant services provided by this firm (\$1,000's)	\$6,402	

Staff To Be used in this Proposal • Michael D. Chopin, PE • Rene, A. Chopin, III, PE • Andrew R. Jensen, PE • Henry M. Picard, III, PE, PLS • David E. Boyd, PE • Rebecca J. Chopin, PE • Rene A. Chopin, IV, PE

Firm Role: Prime consultant contracted to complete a Supplemental Environment Assessment (SEA). In addition, contracted by the Plaquemines Parish Government to create the **preliminary and final road and bridge design plans for a new fixed high-level bridge** connecting Peters Road (LA 3017) in Jefferson Parish with LA Hwy 23 in lower Belle Chasse.

Project Description: The Peters Road Extension project had previously received a Finding of No Significant Impact (FONSI), had been included in the NORPC Metropolitan Transportation Plan (MPO) with funding identified, and progressed into final design in 2007. Before the start of the project, an additional clear zone was required which necessitated a change in the project alignment and need for the SEA, which included community outreach, human and natural environment impact assessment, and prepared/distributed documents on behalf of the NORPC.

The Jefferson Parish connection includes **realignment and creation of a couplet** along a portion of the Murphy Canal. The Belle Chasse side of the project will cross below the Naval Air Station to make a direct connection into LA Highway 23 for hurricane evacuation and a direct connection for lower Plaquemines Parish directly to the Westbank Expressway in Jefferson Parish. To accomplish this BKI coordinated with USACE, DNR, and USCG to build a consensus for the proposed high-level crossing over the Gulf Intercoastal Waterway (GIWW). Each phase was designed to operate independently until all phases were complete.

Initial construction is a **two-lane approach roadway and bridge**. BKI developed **conceptual plans of the future four-lane with twin span build out to determine Right-Of-Way limits with ROW maps prepared for the build out** and all future right-of-way was acquired by Plaquemines Parish and transferred to DOTD. The Southeast Louisiana (SELA-EOH) Hydraulic Model was used to size the necessary box culverts. The determined size (2062' linear feet of four 10' x 10' Box Culverts) was required to route runoff and accommodate Traffic Design Elements of the new LA Hwy 1261 - sequencing the box culvert installation was critical. The designed culverts were incorporated into the Phase II plans and specifications of the project with provisions to keep the Murphy Canal operational while the box culverts were being installed. The project called for widening the existing Murphy Canal to a width equal to the existing canal plus the width required for the 4 box culverts to be installed. The new fixed, high-level bridge consists of 20' slab spans with curtain walls, AASHTO Type III and BT-72 girder spans for the approaches, with a 991' three-span continuous plate girder main span over the GIWW. The new couplet between Peters Road and Engineers Road required two 20' slab span bridges over the Baratavia Canal. All bridges were designed in accordance with **AASHTO LRFD**.

Project Relevance

- Coordinated with the USACE, DNR, and USCG to build a consensus for a proposed high-level crossing over the GIWW near Belle Chasse, LA.
- Developed construction and design alternatives that allowed the existing channel flow capacity to be maintained during construction while converting canal to box culvert.
- Each phase was designed to operate independently until all phases were complete.



17. Firm Experience:

Identify the team’s project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm Name	Burk-Kleinpeter, Inc.		Past Performance Evaluation Discipline(s)*	bridge / road
Project Name	Earhart Expressway - Causeway Boulevard Interchange		Firm responsibility (prime or sub?)	Prime
Project number	SPN H.002861	Owner’s Name	LA Department of Transportation & Development	
Project location	Metairie and Jefferson, LA	Owner’s Project Manager	Christina Brignac	
Owner’s address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1394, christina.brignac@la.gov			
Services commenced by this firm (mm/yy)	04/11	Total consultant contract cost (\$1,000’s)	\$7,812	
Services completed by this firm (mm/yy)	12/24 (est)	Cost of consultant services provided by this firm (\$1,000’s)	\$6,278	

Staff To Be used in this Proposal • Michael D. Chopin, PE • Rene, A. Chopin, III, PE • Andrew R. Jensen, PE • Henry M. Picard, III, PE, PLS • David E. Boyd, PE • Rebecca J. Chopin, PE • Rene A. Chopin, IV, PE • Renee M. Poole, PE • Bailee L. Hurm, EI • Saeed Doust, PH.D, PE

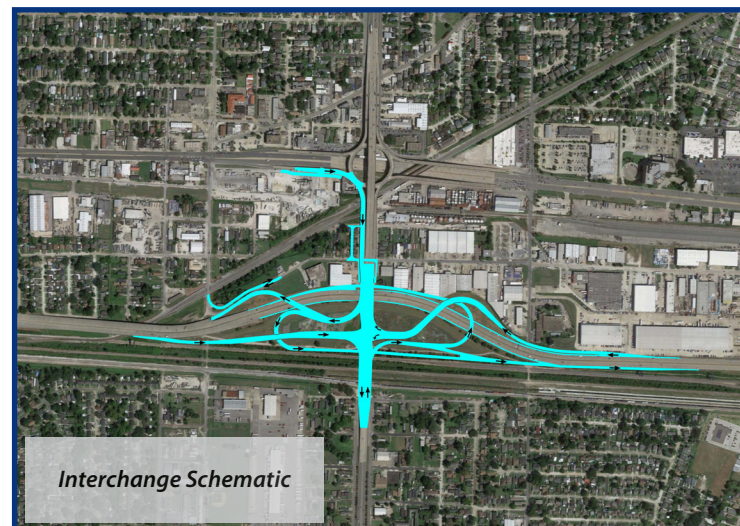
Firm Role: Prime responsible for conducting the Supplemental Environmental Assessment (SEA) of the Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046) improvement as well as responsible for providing all engineering services to design a new interchange. Prime Consultant provided **rating & evaluation** with recommendations addressing deficiencies of existing bridge structures.

Project Description: This project includes a full interchange providing all directions of movement between the two corridors. The interchange fit within a very compact footprint with unique geometric challenges and features seven new ramps which include at-grade roadways and bridge structures. Six of the eight movements were under free-flow conditions and two will function under a signal controlled condition. An elevated signalized intersection was used for the concurrent left turn movements from eastbound Earhart Expressway to southbound Causeway Boulevard and from westbound Earhart Expressway to southbound Causeway Boulevard.

The project provided improved connectivity between major regional employment centers located in the Earhart Expressway and Causeway Boulevard corridors. The interchange has created another link between Earhart Expressway and Interstate 10 via Causeway Boulevard. The existing Causeway Boulevard and Earhart Expressway Bridges were evaluated and rated using Load Resistance Factor Rating (LRFR). Recommendations were developed by BKI to correct any deficiencies found.

Project Relevance

- Urban Road & Bridge Design
- Drainage Design
- Water & Sewerage Relocations
- Suggested Sequence of Construction
- Determined ROW limits
- Delivered Geometric Design with all horizontal, vertical & cross-section elements up front for a detailed geometric review prior to beginning preliminary plans.
- Prepared Preliminary & Final Plans for Roadway & Bridge
- Water & Sewer Relocation Plans
- Identified all Waivers & Design Exceptions required for the project
- Drainage Design included integration with complex urban drainage network - had to be evaluated for phased construction of the project



17. Firm Experience:

Identify the team's project experience most relevant to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm Name	Burk-Kleinpeter, Inc.		Past Performance Evaluation Discipline(s)*	bridge / road
Project Name	Rural Bridge Replacement Phase I & II		Firm responsibility (prime or sub?)	Prime
Project number	See Below	Owner's Name	Louisiana DOTD	
Project location	Various Parish, LA	Owner's Project Manager	Brian Allen	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA, 225-379-1840, brian.allen@la.gov			
Services commenced by this firm (mm/yy)	07/20	Total consultant contract cost (\$1,000's)	Phase I: \$3,600 Phase II: \$4,800	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	Phase I: \$1,200 Phase II: \$1,600	

Staff To Be used in this Proposal • Rene, A. Chopin, III, PE • Andrew R. Jensen, PE • Henry M. Picard, III, PE, PLS • David E. Boyd, PE • Rebecca J. Chopin, PE • Rene A. Chopin, IV, PE • Renee M. Poole, PE • Bailee L. Hurm, EI

Firm Role: Prime consultant contracted by the Louisiana Department of Transportation & Development to prepare construction documents for the Rural Bridge Replacement Initiative Phase I for 33 bridges across 16 State Projects on the State Highway System and local roadways in Districts 03, 07, 61, and 62. Phase II consisted of the replacement of 34 bridges across 9 State Projects on the State Highway System and local roadways in Districts 05, 08, and 58.

Project Description: Through both phases, **environmental tasks** included NEPA compliance, wetland findings reports, and Coastal Use Permits and Sec. 10/404 permits, as needed. Design included topographical surveys, real estate property surveys and right-of-way maps, hydraulic analysis and design services, and preliminary and final design and plan sets for replacement of substandard bridges and associated roadway approaches in the identified locations. Work included removal of existing bridge decks, timber structures, pilings, and guard rails, and construction of new **concrete bridges**, driving of new concrete pilings, installation of new guardrails, **replacement of roadway**, installation of reinforced concrete boxes (where applicable), and **widening of roadway embankment**. BKI provided **special bridge designs** for cast-in-place slab spand bridges and one LG girder bridge. As designed bridge load ratings per LRFR are included.

Bridges replaced in the course of this initiative include **State Project Numbers** H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997, H.014242.5, H.014243, H.014245, H.014246, H.014247, H.014248, H.014249, H.014250, H.014268.

Project Relevance

- Sequencing of bridge projects to maintain traffic, meeting FHWA TIFIA Program requirements, and minimizing ROW taking based upon rural bridge criteria.
- Performed multi-bridge hydraulic analysis for flow and scour. DOTD Hydraulic section selected our hydraulic models as an example for use on other bridge replacement projects.
- Managing 25 state projects including survey, environmental, hydraulic, preliminary and final plans on a compressed schedule.



17. Firm Experience:

Identify the team's project experience most relevant to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm Name	Burk-Kleinpeter, Inc.	Past Performance Evaluation Discipline(s)*	bridge / road
Project Name	Mandeville By-Pass	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's Name	St. Tammany Parish Government
Project location	Covington, LA	Owner's Project Manager	Daniel Hill
Owner's address, phone, email	P.O. Box 628 Covington, LA 70434, 985-898-2552, dphill@stpgov.org		
Services commenced by this firm (mm/yy)	03/15	Total consultant contract cost (\$1,000's)	\$2,775 (fee)
Services completed by this firm (mm/yy)	12/24 (est)	Cost of consultant services provided by this firm (\$1,000's)	\$980 (fee)

Staff To Be used in this Proposal • Michael D. Chopin, PE • Rene, A. Chopin, III, PE • Andrew R. Jensen, PE • Henry M. Picard, III, PE, PLS • David E. Boyd, PE • Timothy J. Koenig, PE • Rebecca J. Chopin, PE • Rene A. Chopin, IV, PE • Renee M. Poole, PE

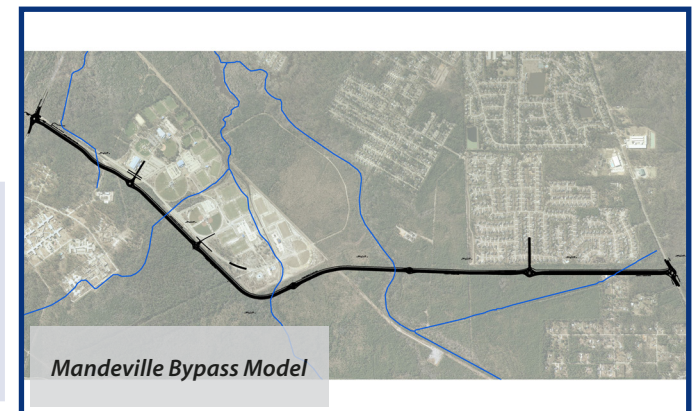
Firm Role : As Prime Consultant, prepared a feasibility study for a proposed roadway connecting US Highway 190 and LA Highway 1088 with roundabout intersections at each end, providing the Parish with recommendations on the most compatible alternatives. Once an alternative was selected, the BKI team prepared schematic roadway plans including typical sections and plan/profile sheets.

Project Description: BKI evaluated eight corridor alignments before providing a short list of three **alignment alternatives**, from which a single recommended alignment was selected. All the short-listed and recommended alternatives included the **implementation of roundabouts** to provide the best level of service to traffic along the length of the corridor based on LADOTD EDSM NO: VI.I.I.5 guidelines. A single lane roundabout with allowances for an upgrade to a two-lane roundabout in the future was selected for the intersection at LA 1088. A single lane roundabout with a dedicated left turn lane was utilized at the intersection with US 190. The feasibility study included an **environmental evaluation** of wetlands, endangered species, cultural resources, residential/commercial displacements, ROW acquisition costs, mitigation costs, construction costs, utility relocation costs, and project transportation benefits. The project study area includes the habitat for an active colony of Red-Cockaded Woodpecker, an endangered species. As part of the study, the BKI team **coordinated with user agencies** including the U.S. Environmental Protection Agency, Natural Resource Conservation Service, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, LA Dept. of Wildlife and Fisheries, Dept. of Culture Recreation & Tourism, LADEQ, LA Dept. of Agriculture and Forestry, LADOTD, and LA Dept. of Natural Resources.

The BKI design team **conducted several public meetings and subdivision meetings** to solicit public input and established the roadway design criteria for the proposed bypass including design speed, horizontal and vertical geometric components, multi-use path, utility servitudes, and buffer zones. In addition, BKI prepared all necessary permits for the selected alignment. **Preliminary plans** included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction and cross sections. Currently, the project is in the end stages of the **final design**.

Project Relevance

- Project consists of over 3.5 miles of roadway, multi-use paths, and two roundabouts.
- Prepared NEPA style documents on a locally funded project and met all USACE evaluation standards.
- Used GIS databases to predict wetlands and endangered species habitat for multiple alternatives in lieu of field studies in the alternative selection
- Prepared alternatives analysis for wetland endangered species via GIS data search and had that validated by actual field surveys. Obtained DNR LONO and USACE Section 10/404 permit.



17. Firm Experience:

Identify the team’s project experience most relevant to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm Name	Burk-Kleinpeter, Inc.		Past Performance Evaluation Discipline(s)*	road
Project Name	PR 929 at Braud Rd Roundabout		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner’s Name	Ascension Parish	
Project location	Ascension Parish, LA		Owner’s Project Manager	Joey Tureau
Owner’s address, phone, email	42077 Churchpoint Road, Gonzales, LA 70737, (225) 621-5730, jtureau@apgov.us			
Services commenced by this firm (mm/yy)	04/18	Total consultant contract cost (\$1,000’s)	\$485	
Services completed by this firm (mm/yy)	03/21	Cost of consultant services provided by this firm (\$1,000’s)	\$346	

Staff To Be used in this Proposal • Michael D. Chopin, PE • Rene, A. Chopin, III, PE • Henry M. Picard, III, PE, PLS • David E. Boyd, PE • Timothy J. Koenig, PE • Rene A. Chopin, IV, PE

Firm Role: BKI was selected by Ascension Parish for the preparation of construction documents (including preliminary and final design) and project assistance for the design of a single lane roundabout at Parish Road 929 and Braud Road.

Project Description: The intersection at Parish Road 929 and Braud Road connects the communities of Prairieville, Duplessis, Galvez, and Hobart that have grown rapidly over the past years resulting in severe traffic congestion on these 2 roadways. This roundabout is part of the MOVE ASCENSION program to improve traffic conditions across the parish. BKI and our subconsultants provided topographic surveying, property boundary surveying, underground utility engineering, geo-technical investigations and analysis, right-of-way taking maps, and engineering services.

The project consists of removing an existing stop control intersection with a **single-lane roundabout to improve current and future traffic conditions**. Although this was an Ascension Parish program, for consistency and convenience, the **LADOTD standards**, references, manuals, and format requirements were utilized. Construction documents consisted of preparation of a topographic survey, right-of-way map, geo-technical investigations and analysis, preliminary design, final design, and cost estimates. Project assistance consisted of project coordination with subconsultants, design management, bidding assistance, construction administration, and resident inspection. During the design of the project, it was determined that two existing bridges had to be widened or replaced. BKI was asked to complete a hydraulics analysis which determined the two bridges could be replaced with box culverts verses bridge replacement.

Project Relevance

- Designed a roundabout with minimal impact to adjacent properties.
- Analyzed the diameter of the roundabout to minimize the required footprint while not impacting the intersection’s level of service.
- Performed hydraulic analysis to replace two slab span bridges with box culverts.



17. Firm Experience:

Firm name	Urban Systems, Inc	Past Performance Evaluation Category(ies)*	Traffic
Project name	US 90 (I-49 South) Albertson's Parkway to Ambassador Caffery Design / Build	Firm responsibility (prime or sub?)	Sub
Project number	SP H.010620	Owner's name	LADOTD
Project location	Lafayette Parish, LA	Owner's Project Manager	Peggy Jo Paine, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana, 70802, 225-379-1065, peggy.paine@la.gov		
Services commenced by this firm (mm/yy)	01/14	Total consultant contract cost (\$1,000's)	n/a
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm (\$1,000's)	\$232.6K

Urban Systems, Inc. was part of the Design/Build team under the engineering task for this project. The project included upgrading a portion of US 90 from a four-lane facility to a six-lane facility with controlled access. The project also included providing a system of frontage roads to provide connectivity. Urban Systems was responsible for a variety of tasks including developing a signage plan, traffic signal plans, temporary traffic control plans (TCDP), traffic analysis and a Level 3 Traffic Management Plan (TMP) based on **LADOTD EDSM VI.1.1.8**.

Signage and Traffic Signal Plans

As part of the definitive design portion of this project, USI developed signage and traffic signal plans based on LADOTD requirements. The traffic signal plans were also developed in the latest LADOTD TSI format. These plans were updated during the construction phase of the project as unforeseen issues arose. USI worked closely with the contractor, team members and local entities throughout the construction phase.



Temporary Traffic Control Plans (TCDP)

Temporary traffic control plans were developed for the various phases of construction. These plans also included temporary traffic signals for some of the phases. These plans were developed to meet the current LADOTD standards. Additional traffic control plans were developed during the construction phase of the project as required by the contractor. Some of these plans involved complicated detours and devices to maintain access while completing construction.

Traffic Study and TMP

Traffic analysis was conducted to determine the impact construction and the proposed configuration would have on traffic conditions. Traffic volumes were re-routed for each phase on construction and capacity analysis was conducted for each scenario.

Firm Members Involved:
N. Stewart
A. Michel
M. Morgan

A safety analysis was prepared for the study US 90 roadway segment, LA 182-roadway segment, and the US 90 at Albertsons Parkway/St. Nazaire Road intersection based on the guidelines set forth by LADOTD in *Part III: Guidelines for Conducting a Safety Analysis for Transportation Management Plans and Other Work Zone Activities, May 2013*. The purpose of this analysis was to assess the safety impacts of the construction activities within the project area and mitigate the impact on the state highway. Mitigation strategies were also identified to minimize work zone impacts for incident management to increase construction zone safety.

Firm name	Urban Systems, Inc		Past Performance Evaluation Category(ies)*	Traffic
Project name	MacArthur Interchange Completion		Firm responsibility (prime or sub?)	Sub
Project number	JP 2001-004-RB		Owner's name	Jefferson Parish
Project location	Harvey, Jefferson Parish, LA		Owner's Project Manager	Mr. Mark Drewes
Owner's address, phone, email	1221 Elmwood Blvd., Ste 1002 Jefferson, LA 70123, mdrewes@jeffparish.net , 504.736.6607			
Services commenced by this firm (mm/yy)	09/10	Total consultant contract cost (\$1,000's)	\$93.3K	
Services completed by this firm (mm/yy)	08/11	Cost of consultant services provided by this firm (\$1,000's)	unknown	

Traffic Study

Urban Systems prepared a technical report which evaluated the existing operating conditions of the lower Westbank Expressway and analyzed the affect of modifications associated with the Mac Arthur Interchange project in Harvey, LA.

Traffic Control Devices Plans

Traffic Control Plans were developed for Phase 1 – Stages 1 through 4 and Phase 2 - Stages 1 and 2. The plans included the placement of traffic control devices and striping to facilitate traffic safely and efficiently through the traffic control zone. This included lane closures on both the Lower and Elevated West Bank Expressway. Signal Modifications were also included for the three signalized intersections within the study area.

Traffic Signals

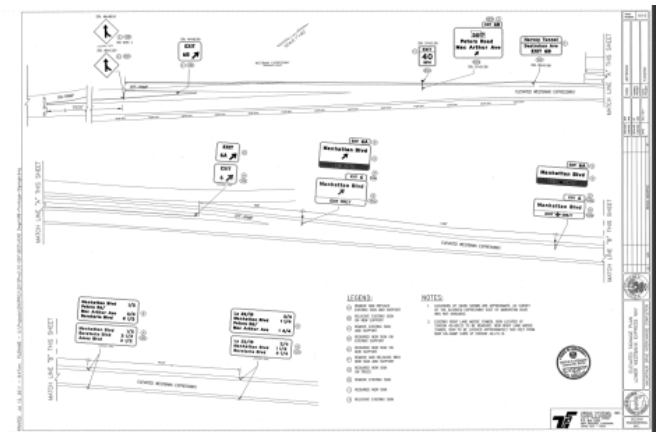
New traffic signals were designed for both Maplewood and Brown at Lower Westbank Expressway. A two hundred foot median separated the east and westbound approaches of both intersections. The Maplewood Intersection signal was designed to operate with phasing to accommodate the new off ramp that tied into the Lower Westbank expressway at the westbound approach.

Permanent Striping

Striping plans were developed for the Lower and Elevated West Bank Expressway in accordance with DOTD specifications and Standard Details. The striping plans included pavement markings at intersections and on roadways with site specific details for the on and off ramp gore areas.

Permanent Signage

Permanent signage plans were prepared for the Westbank Expressway in accordance with DOTD specifications and Standard Details using the latest version of GuidSIGN. Guide Signs were designed to advise motorist of the new Mac Arthur Interchange. The design of each sign included size, color, sign supports and sign placement .



Firm Members
Involved:
N. Stewart
A. Michel
K. Pham

Firm name	Urban Systems, Inc		Past Performance Evaluation Category(ies)*	Traffic
Project name	US 190 at Northshore and Camp Villere		Firm responsibility (prime or sub?)	Sub
Project number	H.012812		Owner's name	LADOTD
Project location	St Tammany Parish, LA		Owner's Project Manager	Jacob Fusilier
Owner's address, phone, email	Jacob.fusilier@la.gov , 225-379-1185, 1201 Capitol Access Road, Baton Rouge, LA, 70802			
Services commenced by this firm (mm/yy)	02/20	Total consultant contract cost (\$1,000's)		\$55K
Services completed by this firm (mm/yy)	02/23	Cost of consultant services provided by this firm (\$1,000's)		Unknown

Urban Systems provided design services for the construction of two roundabouts on US 190 in St Tammany Parish, LA. Tasks included preparation of striping and signage plans for each roundabout location, and included temporary signalization design and a Level 2 transportation management plan (TMP).

Once base drawings of the geometric layouts were provided, striping and signage plans were designed for permanent conditions in accordance with LADOTD standard details.

Urban Systems reviewed the temporary Traffic Control Devices Plans (TCDP) and provided detailed comments to ensure constructability and compliant with the latest edition of the both the Manual of Uniform traffic Control Devices and the LADOTD Temporary Traffic Control (TTC) Details

The sequence of construction was developed through a number of meetings and concept level plan reviews. For the purpose of this proposal, we estimated that up to 2 temporary signals will be required. AM and PM peak hour analysis were conducted using HCS software for the temporary signalization to develop phasing and timing. The analysis was based on the volumes from the provided US 190 Roundabout Study with re-routing taken into consideration. This analysis was included as part of the Transportation Management Plan.

The Transportation Management Plan (TMP) was developed in coordination with LADOTD, St. Tammany Parish, FHWA and other relevant agencies. The Level 2 TMP was prepared in accordance with EDSM No. VI.1.1.8.

N. Stewart
K. Pham

100% Performed in Louisiana

17. Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Advanced Bridge Design, PLLC	Past Performance Evaluation Discipline(s)*	Bridge
Project name	McWright Ferry Rd Bridge over North River	Firm responsibility (prime or sub?)	Sub
Project number	SP.2016.125.001	Owner's name	City of Tuscaloosa, AL
Project location	City of Tuscaloosa, AL	Owner's Project Manager	Josh Norris
Owner's address, phone, email	P.O. Box 2089, Tuscaloosa, AL 35403, 205-248-5386, jnorris@tuscaloosa.com		
Services commenced by this firm (mm/yy)	10/2021	Total consultant contract cost (\$1,000's)	
Services completed by this firm (mm/yy)	5/2022	Cost of consultant services provided by this firm (\$1,000's)	\$63

The bridge has six approach spans and a main span. Approach spans are composed of PPC girders composite with concrete deck with a maximum span length of 100'. The main span is a 220' long steel I-girder span. All spans are supported by concrete column bents or pile bents. ABD performed design and load rating of the main span and the concrete substructure. Principal engineer of the firm in charge of structural design and load rating: Saeed Doust, PhD, PE

18. Approach and Methodology:

Provide a description of how the work will be performed and provide the proposed project schedule. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. If more than four pages are included, all pages after the fourth page will not be evaluated.



PROJECT BACKGROUND

The LA 44 corridor in Ascension Parish between New Orleans and Baton Rouge, which runs from I-10 to LA 22, has experienced rapid development in recent years. With more development planned along the corridor, growth is expected to continue. However, this has significantly increased traffic volumes, putting strain on the existing two-lane highway and intersections. LADOTD has concluded that operational capacity and safety improvements are needed to address these issues.

There are plans to widen the entire corridor to four lanes and add eight roundabouts at the major intersections. The Department will break up the design and construction into several separate contracts. Each project on the corridor needs to be meticulously planned and coordinated with future and past projects to ensure an efficient, safe, attractive, and consistent experience for the drivers.

The purpose and need of this project, H.015568 LA 44: Pelican Point Roundabout and Widen, is to improve traffic flow by increasing the capacity of LA 44 between LA 941 and Pelican Point Parkway and to reduce the frequency and severity of crashes at the intersection of LA 44 and Pelican Point Parkway. The project will widen existing two-lane highway to four lanes and includes the addition of a new roundabout at the junction of LA 44 and Pelican Point Parkway. The work classification will be "new / reconstruction." The project length is approximately 0.85 miles on Control Section 265-01 from log mile 1.819 to 2.667. The design ADT is expected to be greater than 15,000 vehicles per day. This project also aims to evaluate the existing bridge over the Panama Canal to see if it is feasible to widen the bridge or if it will be necessary to replace the bridge.

PROJECT TEAM

Burk-Kleinpeter, Inc. (BKI) will be the prime consultant providing project management and road and bridge design. BKI has a proven track record of preparing roadway and bridge plans, specifications, and designs. Rounding out the BKI Team are Urban Systems Inc. (USI) for traffic engineering and road design, and Advanced Bridge Design, PLLC (ABD) for bridge evaluation and as-designed bridge ratings. The BKI Team has allocated about 10% of this project to DBE firm USI to exceed the LADOTD DBE goal of 6%.

For this project, BKI carefully selected firms with the professional expertise and local knowledge required to fulfill the Department's requirements and complete the project on schedule.

PROJECT MANAGEMENT

Upon receiving the Notice to Proceed (NTP), the BKI team will hold a pre-design kickoff meeting to discuss the project scope and major discussion points. This meeting will consist of members of BKI's team, along with representatives from LADOTD and any relevant agency or local stakeholders. BKI will host weekly meetings with all design consultants to ensure high levels of coordination and communication for this multidisciplinary project. BKI will also host bi-weekly progress meetings with the LADOTD project manager and team members. Each session will include a written status report and current project schedule. The BKI project manager, Andrew Jensen, will discuss the progress and can share any relevant information with The Department project manager at the progress meetings. The consultant team aims to work seamlessly with the DOTD staff. DOTD provides many design services on the contract, so frequent and high-quality coordination meetings are critical. BKI has experience working on both complex projects and many small projects that all require a high degree of project management and collaboration with the Department. We take this responsibility seriously and strive to meet or exceed the Department's expectations. The BKI PM, Andrew Jensen, has proven to be able to meet this challenge on many projects of this complexity.

DESIGN PHASE

Criteria

BKI will prepare design criteria for DOTD approval prior to proceeding with the design. BKI will consider all posted DOTD design manuals, policies, and memoranda as part of the design criteria. We will also utilize FHWA, AASHTO, and other federal guidelines. BKI will prepare the design report and typical sections, taking special care to meet context-sensitive challenges. We will make every effort to adhere to the DOTD Complete Streets policy, focusing on pedestrian and bicycle accessibility and safety through the proposed corridor and coordinating with adjacent projects.

Typical Section

The project corridor is classified as an Urban Major Collector and is not part of the National Highway System (NHS). The posted speed on the route is 55 mph, and we expect the design speed to be 60 mph. LA 44 is a high-speed roadway, especially considering the density of driveways and intersections. Traffic calming and median access controls will be essential to create a safe corridor. The existing road has two 11ft lanes and 2ft shoulders. We expect the proposed roadway typical section to have four 12ft lanes with 8ft outside shoulders and 4ft inside shoulders. We anticipate most of the corridor will have a 10ft median measured from inside lane edges. The median will consist of the two 4ft inside shoulders and a 2ft raised concrete island to provide left turn access control. We will increase the median width to 22ft just north of the Panama Canal bridge to allow the addition of auxiliary lanes for turnarounds. The turnarounds will include truck bulb-outs outside the road, allowing the design vehicle to make a complete U-turn without backing up. BKI will analyze the design with AutoTurn software to verify the truck turning path. Careful design of the median openings is critical to lessen the risk of major accidents caused by drivers turning left or U-turning into oncoming traffic. We will make special considerations for stopping sight distances to ensure an adequate line of sight for drivers to make these riskier maneuvers on the busy road. We will carefully review the impacts on the adjacent properties during the preliminary design. We will reduce the median width and shoulders to acceptable values only if the effects of using the preferred values are analyzed and considered too great. We will balance the impact on the adjacent properties with the safety and functionality of wider shoulders and median. We will use 4:1 foreslopes and 3:1 backslopes with a clear zone between 36 and 44 ft. We will improve the side drain pipes and ditches and use safety end treatments when pipe ends are within the clear zone. We will also work closely with LADOTD to ensure the typical sections we establish are consistent and compatible with the adjacent projects planned for the LA 44 corridor. We will over build the roadway width at the project ends to four lanes so future projects can tie to the widened pavement without unnecessary reconstruction.

Geometry

We will develop and refine the project geometry to minimize impacts to the surrounding neighborhoods and businesses, being mindful that we are to provide enough right-of-way for a functional four-lane corridor. We will use 4% maximum superelevation with the design speed of 60 mph. The existing curve north of the Panama Canal must be superelevated near the full rate to meet the design standards. The existing bridge falls within the superelevation transition for the curve. We anticipate that the roadway superelevation design will be constrained by the existing bridge cross slope and elevation if it is decided to widen the existing bridge. We will analyze the existing bridge deck geometry and consider if this meets the superelevation design standards. If the existing bridge does not meet the geometry standards, we will factor

this into the recommendation to replace or widen the bridge. Stopping sight distance will be checked for the main travel lanes and each driveway, especially near the bridge barrier rails and guard rail. We anticipate that the required total right-of-way width is about 150ft for the four-lane section. The existing right-of-way ranges between 60ft and 130ft. The design team will make every effort to mitigate impacts to the adjacent properties. However, we are prepared to work closely with the DOTD real estate group to assist in the right-of-way acquisition process by providing detailed descriptions of impacted improvements, including driveways and fences. BKI will prepare a detailed utility conflict matrix for the project as described in the scope. There are many public and private utilities in the corridor and major gas pipelines in the project vicinity that we will plan around from the very start of the design process. We have experience working on dense urban roadway projects and interchanges with dozens of utilities in the public right-of-way. We have experience coordinating with private utility companies, including Entergy, Atmos, Gulf South, and many others. We will identify all potential conflicts with a project map and in tabular form with clear labels and a description of the type and location of the apparent conflict. We will provide recommended resolutions to the apparent conflict, including but not limited to relocations, casings, and special designs to avoid conflict.



Roundabout

The proposed roundabout at LA 44 and Pelican Point Parkway intersection will have several design challenges. Its proposed location will impact the landscaping and detention ponds at the intersection. BKI will work closely with the LADOTD real estate group to account for and mitigate the impacts. The design should also relocate the private driveway in the roundabout onto the roundabout approach and not place it on the circulating roadway to avoid confusion between the private driveway and a public road. The project may convert the nearby intersection with Pelican Crossing Drive to a right-in right-out because it is within the splitter island on the approach. However, we will also investigate depressing the splitter island here to allow low-volume left turns, which would provide full access to LA 44 for Pelican Crossing Drive. The design team will make recommendations for the Department's roundabout analysis team to consider due to the nearby intersection.

The team will pay special attention to the approach roadway geometry due to the high-speed roadway. BKI will utilize horizontal deflections and reverse curves with gradually reducing curve radii to induce speed reduction on the approach to the roundabout. The radii will be selected based on the approaching speed and deceleration rate. BKI will calculate the total length of the approach based on the required deceleration length. We anticipate that the roundabout approach geometry will begin in front of the shopping center at the project's south end. This may cause impacts to the existing parking lot.

As early as possible during the geometric design, BKI will discuss alignment options with DOTD to mitigate the anticipated impacts. Due to the high-speed approach, BKI will design the roundabout with a left alignment offset at the entrance. BKI will follow all the latest roundabout design guidelines issued by DOTD and reference the National Cooperative Highway Research Program (NCHRP) Report 672 for additional guidance when designing the roundabout. BKI understands that all roundabouts should be engineered carefully to meet the specific site characteristics and constraints. BKI has experience designing single-lane, multilane, and complex roundabouts with dedicated turn lanes. The roundabout will be designed to handle large trucks by using AutoTurn analysis. BKI will include USI during the roundabout design for additional expertise on the roundabout design from a traffic engineering perspective. The team is qualified to produce high-quality plans for a safe and functional roundabout in this challenging location.

Hydraulics

Once the typical section and alignments are established, we will take special care and use innovative solutions to manage stormwater through and around the project to ensure no negative impacts on the watershed in a flood-prone area near the Panama Canal. We will use our extensive experience and expertise in rural and urban hydraulics, hydrology methods, and criteria to optimize water flow through existing and proposed drainage features. We will use a combination of surface and subsurface drainage solutions to optimize the performance and cost. The hydraulic analysis will account for any drainage improvements planned within the drainage basin. The hydraulics and hydrology findings will be compiled into a clear and informative report.

Traffic Engineering

USI will design the striping and signage for the proposed roundabouts per the latest Manual of Traffic Control Devices and LADOTD Standard Plans and Details. USI will consider the nuances of each location during the design. The Sequence of Construction and associated Traffic Control Devices Plans will follow the same guidelines. If needed, the impact on the motoring public will be minimized, and temporary signals will be designed. The Transportation Management Plan level will be agreed upon prior to the Supplemental Agreement, and the scope will be confirmed with LADOTD during the process. USI will provide a suggested sequence of construction plans for the project, focusing on maintaining traffic throughout the project during construction. There are many commuter neighborhoods on the corridor. LA 22 is an available alternate route that can relieve traffic on LA 44 during construction.

Bridge Design

The bridge design team has been carefully selected to successfully meet the

project's goals, as outlined by the scope of work. The key team members, Rene Chopin III (BKI), Rebecca Chopin (BKI), and Saeed Doust (ABD), have a combined experience of more than 70 years in bridge design. The project team's expertise includes, but is not limited to, bridge inspections, bridge rating reports, bridge evaluation reports, and bridge rehabilitation and widening projects. Most recently, the same design team completed the plans for rehabilitation and widening of the Causeway Blvd. bridge at Earhart Expressway under Phase 1A of the project for LADOTD.

Immediately following notice to proceed, an in-depth investigation of all elements of the existing LA 44 slab span bridge over the Panama Canal will be conducted by BKI for inclusion in the Bridge Evaluation Report, which will assist in determining the feasibility of either repairing/widening or removing/replacing the existing structure to meet the requirements of the proposed typical section which includes four lanes of traffic. Thorough field inspections will be documented for inclusion in the report. As-builts and previous inspection reports, as provided by LADOTD, will be reviewed. LTRC will collect friction numbers of the existing bridge deck for the bridge widening scenario to determine if any deck rehabilitation due to friction loss is required. The sub-consultant ABD will perform existing bridge ratings following the latest edition of the AASHTO Manual for Bridge Evaluation, LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and Bridge Design Technical Memoranda. LRFR bridge ratings, including inventory and operating ratings for HL-93 and inventory ratings for LADV-11, will be provided. ABD will use AASHTOware to complete the analysis of the superstructure and either MathCAD or Excel for the substructure.

BKI will then complete a Bridge Evaluation Report for the existing bridge that includes an in-depth analysis of the existing structure. This report will be crucial in aiding LADOTD in determining the best course of action at the bridge site. Based on the report's findings, recommendations for rehabilitation and widening or removal and replacement will be made. In addition to the recommendations, BKI's Bridge Evaluation Report will include an assessment of the conditions of the existing bridge structure and a summary of the bridge rating results as outlined in the project's scope of services. The report will also investigate how each scenario meets LADOTD Minimum Design Guidelines based upon geometric design and address any potential issues with hydraulic design criteria, such as achieving acceptable freeboard. In addition, the Bridge Evaluation Report will provide a cost analysis for repairing and widening or removing and replacing the structure.

Once LADOTD determines whether the bridge will be widened or replaced, BKI will prepare the design criteria for LADOTD's review before moving into plan preparation. All bridge design will be done following the latest LADOTD Bridge Design and Evaluation Manual and the current AASHTO Bridge Design Specifications.

If it is determined that the existing bridge is to be removed and replaced, BKI expects that LADOTD standard plans will be used to construct a new, four-lane slab span bridge. BKI has recent knowledge of similar projects on the Rural Bridges for LADOTD.

If LADOTD decides to widen and rehabilitate the existing bridge to four lanes, the bridge design team has the expertise to design rehabilitation plans and analyze the new, widened structure. The team has experience with deck widening details and the associated closure pours. In addition, the team has used fiber wraps for increased flexural and shear strength capacity of members found to be deficient. Deck overlays have also been used by the project team. ABD will provide the LRFR as-designed bridge rating using similar methods to those explained for the existing bridge rating.

In either scenario, the project team will aim to provide a safe and aesthetically pleasant structure for the traveling public as well as functionality, durability, corrosion protection, and ease of inspection and maintenance. Improved guardrails at bridge ends and 36" single slope bridge railing will be designed per the latest LADOTD standard plans. Pile bents will be designed with improved scour protection and skewed to the Panama Canal following the hydraulic design as performed by LADOTD. The existing USGS data gage attached to the bridge will be salvaged and replaced. BKI will work diligently to coordinate with the LADOTD geotechnical section on the completion of the pile data table. BKI will submit a final calculation package to LADOTD.

Finally, special provisions, non-standard pay items, and construction cost estimates will be prepared throughout the project as required per LADOTD standard process and procedure.

Quality Assurance (QA) / Quality Control (QC)

Each firm will perform QA/QC on its work throughout every phase of this project, following the procedure with the QA/QC program included in this proposal.



SCHEDULE

H.015568 LA 44: Pelican Point Roundabout and Widen				
ID	Task Name	Duration	Start	Finish
1	H.015568 LA 44: Pelican Point Roundabout and Widen	520 days	Mon 6/3/24	Fri 5/29/26
2	Design Phase	520 days	Mon 6/3/24	Fri 5/29/26
3	SURVEY (DOTD)	1 day	Mon 6/3/24	Mon 6/3/24
4	<i>DOTD Provides NTP and Topo Survey</i>	1 day	Mon 6/3/24	Mon 6/3/24
5	GEOTECH (DOTD)	364 days	Mon 6/3/24	Thu 10/23/25
6	<i>Field Sampling</i>	15 days	Mon 6/3/24	Fri 6/21/24
7	<i>Laboratory Testing</i>	60 days	Fri 6/28/24	Thu 9/19/24
8	<i>Report</i>	114 days	Mon 5/19/25	Thu 10/23/25
9	ENVIRONMENTAL (DOTD)	439 days	Mon 6/3/24	Thu 2/5/26
10	<i>Wetlands Study & Cultural Report</i>	90 days	Mon 6/3/24	Fri 10/4/24
11	<i>Solicitation of Views</i>	30 days	Mon 12/2/24	Fri 1/10/25
12	<i>Environmental Study/CE</i>	30 days	Tue 12/3/24	Mon 1/13/25
13	<i>(LADOTD/SHPO Review)</i>	100 days	Mon 1/13/25	Fri 5/30/25
14	Environmental Approval Milestone	0 days	Fri 5/30/25	Fri 5/30/25
15	<i>Permitting (CUP & Sec 10/404)</i>	120 days	Fri 8/22/25	Thu 2/5/26
16	PRELIMINARY PLANS (BKI)	269 days	Tue 6/4/24	Fri 6/13/25
17	<i>Bridge Evaluation and Design Criteria Report</i>	60 days	Tue 6/4/24	Mon 8/26/24
18	<i>DOTD Review</i>	20 days	Tue 8/27/24	Mon 9/23/24
19	<i>60% PP Geometric Design Submittal</i>	50 days	Tue 9/24/24	Mon 12/2/24
20	<i>DOTD Review: 60% PP</i>	25 days	Tue 12/3/24	Mon 1/6/25
21	<i>90% PP Plan-in-Hand Submittal</i>	50 days	Tue 1/7/25	Mon 3/17/25
22	<i>DOTD Review: 90% PP and Plan-In-Hand Meeting</i>	40 days	Tue 3/18/25	Mon 5/12/25
23	<i>100% Preliminary Plans</i>	20 days	Mon 5/19/25	Fri 6/13/25
24	Additional ROW (DOTD)	254 days	Tue 10/29/24	Fri 10/17/25
25	<i>Property Survey</i>	30 days	Tue 10/29/24	Mon 12/9/24
26	<i>DOTD Review: Property Survey</i>	10 days	Tue 12/10/24	Mon 12/23/24
27	<i>60% Base Map</i>	20 days	Mon 6/16/25	Fri 7/11/25
28	<i>DOTD Review: 60% Base Map & JPR Meeting</i>	20 days	Mon 7/14/25	Fri 8/8/25
29	<i>Final Check Prints</i>	20 days	Mon 8/11/25	Fri 9/5/25
30	<i>DOTD Review: Final Check Prints</i>	10 days	Mon 9/8/25	Fri 9/19/25
31	<i>Final ROW Map</i>	20 days	Mon 9/22/25	Fri 10/17/25
32	FINAL PLANS (BKI)	250 days	Mon 6/16/25	Fri 5/29/26
33	<i>60% FP</i>	50 days	Mon 6/16/25	Fri 8/22/25
34	<i>DOTD Review: 60% FP</i>	25 days	Mon 8/25/25	Fri 9/26/25
35	<i>95% FP</i>	50 days	Mon 9/29/25	Fri 12/5/25
36	<i>DOTD Review: PQU Review / FPR</i>	25 days	Mon 12/8/25	Fri 1/9/26
37	<i>98% FP</i>	50 days	Mon 1/12/26	Fri 3/20/26
38	<i>DOTD Review</i>	25 days	Mon 3/23/26	Fri 4/24/26
39	<i>100% FP</i>	25 days	Mon 4/27/26	Fri 5/29/26

19. Workload:

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

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

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

Firm(s)	Past Performance Evaluation Discipline(s)*	State project number	Project name	Remaining unpaid Balance**
BURK-KLEINPETER, INC.	Road	H.002861	Causeway Boulevard Earhart Expressway Interchange Routes LA 3046 & 3139 - Jefferson Parish, LA	\$50,394
BURK-KLEINPETER, INC.	Bridge	H.002861	Causeway Boulevard Earhart Expressway Interchange Routes LA 3046 & 3139 - Jefferson Parish, LA	\$356,960
BURK-KLEINPETER, INC.	Other: Lighting	H.002861	Causeway Boulevard Earhart Expressway Interchange Routes LA 3046 & 3139 - Jefferson Parish, LA	\$12,598
BURK-KLEINPETER, INC.	Road	H.013957	Local Road Rural Bridge Replacement - West Feliciana Parish, LA	\$199
BURK-KLEINPETER, INC.	Road	H.013968	LA 404 Rural Bridge Replacement - Iberville, LA	\$2,241
BURK-KLEINPETER, INC.	Bridge	H.013968	LA 404 Rural Bridge Replacement - Iberville, LA	\$257
BURK-KLEINPETER, INC.	Environmental	H.013968	LA 404 Rural Bridge Replacement - Iberville, LA	\$77
BURK-KLEINPETER, INC.	Road	H.013982	LA 10 Spur, LA 1042: Bridges near Greensburg Rural Bridges Replacement Project - St. Helena Parish, LA	\$702
BURK-KLEINPETER, INC.	Bridge	H.013982	LA 10 Spur, LA 1042: Bridges near Greensburg Rural Bridges Replacement Project - St. Helena Parish, LA	\$6,110
BURK-KLEINPETER, INC.	Environmental	H.013982	LA 10 Spur, LA 1042: Bridges near Greensburg Rural Bridges Replacement Project - St. Helena Parish, LA	\$210

(Add rows as needed)

DO NOT SUM

* The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. Do not round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

Firm(s)	Past Performance Evaluation Discipline(s)*	State project number	Project name	Remaining unpaid Balance**
BURK-KLEINPETER, INC.	Road	H.013984	LA 16: Bridges (Isabel to Sun) Rural Bridges Replacement Project - St. Tammany and Washington Parishes, LA	\$329
BURK-KLEINPETER, INC.	Bridge	H.013984	LA 16: Bridges (Isabel to Sun) Rural Bridges Replacement Project - St. Tammany and Washington Parishes, LA	\$2,866
BURK-KLEINPETER, INC.	Environmental	H.013984	LA 16: Bridges (Isabel to Sun) Rural Bridges Replacement Project - St. Tammany and Washington Parishes, LA	\$98
BURK-KLEINPETER, INC.	Road	H.013996	LA 1074, LA 1075: bridges near Rio Rural Bridges Replacement Project - Washington Parish, LA	\$3,557
BURK-KLEINPETER, INC.	Bridge	H.013996	LA 1074, LA 1075: bridges near Rio Rural Bridges Replacement Project - Washington Parish, LA	\$3,278
BURK-KLEINPETER, INC.	Environmental	H.013996	LA 1074, LA 1075: bridges near Rio Rural Bridges Replacement Project - Washington Parish, LA	\$139
BURK-KLEINPETER, INC.	Road	H.014242	Rural Bridge Replacement Initiative H.014242 - LA 124 - Winn Parish, LA	\$6,261
BURK-KLEINPETER, INC.	Bridge	H.014242	Rural Bridge Replacement Initiative H.014242 - LA 124 - Winn Parish, LA	\$5,659
BURK-KLEINPETER, INC.	Environmental	H.014242	Rural Bridge Replacement Initiative H.014242 - LA 124 - Winn Parish, LA	\$120
BURK-KLEINPETER, INC.	Road	H.014243	Rural Bridge Replacement Initiative H.014243 - LA 472 - Grant Parish, LA	\$8,482
BURK-KLEINPETER, INC.	Bridge	H.014243	Rural Bridge Replacement Initiative H.014243 - LA 472 - Grant Parish, LA	\$963
BURK-KLEINPETER, INC.	Environmental	H.014243	Rural Bridge Replacement Initiative H.014243 - LA 472 - Grant Parish, LA	\$192
BURK-KLEINPETER, INC.	Road	H.014245	Rural Bridge Replacement Initiative H.014245 - LA 119 - Natchitoches Parish, LA	\$189,296
BURK-KLEINPETER, INC.	Bridge	H.014245	Rural Bridge Replacement Initiative H.014245 - LA 119 - Natchitoches Parish, LA	\$21,511
BURK-KLEINPETER, INC.	Environmental	H.014245	Rural Bridge Replacement Initiative H.014245 - LA 119 - Natchitoches Parish, LA	\$4,302
BURK-KLEINPETER, INC.	Road	H.014246	Rural Bridge Replacement Initiative H.014246 - LA 1199 - Rapides Parish, LA	\$15,379
BURK-KLEINPETER, INC.	Bridge	H.014246	Rural Bridge Replacement Initiative H.014246 - LA 1199 - Rapides Parish, LA	\$1,747
BURK-KLEINPETER, INC.	Environmental	H.014246	Rural Bridge Replacement Initiative H.014246 - LA 1199 - Rapides Parish, LA	\$349
BURK-KLEINPETER, INC.	Road	H.014247	Rural Bridge Replacement Initiative H.014247 - LA 399 - Vernon Parish, LA	\$104,606
BURK-KLEINPETER, INC.	Bridge	H.014247	Rural Bridge Replacement Initiative H.014247 - LA 399 - Vernon Parish, LA	\$80,322
BURK-KLEINPETER, INC.	Environmental	H.014247	Rural Bridge Replacement Initiative H.014247 - LA 399 - Vernon Parish, LA	\$1,867
BURK-KLEINPETER, INC.	Road	H.014248	Rural Bridge Replacement Initiative H.014248 - LA 124 - Catahoula Parish, LA	\$39,676
BURK-KLEINPETER, INC.	Bridge	H.014248	Rural Bridge Replacement Initiative H.014248 - LA 124 - Catahoula Parish, LA	\$4,508
BURK-KLEINPETER, INC.	Environmental	H.014248	Rural Bridge Replacement Initiative H.014248 - LA 124 - Catahoula Parish, LA	4901
BURK-KLEINPETER, INC.	Road	H.014249	Rural Bridge Replacement Initiative H.014249 - LA 126 - Caldwell Parish, LA	\$372
BURK-KLEINPETER, INC.	Bridge	H.014249	Rural Bridge Replacement Initiative H.014249 - LA 126 - Caldwell Parish, LA	\$336

Firm(s)	Past Performance Evaluation Discipline(s)*	State project number	Project name	Remaining unpaid Balance**
BURK-KLEINPETER, INC.	Environmental	H.014249	Rural Bridge Replacement Initiative H.014249 - LA 126 - Caldwell Parish, LA	\$7
BURK-KLEINPETER, INC.	Road	H.014250	Rural Bridge Replacement Initiative H.014250 - LA 577 - Franklin Parish, LA	\$742
BURK-KLEINPETER, INC.	Bridge	H.014250	Rural Bridge Replacement Initiative H.014250 - LA 577 - Franklin Parish, LA	\$84
BURK-KLEINPETER, INC.	Environmental	H.014250	Rural Bridge Replacement Initiative H.014250 - LA 577 - Franklin Parish, LA	\$16
BURK-KLEINPETER, INC.	Road	H.014268	Rural Bridge Replacement Initiative H.014268 - LA 4 - Jackson & Caldwell Parishes, LA	\$84,946
BURK-KLEINPETER, INC.	Bridge	H.014268	Rural Bridge Replacement Initiative H.014268 - LA 4 - Jackson & Caldwell Parishes, LA	\$70,788
BURK-KLEINPETER, INC.	Environmental	H.014268	Rural Bridge Replacement Initiative H.014268 - LA 4 - Jackson & Caldwell Parishes, LA	\$1,573
Urban Systems, Inc.	Traffic	No. 440005142 H.011309.5	Mac Arthur Final Design	\$30,687
Urban Systems, Inc.	Traffic	No. PSLC-STJ- Supp-2 H.004891	Reserve to I-10	\$1,882
Urban Systems, Inc.	Traffic	No.4400022581 H.011221.5	I-10: NO CBD 3 (Poydras-Louisa)	\$100,364
Urban Systems, Inc.	Traffic	No.4400024185 H.015424.5	LA 67 Plank Road over US 61 (Airline Highway) TMP	\$2,914
Advanced Bridge Design, PLLC	None	None	None	None

20. Certifications/Licenses:

If advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.

 LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Michael David Chopin

License/Certificate Type - Number Expiration Date
PE.0026797 09/30/2024

Status: **Active**

 LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Andrew Robert Jensen

License/Certificate Type - Number Expiration Date
PE.0043382 09/30/2025


Status: **Active**

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
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Phone (225) 925-6291
www.lapels.com

Mr. Rene' Adrian Chopin IV

License/Certificate Type - Number Expiration Date
PE.0042349 09/30/2024


Status: **Active**

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Henry Maurice Picard III

License/Certificate Type - Number Expiration Date
PE.0022289 03/31/2025


Status: **Active**

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. David Edward Boyd

License/Certificate Type - Number Expiration Date
PE.0035510 09/30/2024


Status: **Active**

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Renee Poole

License/Certificate Type - Number Expiration Date
PE.0047869 09/30/2025


Status: **Active**

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Henry Maurice Picard III

License/Certificate Type - Number Expiration Date
PLS.0004736 03/31/2025


Status: **Active**

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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Timothy James Koenig

License/Certificate Type - Number Expiration Date
PE.0035079 03/31/2024


Status: **Active**

 LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Bailee Leah Hurm

License/Certificate Type - Number Expiration Date
EI.0034435 09/30/2024


Status: **Active**

 LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Rene' Adrian Chopin III

License/Certificate Type - Number Expiration Date
PE.0025174 09/30/2025

Status: **Active**

 LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Rebecca Moore Jensen Chopin

License/Certificate Type - Number Expiration Date
PE.0041841 03/31/2024

Status: **Active**

20. Certifications/Licenses:

If advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.



Self-Certification demonstrating the status of Burk-Kleinpeter, Inc. as a Small Business

Are you a small business eligible for government contracting?

541330 Engineering Services	Small Business Size Standards \$16,500,000 annual revenue	 YES
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Exception #1 Military and Aerospace Equipment and Military Weapons	Small Business Size Standards \$41,500,000 annual revenue	 YES
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Exception #2 Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992	Small Business Size Standards \$41,500,000 annual revenue	 YES
--	--	---

Exception #3 Marine Engineering and Naval Architecture	Small Business Size Standards \$41,500,000 annual revenue	 YES
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Results derived from the "Measure My Business" tool at www.sba.gov/size demonstrating that Burk-Kleinpeter, Inc. is a "small" business according to the SBA standard for our industry (NAISC codes).

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Public Address:

Burk-Kleinpeter, Inc.

P. O. Box 19087
New Orleans, 


License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000124	Active	09/12/1984	09/30/2025	Mr. Rene' Adrian Chopin III # PE.0025174


The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Burk-Kleinpeter, Inc. Public Address: P. O. Box 19087
New Orleans,

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000024	Active	09/12/1984	09/30/2025	Mr. Henry Maurice Picard III # PLS.0004736

Alison Catarella Michel, P.E., PTOE, PTP, RSP2i



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
 9643 Brookline Avenue, Suite 121
 Baton Rouge, LA 70809
 Phone (225) 925-6291
 www.lapels.com

Ms. Alison Marie Catarella Michel

License/Certificate Type - Number	Expiration Date
PE.0030261	03/31/2025

Status: **Active**

Commonwealth of Pennsylvania
 Department of State
 Bureau of Professional and Occupational Affairs
 PO BOX 2649 Harrisburg PA 17105-2649

23 0301518

License Type
 Professional Engineer
 ALISON M CATARELLA-MICHEL
 400 N PETERS SUITE 206
 NEW ORLEANS, LA 70130

License Status
 Active
 Initial License Date
 05/10/2006

License Number
 PE073472

Expiration Date
 09/30/2025

Acting Commissioner Arion R. Claggett
 Signature
 Alison Catarella Michel



DESTINATION ZERO DEATHS

This certificate of training is presented to
ALISON MICHEL

In Recognition of Attending
Highway Safety Manual Workshop
 Baton Rouge, Louisiana

Elizabeth Wemple, PE 18.0 Professional Development Hours
 Eric Tang, PE Nov 30—Dec 2, 2011
 Instructor Date

STATE OF ALABAMA
 BOARD OF LICENSURE FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

ALISON CATARELLA-MICHEL

Is duly licensed as a
PROFESSIONAL ENGINEER

License Number: **PE27740**
 Status: **Active**
 Expire Date
12/31/2025

William R. Huett
 Executive Director

Transportation Professional Certification Board, Inc.
 certifies that
Alison Marie Catarella Michel
 has met all of the requirements established by the Certification Board
 to use the title of
Professional Transportation Planner
 unless withdrawn by the Certification Board and subject to the provisions for renewal.
 Certificate number 626 issued in Washington, D.C., U.S.A.

11/2017

 11/2017

Michael K. Park
 Chair

Jeffrey F. Dinasti
 Executive Director

Transportation Professional Certification Board, Inc.
 certifies that
Alison Catarella Michel
 has met all of the requirements established by the Certification Board
 to use the title of
Road Safety Professional
 unless withdrawn by the Certification Board and subject to the provisions for renewal.
 Certificate number 115 issued in Washington, D.C., U.S.A.
 12/21/2013

 12/21/2013

Diane Morabito
 Chair

Jeffrey F. Dinasti
 Executive Director

PTP 626
 Exp. Date 11/20/2026

RSP₁ 113
 Exp. Date 12/21/2024



National Highway Institute

Certificate of Training

Alison Michel

has participated in

NHI Course No. 142005 - NEPA and Transportation Decision Making

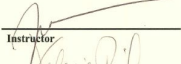
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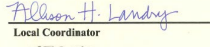
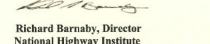
LA DOTD/LTRC

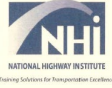
Date: May 28-30, 2014

Hours of Instruction: 18

Location: Baton Rouge, LA


Instructor


Local Coordinator

Richard Barnaby, Director
National Highway Institute



The Transportation Professional Certification Board

Certifies that

Ms. Alison Catarella Michel, PE,PTOE,PTP,RSP2I
successfully renewed the Road Safety Professional® (Level 1) certification

Original Certification Date: 12/21/2018

Certification Valid Through: 12/21/2024



Jeffrey F. Paniati,
Executive Director and CEO






Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 115

Certificate of Completion
presented to
Alison Catarella-Michel
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**

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

Professional Development
Hours (PDH): Awarded: 4




 Assistant Instructor
 Assistant Instructor
 Assistant Instructor




Certificate of Completion
presented to
Alison Catarella-Michel
for completing the
**Traffic Engineering Analysis Process & Report
Module 1**

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

Professional Development
Hours (PDH): Awarded: 4




 Assistant Instructor
 Assistant Instructor
 Assistant Instructor




Certificate of Completion
presented to
Alison Catarella-Michel
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**

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

Professional Development
Hours (PDH): Awarded: 3

 Assistant Instructor
 Assistant Instructor
 Assistant Instructor




The Transportation Professional Certification Board

Certifies that

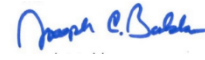
Ms. Alison Catarella Michel, PE,PTOE,PTP,RSP2I
successfully renewed the Road Safety Professional Infrastructure® (Level 2) certification

Original Certification Date: 3/20/2023

Certification Valid Through: 3/20/2026



Jeffrey F. Paniati,
Executive Director and CEO



Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 148

Christine M. Darrah, P.E.



PROOF OF CERTIFICATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Christine Darrah

THIS INDIVIDUAL IS CERTIFIED BY ATSSA AS A

Louisiana Traffic Control Supervisor

This certified individual has demonstrated a thorough knowledge of the standards, guidelines and practices of traffic control in highway construction and maintenance work areas; has completed all the requirements of the American Traffic Safety Services Association Certification Program to the satisfaction of the Certification Board; and is hereby awarded the above designation. This certified individual is fully entitled to all the rights and privileges associated with this designation. This certificate will remain in effect until the expiration date noted herein unless otherwise revoked by action of the Certification Board.

Donna M. Clark

ISSUE DATE 4/8/2021
EXPIRATION DATE 4/7/2025
CERTIFICATION# 873755

Ramona Smith



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Christine Mire Darrah

License/Certificate Type - Number

PE.0028528

Expiration Date

09/30/2025

Status: **Active**

CERTIFICATE

Louisiana Urban Stormwater Coalition

**WATERWISE
NOLA**

hereby recognizes that

Christine Darrah



has completed the LUSC Training

Design, Construction & Maintenance of Green Infrastructure

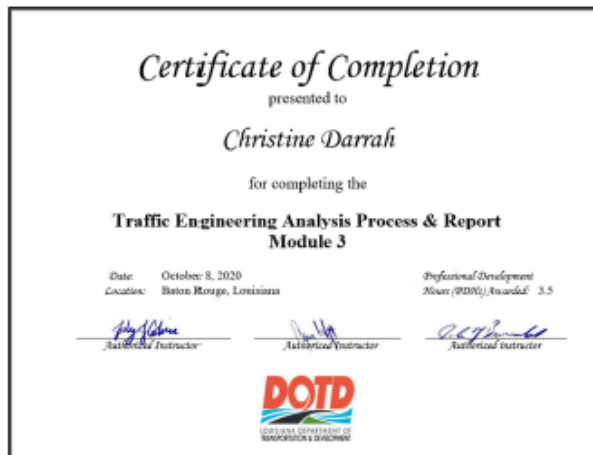
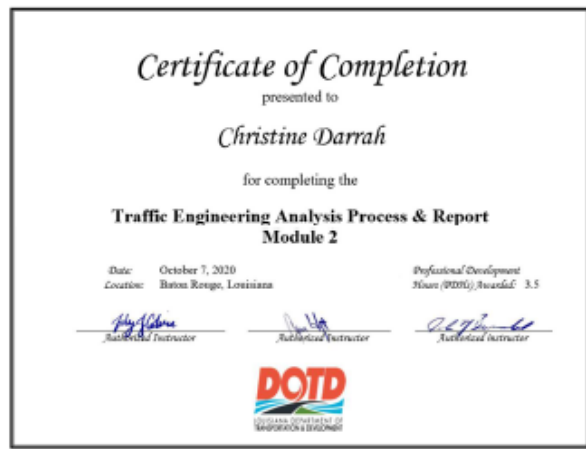
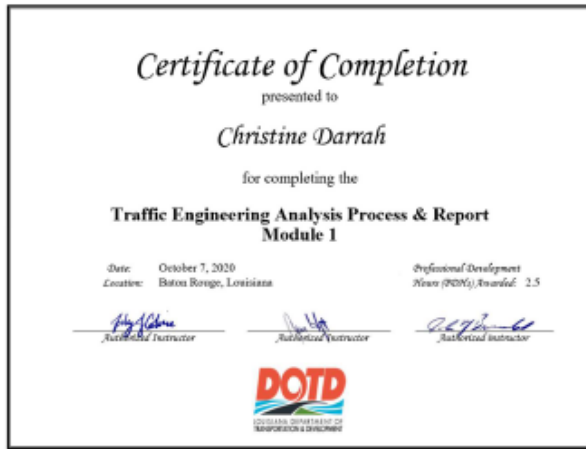
(8 hours of Classroom Instruction)

and is now a Water Wise NOLA certified Green Infrastructure Professional 1

06/19/2015
Date

Dana Flanagan
Instructor





Matthew H. Morgan



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)

9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Matthew Hansen Morgan

License/Certificate Type - Number

Expiration Date

EI.0033492

03/31/2024

Status: **Active**

Louisiana Professional Engineering and Land Surveying Board

Hereby Certifies that
Mr. Matthew Hansen Morgan
has satisfied the applicable requirements and is therefore licensed as a
Professional Engineer
and hereby entitled to practice engineering in the State of Louisiana.

Baton Rouge, Louisiana - August 11, 2022



License Number PE.0047060

Chris Richal
Edgar B. ...

Certificate of Training

this certifies that

Matthew M. Morgan

has successfully completed the training
program requirements for

National Flagger Certification Training Course







Awarded on this 23rd day of August 2022

This certificate is valid for 30 days from the date awarded.

Certificate of Completion
presented to
Matthew Morgan
for completing the
**Traffic Engineering Analysis Process & Report
Module 1**




Date: February 23, 2019 Professional Development
Location: Bridge City, Louisiana Hours (PDHs) Awarded: 2





 Authorized Instructor Authorized Instructor Authorized Instructor



Certificate of Completion
presented to
Matthew Morgan
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**

Date: February 23, 2019 Professional Development
Location: Bridge City, Louisiana Hours (PDHs) Awarded: 3




 Authorized Instructor Authorized Instructor Authorized Instructor



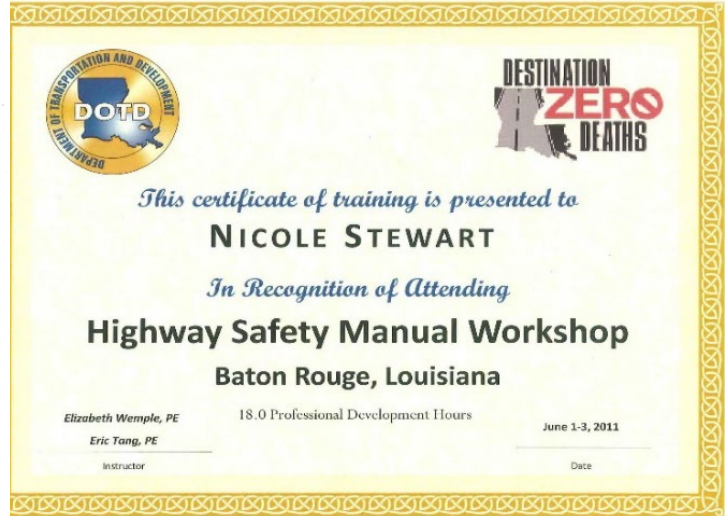
Certificate of Completion
presented to
Matthew Morgan
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**

Date: February 26, 2019 Professional Development
Location: Bridge City, Louisiana Hours (PDHs) Awarded: 3




 Authorized Instructor Authorized Instructor Authorized Instructor





PROOF OF CERTIFICATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Nicole Stewart

THIS INDIVIDUAL IS CERTIFIED BY ATSSA AS A

Traffic Control Supervisor

This certified individual has demonstrated a thorough knowledge of the standards, guidelines and practices of traffic control in highway construction and maintenance work areas; has completed all the requirements of the American Traffic Safety Services Association Certification Program to the satisfaction of the Certification Board; and is hereby awarded the above designation. This certified individual is fully entitled to all the rights and privileges associated with this designation. This certificate will remain in effect until the expiration date noted herein unless otherwise revoked by action of the Certification Board.

Donna M. Clark

ISSUE DATE 11/4/2020
EXPIRATION DATE 11/3/2024
CERTIFICATION # 840319

Ramona B. Hill



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Nicole Harris Stewart

License/Certificate Type - Number Expiration Date
PE.0034750 **09/30/2025**

Status: **Active**



The Transportation Professional Certification Board

Certifies that

Mrs. Nicole H. Stewart, P.E., PTOE
successfully renewed the Professional Traffic Operations Engineer® certification

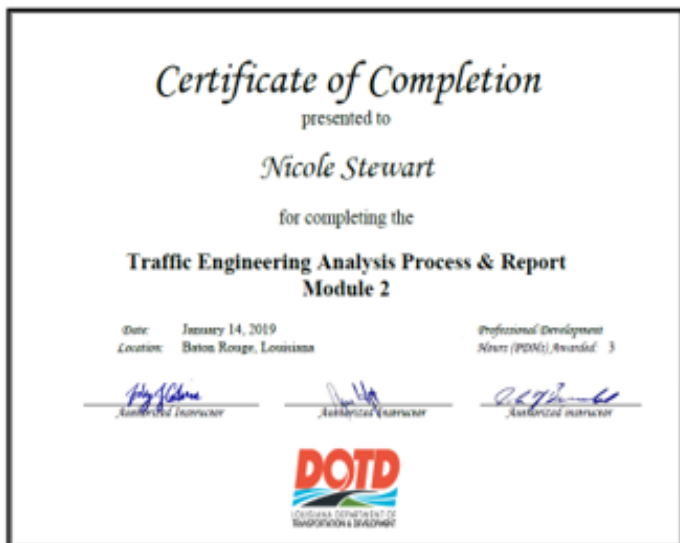
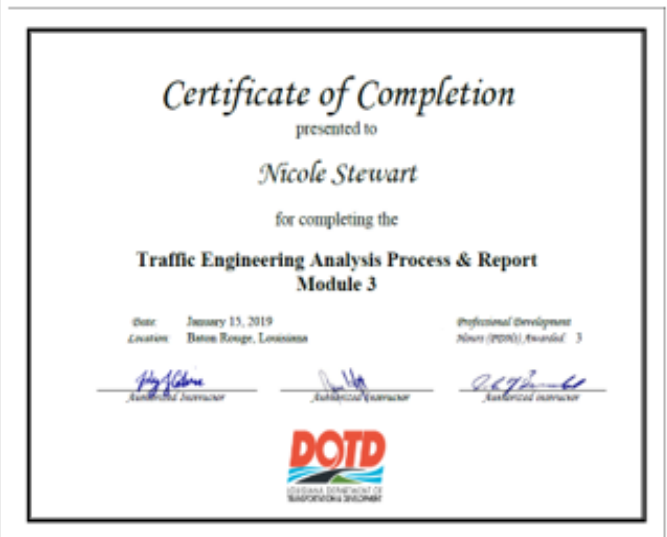
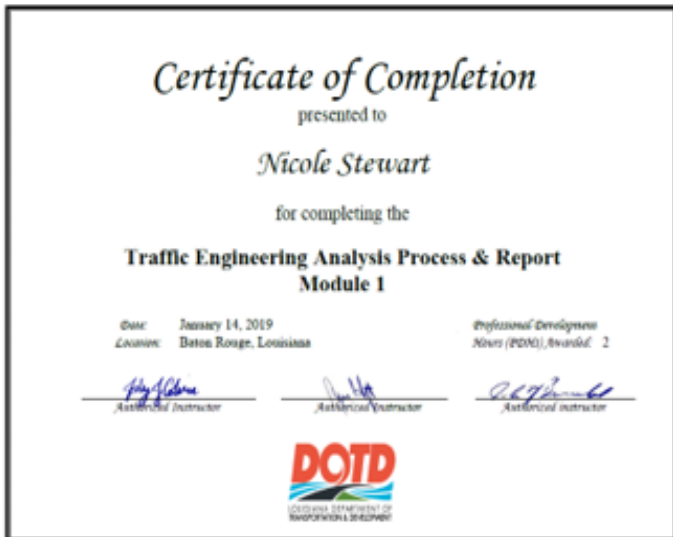
Original Certification Date: 8/14/2012

Certification Valid Through: 8/14/2024

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 2923



The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
Urban Systems, Inc. Ms. Alison Marie Catarella
 2000 Tulane Avenue, Suite 200
 New Orleans, Louisiana 70112

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0001342	Active	09/22/1986	03/31/2025	Ms. Alison Marie Catarella Michel # PE.0030261



LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations
& under the State of Louisiana United Certification Program (LAUCP)

Urban System Associates, Inc.

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC541330, NC541340, NC541990

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: February 2023 to February 2024

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager
Louisiana Department of Transportation & Development

WBENC

WOMEN'S BUSINESS ENTERPRISE
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

hereby grants

National Women's Business Enterprise Certification

to

URBAN SYSTEMS ASSOCIATES, INC. DBA Urban Systems

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).
This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

WBENC National WBE Certification was processed and validated by Women's Business Enterprise Council - South, a WBENC Regional Partner Organization.

Certification Granted: May 22, 2020
Expiration Date: May 31, 2024
WBENC National Certification Number: WBE2001268



WBENC SOUTH
WOMEN'S BUSINESS ENTERPRISE COUNCIL
JOIN FORCES. SUCCEED TOGETHER.

Authorized by Phala Mire, President Women's
Business Enterprise Council - South

NAICS: 541330, 541340
UNSPSC: 70131701, 80101605, 81101500, 81101502, 81101510, 81101524, 81102200, 81102201





WOMEN'S BUSINESS ENTERPRISE
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

**HEREBY GRANTS
WOMAN OWNED SMALL BUSINESS (WOSB) CERTIFICATION TO**

URBAN SYSTEMS ASSOCIATES, INC. DBA Urban Systems

The identified small business is an eligible WOSB for the WOSB Program, as set forth in 13 C.F.R. part 127 and has been certified as such by an SBA approved Third Party Certifier pursuant to the Third Party Agreement, dated June 30, 2011, and available at www.sba.gov/wosb.

The WOSB Certification expires on the date herein unless there is a change to the SBA's regulation that makes the WOSB ineligible or there is a change in the WOSB that makes the WOSB ineligible. If either occurs, this WOSB Certification is immediately invalid. The WOSB must not misrepresent its certification status to any other party, including any local or State government or contracting official or the Federal government or any of its contracting officials.

Majority Female Owner: ALISON MICHEL
NAICS: 541330, 541340 UNSPSC: 70131701, 80101605, 81101500, 81101502, 81101510, 81101524, 81102200, 81102201
Certification Number: WOSB200724
Renewal Date: May 31, 2024
WOSB Regulation Expiration Date: 5/31/2024



Phala Mire, Women's Business Enterprise Council - South President

Pamela Prince-Easton, WBENC President & CEO

LaKesha White, Vice President, Certification



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Urban Systems Associates, Inc.
DBA: Urban Systems, Inc.

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 6/12/2023 to 6/12/2024 .

Certification No. 19041

A handwritten signature in black ink that reads "Stephanie Hartman". The signature is written in a cursive style and is positioned above a horizontal line.

Stephanie Hartman,
Director, Entrepreneurial Services



CITY OF BATON ROUGE
PARISH OF EAST BATON ROUGE

URBAN SYSTEMS ASSOCIATES, INC.

has successfully completed the requirements approved by the
City of Baton Rouge, Parish of East Baton Rouge and is
therefore awarded this

**CERTIFICATE OF
SED BE CERTIFICATION**

APRIL 20, 2023

10/09/23



Urban Systems, Inc

Became a member of the Avetta Consortium on:

10/05/23

This document certifies that the company above is a Member of the Avetta Consortium. Being an Avetta Consortium Member signifies that you are part of a global effort to advance company and worker safety, sustainability, and operational excellence. Consortium Members represent a pursuit of excellence in delivery, safety and sustainability.

Arshad Matin

Arshad Matin, President and CEO



Taylor Allis


Taylor Allis, Chief Product Officer



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/5/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Saeed Doust Ph.D.
4508 Gilbertson Road
Fairfax, Virginia 22032-3614

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Saeed Doust Ph.D.	
License/Certificate Type - Number	Expiration Date
PE.0038907	09/30/2024
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

← Cut Here

Fold Here →

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

Commonwealth of Virginia



STATE CORPORATION COMMISSION

Richmond, October 7, 2021

This is to certify that the certificate of organization of

Advanced Bridge Design, PLLC

was this day issued and admitted to record in this office and that the said limited liability company is authorized to transact its business subject to all Virginia laws applicable to the limited liability company and its business.

Effective date: October 7, 2021



STATE CORPORATION COMMISSION

Attest:

A handwritten signature in cursive script, appearing to read "Bernard J. St. John".

Clerk of the Commission



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Saeed Doust

has Successfully Completed

***130056 Safety Inspection of In-Service Bridges for
Professional Engineers***

hosted by

Suyash Consulting, LLC

Date: January 03-07, 2022

Hours of Instruction: 34

Location: Columbia, MD

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Saeed Doust

has Successfully Completed

***130056 Safety Inspection of In-Service Bridges for
Professional Engineers***

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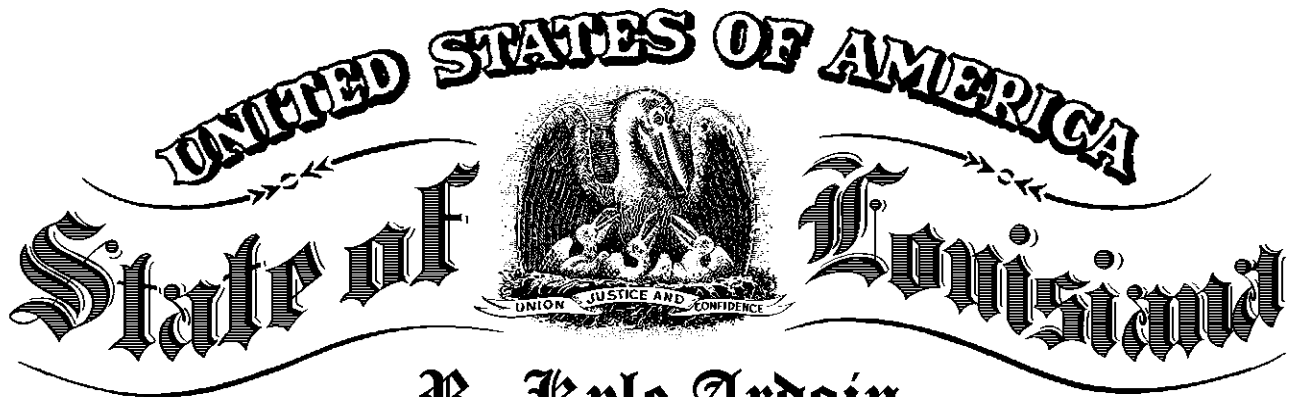
Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute



R. Kyle Ardoin
SECRETARY OF STATE

As Secretary of State of the State of Louisiana, I do hereby Certify that

the Application Form for Certificate of Authority of

ADVANCED BRIDGE DESIGN, PLLC

Domiciled at FAIRFAX, VIRGINIA,

Was filed and recorded in this Office on October 19, 2021.

Thus authorizing the limited liability company to exercise the same rights and privileges accorded similar domestic limited liability companies, subject to the provisions of R. S. Title 12, Chapter 22, Part VIII.

In testimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Baton Rouge on,

October 19, 2021

Secretary of State

WEB 44636639Q



Certificate ID: 11471671#EGG62

To validate this certificate, visit the following web site, go to **Business Services, Search for Louisiana Business Filings, Validate a Certificate**, then follow the instructions displayed.
www.sos.la.gov

Commonwealth of Virginia



State Corporation Commission

CERTIFICATE OF FACT

I Certify the Following from the Records of the Commission:

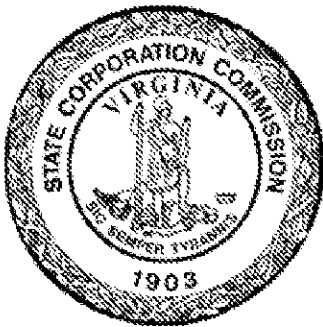
That Advanced Bridge Design, PLLC is duly organized as a Limited Liability Company under the law of the Commonwealth of Virginia;

That the Limited Liability Company was formed on October 7, 2021; and

That the Limited Liability Company is in existence in the Commonwealth of Virginia as of the date set forth below.

That the limited liability company is current in the payment of all registration fees assessed against it by the Commission pursuant to the Virginia Limited Liability Company Act as of the date set forth below.

Nothing more is hereby certified.



Signed and Sealed at Richmond on this Date:

October 18, 2021

A handwritten signature in black ink, appearing to read "Bernard J. Logan".

Bernard J. Logan, Clerk of the Commission



Agent Affidavit and Acknowledgement of Acceptance

Charter Number: 44636639Q

Charter Name: ADVANCED BRIDGE DESIGN, PLLC

The agent / agents listed below accept the appointment of registered agent for and on behalf of the Charter Name above.

Date Responded	Agent(s)	Agent(s) Electronic Signature
10/19/2021	SAEED DOUST	SAEED DOUST

Louisiana Professional Engineering
and
Land Surveying Board

Hereby Certifies that

Advanced Bridge Design, PLLC

has satisfied the applicable requirements and is therefore licensed as a

Professional Engineering Firm

and hereby entitled to practice engineering in the State of Louisiana.

Baton Rouge, Louisiana · October 26, 2021



License Number EF.0007195

A blue ink signature, appearing to be "Edger Bent", written in a cursive style.

Chairman

A blue ink signature, appearing to be "Edger Bent", written in a cursive style.

Secretary

W



URBAN SYSTEMS ASSOCIATES INC

Unique Entity ID ZN22EMHUA3Y5	CAGE / NCAGE 3RYK8	Purpose of Registration All Awards
Registration Status Active Registration	Expiration Date Jan 9, 2025	
Physical Address 2000 Tulane AVE # 200 New Orleans, Louisiana 70112-2250 United States	Mailing Address 2000 Tulane AVE Suite 200 New Orleans, Louisiana 70112-2250 United States	

Business Information

Doing Business as URBAN SYSTEMS	Division Name (blank)	Division Number (blank)
Congressional District Louisiana 02	State / Country of Incorporation Louisiana / United States	URL http://www.urbansystems.com

Registration Dates

Activation Date Jan 11, 2024	Submission Date Jan 10, 2024	Initial Registration Date Mar 10, 2004
--	--	--

Entity Dates

Entity Start Date Nov 12, 1974	Fiscal Year End Close Date Dec 31
--	---

Immediate Owner

CAGE (blank)	Legal Business Name (blank)
------------------------	---------------------------------------

Highest Level Owner

CAGE (blank)	Legal Business Name (blank)
------------------------	---------------------------------------

Executive Compensation

In your business or organization's preceding completed fiscal year, did your business or organization (the legal entity to which this specific SAM record, represented by a Unique Entity ID, belongs) receive both of the following: 1. 80 percent or more of your annual gross revenues in U.S. federal contracts, subcontracts, loans, grants, subgrants, and/or cooperative agreements and 2. \$25,000,000 or more in annual gross revenues from U.S. federal contracts, subcontracts, loans, grants, subgrants, and/or cooperative agreements?

No

Does the public have access to information about the compensation of the senior executives in your business or organization (the legal entity to which this specific SAM record, represented by a Unique Entity ID, belongs) through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986?

Not Selected

Proceedings Questions

Is your business or organization, as represented by the Unique Entity ID on this entity registration, responding to a Federal procurement opportunity that contains the provision at FAR 52.209-7, subject to the clause in FAR 52.209-9 in a current Federal contract, or applying for a Federal grant opportunity which contains the award term and condition described in 2 C.F.R. 200 Appendix XII?

No

Does your business or organization, as represented by the Unique Entity ID on this specific SAM record, have current active Federal contracts and/or grants with total value (including any exercised/unexercised options) greater than \$10,000,000?

Not Selected

Within the last five years, had the business or organization (represented by the Unique Entity ID on this specific SAM record) and/or any of its principals, in connection with the award to or performance by the business or organization of a Federal contract or grant, been the subject of a Federal or State (1) criminal proceeding resulting in a conviction or other acknowledgment of fault; (2) civil proceeding resulting in a finding of fault with a monetary fine, penalty, reimbursement, restitution, and/or damages greater than \$5,000, or other acknowledgment of fault; and/or (3) administrative proceeding resulting in a finding of fault with either a monetary fine or penalty greater than \$5,000 or reimbursement, restitution, or damages greater than \$100,000, or other acknowledgment of fault?

Not Selected

Exclusion Summary

Active Exclusions Records?

No**SAM Search Authorization**

I authorize my entity's non-sensitive information to be displayed in SAM public search results:

Yes**Entity Types****Business Types**

Entity Structure

Corporate Entity (Not Tax Exempt)

Entity Type

Business or Organization

Organization Factors

(blank)

Profit Structure

For Profit Organization**Socio-Economic Types****Self Certified Small Disadvantaged Business****Economically Disadvantaged Women Owned****Small Business****Women-Owned Small Business****Women-Owned Business****DOT Certified DBE**

Check the registrant's Reps & Certs, if present, under FAR 52.212-3 or FAR 52.219-1 to determine if the entity is an SBA-certified HUBZone small business concern. Additional small business information may be found in the SBA's Dynamic Small Business Search if the entity completed the SBA supplemental pages during registration.

Financial Information

Accepts Credit Card Payments

No

Debt Subject To Offset

No

EFT Indicator

0000

CAGE Code

3RYK8**Electronic Funds Transfer**

Account Type

Checking

Routing Number

*******53**

Lock Box Number

(blank)

Financial Institution

HANCOCK WHITNEY BANK

Account Number

*******09****Automated Clearing House**

Phone (U.S.)

5047291355

Email

(blank)

Phone (non-U.S.)

(blank)

Fax

(blank)**Remittance Address****URBAN SYSTEMS ASSOCIATES, INC.****2000 Tulane Avenue****Suite 200****New Orleans, Louisiana 70112****United States****Taxpayer Information**

EIN

*******2903**

Type of Tax

Applicable Federal Tax

Taxpayer Name

URBAN SYSTEMS ASSOCIATES INC

Tax Year (Most Recent Tax Year)

2022

Name/Title of Individual Executing Consent

President/transportation Engineer

TIN Consent Date

Jan 10, 2024

Address

2000 Tulane AVE**New Orleans, Louisiana 70112**

Signature

Alison Catarella Michel

Points of Contact**Accounts Receivable POC**

Alison Catarella-Michel, principal
acmichel@urbansystems.com
5045693971

Electronic Business

Alison Catarella-Michel, Principal
acmichel@urbansystems.com
5045693958

Nicole H Stewart
 nhstewart@urbansystems.com
 5045235511

2000 Tulane Avenue
Suite 200
New Orleans, Louisiana 70112
United States

2000 Tulane Avenue
 Suite 200
 New Orleans, Louisiana 70112
 United States

Government Business

Alison Catarella-Michel, Principal
acmichel@urbansystems.com
5045693958

Alison Catarella-Michel
 acmichel@urbansystems.com
 5045235511

2000 Tulane Avenue
Suite 200
New Orleans, Louisiana 70112
United States

2000 Tulane Avenue
 Suite 200
 New Orleans, Louisiana 70112
 United States

Past Performance

Alison Catarella-Michel
acmichel@urbansystems.com
5045235511

Alison Catarella-Michel
 acmichel@urbansystems.com
 5045235511

2000 Tulane Avenue
Suite 200
New Orleans, Louisiana 70112
United States

2000 Tulane Avenue
 Suite 200
 New Orleans, Louisiana 70112
 United States

Service Classifications**NAICS Codes**

Primary	NAICS Codes	NAICS Title
Yes	541330	Engineering Services
	541340	Drafting Services
	541990	All Other Professional, Scientific, And Technical Services

Size Metrics**IGT Size Metrics**

Annual Revenue (from all IGTs)
(blank)

Worldwide

Annual Receipts (in accordance with 13 CFR 121) **\$2,241,325.00**
 Number of Employees (in accordance with 13 CFR 121) **15**

Location

Annual Receipts (in accordance with 13 CFR 121) **(blank)**
 Number of Employees (in accordance with 13 CFR 121) **(blank)**

Industry-Specific

Barrels Capacity **(blank)**
 Megawatt Hours **(blank)**
 Total Assets **(blank)**

Electronic Data Interchange (EDI) Information

Feb 27, 2024 04:31:44 PM GMT
<https://sam.gov/entity/ZN22EMHUA3Y5/coreData?status=null>

This entity did not enter the EDI information

Disaster Response

Yes, this entity appears in the disaster response registry.

Bonding Levels	Dollars
(blank)	(blank)

States
Alabama
Louisiana
Mississippi

Counties
(blank)

Metropolitan Statistical Areas
(blank)

21. QA/QC Plan:

If advertisement requires submission of QA/QC plan, include them 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.

Quality Control/Quality Assurance Plan

for

Contract No. 4400028434

LA 44: Pelican Point Roundabout and Widen

H.015568

Districts 61

Prepared by



BURK-KLEINPETER, INC.

ENGINEERING

PLANNING

ENVIRONMENTAL

For



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

February 6, 2024

Quality Control/Quality Assurance Plan

Contract No. 4400028434

Contents

Key Personnel.....	ii
1. Introduction.....	1
2. Definitions and Abbreviations.....	1
3. QC/QA Process.....	3
4. Software.....	8
<i>Appendix A: Consultant Submittal QC/QA Certification</i>	
<i>Appendix B: BKI Pre-Design/Planning Report</i>	
<i>Appendix C: Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist</i>	
<i>Appendix D: Design Criteria Checklist</i>	
<i>Appendix E: Status of Drawings and Other Submittals Form</i>	
<i>Appendix F: Final Calculation Book Checklist</i>	
<i>Appendix G: Color-Coded Marking Procedures</i>	
<i>Appendix H: QA Information Package Checklist</i>	
<i>Appendix I: QC/QA Certification</i>	
<i>Appendix I.1: QC/QA Certification of the Status of Bridge Design Calculations</i>	
<i>Appendix J: Peer Review Resolution Agreement</i>	
<i>Appendix K: Software Approval</i>	
<i>Appendix L: Software Verification</i>	
<i>Appendix M: Road Design 100% Preliminary Plans QA/QC</i>	
<i>Appendix N: Road Design Final Plans QA/QC</i>	

Key Personnel
Quality Control/Quality Assurance Plan
Contract No. 4400028434

Project Manager: Andrew Jensen, P.E.

Engineer of Record: René A. Chopin, III, P.E.

Reviewer: Michael D. Chopin, P.E.

Designer/Design Checkers* :

Andrew Jensen, P.E.	Responsible for the project management and road design
René A. Chopin, III, P.E.	Responsible for road and bridge design oversight
Henry Picard, III, P.E.	Responsible for road and drainage design oversight
Rebecca Chopin, P.E.	Responsible for bridge design
Bailee Hurm, E.I.	Responsible for road and bridge design
Timothy J. Koenig, P.E.	Responsible for road design
René A. Chopin, IV, P.E.	Responsible for drainage design
David Boyd, P.E.	Responsible for hydraulics and hydrology
Renée Poole, P.E.	Responsible for hydraulics and hydrology
Alison Michel, P.E., P.T.O.E.	Responsible for Traffic Engineering (USI)
Saeed Doust, P.E.	Responsible for bridge evaluation and ratings (ABD)

*EI design work must be checked by a registered P.E.

Detailers/Detail Checkers:

George Vega	Lead CAD Technician
Shelby Galatas	CAD Drafter

Hydraulic Engineer: David Boyd, P.E.

Quality Control/Quality Assurance Plan

for

Contract No. 4400028434

LA 44: Pelican Point Roundabout and Widen

H.015568

Districts 61

1. Introduction

In order to improve the quality of the structural designs, roadway plans, plans for bridges, and other structures required for the project, Burk-Kleinpeter, Inc. (BKI) has established this QC/QA plan document for the project. This QC/QA plan shall be adhered to for all design activities in both the design phase and the construction support phase of the project. **All submittals to the LADOTD shall include a QC/QA Certification stating that the submittal has been prepared in accordance with this QC/QA plan** (see Appendix A).

BKI is responsible for fully checking all of our work and of our sub-consultants. The review of all designs and checking of plans, calculations, specifications, and estimates should meet the standard of care performed by the LADOTD's Bridge Design and Road Design Sections. This QC/QA plan complies with the minimum requirements set in the "Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-017)" (FHWA/AASHTO Guidance) published by FHWA and AASHTO August 2011 and the LADOTD Bridge Design and Evaluation Manual, Part I – Policies and Procedures, Chapter 3 Policy for QC/QA. This plan shall also address the Road Design 100% Preliminary QA/QC Review Checklist (appendix M) and the Road Design Final QA/QC Review Checklist (appendix N) items applicable to the project.

2. Definitions and Abbreviations

Quality Control (QC) - The act of reviewing and checking the design, the calculations, and the plans for accuracy and consistency. Review consists of verifying general conformance of the design with the project objectives and DOTD's policies. Checking consists of detailed verification of design and details. QC shall be thorough, appropriate to the project in order to detect and correct design omissions and errors before the plans are finalized and verify the designs and details for the load-carrying members are adequate for the service and operation loads. All steps of the QC procedure shall be documented.

Quality Assurance (QA) - The steps needed to verify quality. This is a defined set of procedures to be carried out at the management and senior technical levels with measurable and verifiable actions to ensure that quality procedures are in place and effective in preventing mistakes, and consistency in the development of roadway plans, bridge design plans, and specifications.

Designer – The designer must be licensed by the State of Louisiana as a professional engineer or an engineer intern, who is responsible for the development of design calculations, drawings, special provisions including Non-Standard items, and cost estimate.

Detailer – The detailer is an individual directly responsible for the creation of CAD drawings under the supervision of the designer in accordance with LADOTD Software and Deliverable Standards for Electronic Plans document and LADOTD CAD Standards.

Design Checker – The design checker must be licensed by the State of Louisiana as a professional engineer or an engineer intern, who is responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items, and cost estimate. ***The design checker must be licensed by the State of Louisiana as a professional engineer if the designer is an engineer intern.*** The design checker shall not be the same individual who performed the original design.

Detail Checker – The detail checker can be a designer or a detailer, who is responsible for performing a full review of the CAD drawings. The detail checker shall not be the same individual who developed the original details.

Reviewer – The reviewer must be licensed by the State of Louisiana as a professional engineer and must have substantial experience in the design of similar roadways and structures as those of the project. This individual is responsible for performing QA procedures for assuring that the QC processes have been performed and are complete and the design calculations, drawings, special provisions, and cost estimate are in accordance with LADOTD Road Design and Bridge Design practices, policies, and procedures.

Engineer of Record (EOR) – The EOR is a licensed professional engineer in the State of Louisiana meeting or exceeding the minimal experience requirements in the design of similar roadways and structures to those of the project, who is responsible for the supervision and/or preparation of plans, sealing calculations, plans and special provisions for all roadways, bridges, and other structures for the project.

3. QC/QA Process

Step 1: Designation of a Qualified Design Team

BKI's President, Michael D. Chopin, P.E. will assign a Project Manager (PM) who will also function as the EOR for the project. The PM will select the design team from qualified BKI personnel and enlist the services of qualified sub-consultants to fulfill technical roles outside of BKI's area of expertise. The design team members and sub-consultants shall meet or exceed the minimum personnel requirements as prescribed in the LADOTD Request for Qualifications (RFQ) for the project.

The PM is responsible for assigning the team members responsibility for specific design and detailing activities. The PM is also responsible for assigning team members for QC of the work performed. BKI's President will act as the Reviewer and or designate other qualified personnel (not performing design and detailing on the project) for QA procedures.

The project team was identified in BKI's Statement of Qualifications SF24-102. The latest Key Personnel assigned to the project are listed under the Key Personnel section of this plan. BKI will ensure that the original team members shown of SF24-102 are utilized. If a need arises for change in personnel, the replacement staff member(s) credentials shall meet or exceed those of the original staff member(s) to be replaced. All replacement personnel must be approved by LADOTD's Bridge Task Manager for bridge design and the Roadway Task Manager for road design.

Step 2: Design Kick-off Meeting and Pre-Design/Planning Meeting Report

Prior to the Design Kick-off meeting with the LADOTD, BKI will complete a draft BKI Pre-Design/Planning Meeting Report (see Appendix B). This meeting report will help facilitate discussion of LADOTD's Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist (see Appendix C).

The BKI Pre-Design/Planning Meeting Report will be updated based on discussion from the Design Kick-Off Meeting and distributed to the Bridge Task Manager, Roadway Task Manager, and BKI management.

Step 3: Development of Project Design Criteria

BKI will develop design criteria for the project covering at a minimum the LADOTD Design Criteria Checklist (see Appendix D). Prior to beginning any design work, BKI will submit the design criteria to the Bridge Task and Roadway Task Managers for approval. Upon approval BKI will adhere to the established design criteria. Any changes to the design criteria during the course of the project will be documented and a current list of the criteria shall be maintained at all times. Any design assumptions made or design exemptions obtained shall be listed in the design criteria and referenced in the design calculations and drawings as appropriate.

The EOR will create the Status of Drawings and Other Submittals Form (see Appendix E) for each milestone submittal. This form is to be updated weekly and a current copy kept with a full set of the latest design drawings to date. This form and the drawing set helps the EOR track the progress of the project along with coordinating sub-consultants from start to finish.

Step 4: Development of Designs and Plan Details by the Designer and the Detailer

The next item of work to follow the establishment of design criteria is to determine the bridge type, size and location (T, S & L). The T, S & L will be submitted to the Bridge Task Manager for approval prior to BKI commencing with any design of structural components. During the design process the designer must follow the design criteria established for the project. The designer is responsible to communicate his design information to the drawings by closely supervising the detailer. The drawings must adequately and accurately present the design information. Both the designer and the detailer shall check their own work prior to submitting it for QC.

All design calculations shall be organized and maintained in a standard calculation book format. At a minimum the final calculation book shall contain the items listed on the LADOTD Final Calculation book Checklist (see Appendix F).

Step 5: Quality Control of Designs and Plan Details by the Design Checker and the Detail Checker

The design check process verifies the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items, and cost estimate. This can be accomplished in one of two methods by the design checker; a redline check of the designers calculations or by producing an independent set of calculations and comparing the results. The PM shall determine the method to be utilized based on the complexity of the design element

being checked. The designer's calculations are the calculations of record and the original calculations must be updated to correct any errors or omissions found by the design checker. The updated set of calculations shall be verified by the design checker and then initialed in the checked by block. If an independent set of calculations is produced, these also will become part of the calculations of record. In addition to checking the design calculations, the design checker shall ensure that the drawings adequately and accurately present the design information.

During the detail check process, the detailer must ensure that the drawings are in accordance with the design information, the LADOTD Software and Deliverable Standards for Electronic Plans document and the LADOTD CAD Standards. All dimensions and quantity calculations must be verified. BKI utilizes a color-coded marking procedure for the QC of drawings (see Appendix G).

The checking process may begin at the completion of the entire design/detail process or may check components of the designer/detailer's work as it is completed. Likewise, the checker may provide feedback at the completion of the entire checking process or as each component of check is completed. On large complex projects with many different design elements of similar nature a check of the first designs and details of the elements will be performed in order to minimize repeated errors and corrections. Subsequent designs and details of the remaining elements will still be checked in full accordance with the QC processes.

Any discrepancies that arise shall be resolved between the designer/detailer and the checker, and the calculations and plans corrected accordingly. If the designer/detailer and the checker are unable to resolve their discrepancies, the issue shall be brought to the attention of the PM for a decision on resolution. Significant issue resolution that cannot be resolved at this level will be resolved by BKI's President.

The design and detail check shall be considered complete when the designer, design checker, detailer, and detail checker are satisfied with the state of the design calculations, drawings, special provisions, and cost estimate. The design and detail check shall be completed no later than the 95% Final Plans stage. Upon completion of the checking the designer will prepare a QA information package, which includes the documents listed below, and providing the package to the reviewer to perform quality assurance.

- QA Information Package Checklist (see Appendix H)
- Calculation book
- Plans
- Special Provisions including Non-Standard items

- Cost estimate
- Any relevant documents, such as checklists, review comments, etc., utilized by the designer, design checker, detailer, and detail checker

Note: If design revisions are required after the QA information package has been submitted, the reviewer must be notified of such revisions and supplied with the revised information.

Step 6: Quality Assurance of Designs and Plan Details by the Reviewer

The reviewer shall perform a cursory review of all documents in the QA information package submitted by the designer. This review should focus on constructability of the plan details; areas of critical structural importance; areas where based on the reviewer's experience, mistakes may typically be found; and areas that may be new to the design practice. The reviewer at their discretion can produce independent calculations to verify submitted information. The reviewer shall provide feedback to the designer and resolve all issues. The QA process must be completed no later than the 98% Final Plans stage. The design calculations, plan details, special provisions, and cost estimate shall be considered final when the QA process is complete. The QC/QA Certification (see Appendix I) shall be signed by the designer, design checker, detailer, detail checker, and reviewer. On more complex projects, Appendix I shall be supplemented with QC/QA Certification of the Status of Bridge Design Calculations (Appendix I.1) and the Status of Drawings and Others Deliverables Form (Appendix E). The Status of Bridge Design Calculations shall be signed by the designers and design checkers. The Status of Drawings and Other Deliverables shall be signed by the designers, design checkers, detailers, and detail checkers.

Step 7: Peer Review

For complex projects a peer review may be requested by the LADOTD. Peer review shall be performed by an independent engineering entity with no prior involvement in the project. **Peer review of any BKI products cannot be performed by an employee of BKI.** At the discretion of the LADOTD Bridge Task Manager the peer review of certain elements may be performed by a qualified sub-consultant. The peer reviewer must be licensed by the State of Louisiana as a professional engineer and must have substantial experience in the design of similar structures under review. The peer review comments must be submitted to LADOTD and BKI for evaluation. Resolutions agreed upon by all parties including the designer, peer reviewer, and LADOTD shall be incorporated into the final design. A Peer Review Resolution Agreement (see Appendix J) shall be signed by the peer reviewer, the PM and the LADOTD Bridge Task Manager. Depending on the scope of the review, peer reviews are typically performed between the 60% to 98% Final Plan stages.

Step 8: Sealing of Design Calculation Book and Plans by the Engineer of Record and BKI President

The responsibilities of the EOR are as follows:

- Ensure that the QC/QA certification is signed by all responsible parties.
- Ensure the geotechnical design information shown on bridge plans is co-stamped by a Geotechnical Engineer and the hydraulic information shown on bridge plans is co-stamped by a Hydraulic Engineer.
- Ensure that all drawings developed by sub-consultants are stamped by the appropriate engineer(s).
- Assemble the final calculation book and seal the cover sheet of the calculation book. The calculation book is to contain all calculations from all designers, sub-consultants, the final geotechnical analysis report stamped by the geotechnical engineer, and the final hydraulic report stamped by the hydraulic engineer.
- Ensure that the title block on each plan sheet has the names of the designer, design checker, detailer, detail checker, and reviewer correctly shown. Stamp all plan sheets developed under the EOR supervision. ***The EOR shall stamp the General Notes Sheet(s).*** Ensure that any sheets developed under the supervision of others is stamped by the designated designer, design checker, or reviewer licensed by the State of Louisiana as a professional engineer.
- Ensure that all special provisions developed by BKI and BKI's sub-consultants are accurate for inclusion in the construction proposal. The EOR will stamp the special provisions developed by BKI and BKI's sub-consultants. The EOR will submit the special provisions to the LADOTD Bridge Task and Roadway Task Managers.

The responsibilities of the BKI President are as follows:

- The BKI President or his designee shall stamp the title sheet when the stamped final plans are ready for submittal to the LADOTD Bridge Task Manager.

Step 9: QC/QA for Design Activities after Final Plans are Signed by the LADOTD Chief Engineer

BKI will use the same QC/QA process utilized for the design documents for all activities such as plan revisions, change orders, etc. occurring after the final plans have been signed by the LADOTD Chief Engineer.

Step 10: Archiving Bridge Design Files

The EOR is responsible to submit the following documents to the LADOTD Bridge Task Manager:

- Stamped Final Plans
- Stamped Special Provisions
- Cost Estimate
- The following will be submitted electronically by CD or Flash Drive or placed in a designated ProjectWise folder:
 - A PDF File of the Calculation Book
 - All Electronic Design Files
 - A PDF File of the As-Designed Rating Report Only
- Any revisions made to the above listed documents due to plan revisions and/or change orders along with the appropriate signed plan revisions or change order sheets.

BKI will retain these documents until five (5) years past Final Project Acceptance by the LADOTD.

4. Software

BKI will make every effort to utilize the LADOTD Bridge Design Section pre-approved software listed on the website. If any other software is required for any applications the pre-approved software cannot be used, BKI will seek approval from the Bridge Task Manager prior to the use of the software. A Software Approval form (see Appendix K) will be submitted with the request to the Bridge Task Manager.

All commercially available software and spreadsheets developed for design shall be validated and documented as follows:

- A hand calculation with the same formulation or parallel technique must be documented and checked in accordance with Step 5 of the QC/QA Process. Checked calculations from a previous project or the input and output from a validated program may be substituted for original hand calculations.
- The same input and assumptions utilized in the hand calculations are formatted and input in to the computer to check the software.
- The computer output is compared to the hand calculation results with each corresponding answer annotated as equivalent values. Any differences not accountable to rounding are to be explained on the output sheet.

- Complete documentation of the software validations are to be maintained by the PM. Documentation should include the Software Verification Form (see Appendix L), fully checked calculations, checked computer input, printout of program when available, and annotated output printout.

Commercially available programs, which come with validation documentation, are acceptable if project personnel review the documentation and determine that it conforms to the standards set forth herein and note as such on the Software Verification Form.

Appendix A
Consultant Submittal QC/QA Certification

Contract No.: 4400028434

Project Name: H.015568 LA 44: Pelican Point Roundabout and Widen

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

Submittal Description

Supervisor or Team Leader Name

Signature

Date

BURK-KLEINPETER INC.
Pre-Design / Planning Meeting Report
(form revised 08/01/2022)

Meeting

Meeting Date: -

Participants: Names...

Project and Phase Descriptions

Project Name: Project Name

Client: Client Name

BKI Project No.: -

BKI Phases:

Phase	VP	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Project Description:

(Standard Description
from Market Data)

Standard Description...

Scope (attachment): See attached contract Scope of Work

Pre-Design / Planning Meeting Report

ODCs:

(included in Budget by Phases, above)

Phase	VP	Description	Amount
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
-	-	-	\$0
ODC TOTAL			\$0

Comments: No comments

BKI Fee: (without subs)

Total Compensation: (with subs)

Schedule (attachment)

Start Date: -

Completion: -

Comments: No comments

(Attach a detailed bar chart showing projected deadlines by task, and 30%, 60%, and 90% completion milestones.)

Design Criteria

Describe any special Design Criteria which may be applicable to this project:

Design Criteria...

QA / QC Plan

Describe staff skill levels required and assigned, the appointment of a Quality Manager for this project, appointment of peer reviewers, and the peer review process and schedule (including milestones):

QA / QC Plan...

Business Development Opportunities

Describe the business development opportunities that should be anticipated during or at the conclusion of this project:

Business Development opportunities...

Political Considerations

Describe any political aspects that should be taken into consideration during or following this project:

Political Considerations...

Project Closeout

Projected Date

Closeout Comments

Other Comments and Considerations

Other comments...

Marketing Data (attachment)

Attach a copy of the Marketing Data Report. Please note that the Pre-Design Meeting Report is based upon the Project as a whole, incorporating all Phases (using input from the Marketing Data sheet). Additional Market Data Reports may be submitted to Marketing to cover specialized work on individual Phases, but those shall be considered supplemental to the main Project-level Marketing Data Report.

Project Highlight Sheet (attachment)

Attach a preliminary version of a Project Highlight Sheet that incorporates the above data for the Project as a whole, and any graphics/photos that may be appropriate. Get with the Marketing Dept. in regard to preparation prior to the Pre-Design Meeting. Additional Project Highlight Sheets may be prepared for specialized work on individual Phases, but those supplemental Highlight Sheets will require additional Marketing Data.

Project Concurrence

Prepared by: -

Date of Report: -

Concurrence:

VP Signature: _____ (Project Manager)

Approvals

Chief Eng. Approval R. Chopin _____

Date _____

Finance Dept. D. Vegh _____

Date _____

Attachments

- 1 Scope of Work(contract, TO, etc...)
- 2 Manhour & Budget Breakdown(project creation & phase forms)
- 3 Bar Chart Schedule
- 4 Marketing Data Report
- 5 Project Highlight Sheet (preliminary)

Copies to:

All meeting participants

Mike, Debbie, Rene, Alaina, Kim Henry
(Kim Henry to file final PDF in Vision)

Appendix C
Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist

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

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

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

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

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

- ___ Discuss Design Criteria

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

Appendix D Design Criteria Checklist

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

— **Cover sheet**

The following information must be included on the cover sheet:

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

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

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

— **Design Assumptions and Design Exceptions**

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

— **General Information**

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

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

— **Hydraulic Design Criteria**

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

— **Design Factors**

The ductility factor η_D , redundancy factor η_R , and operational importance factor η_I shall be listed in this section.

- **Design Loads**
All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.
- **Limit States**
All applicable limit states for this project shall be listed in this section.
- **Bridge Barrier**
The design criteria, types, and test levels for bridge barriers shall be listed in this section. Standard plans and special details should be listed if they are utilized.
- **Guardrail**
The design criteria, types, and test levels for guardrails shall be listed in this section. Standard plans and special details should be listed if they are utilized.
- **Approach Slab**
Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Deck and Deck Drainage**
All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Bearing**
All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Joint**
All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Superstructure**
All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Substructure**
All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Piles and Drilled Shafts**
All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.

— **Geotechnical Design**

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

— **Mechanical Design**

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

— **Electrical/Lighting Design**

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

— **As-Designed Bridge Rating Criteria**

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

— **Software**

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

Legend:	
Bold	New for Final Plan Set
 	Required for this Submittal
 	Drawing Created
 	Ready for Q/C
 	Included In Submittal (Info Only, not QC'd)
 	Complete (QC'd)

This list of deliverables will be tailored for each SP No. once scope is finalized.

Status of Drawings & Other Deliverables
 for _____ Plans (___% Submittal)

Sheet No.	Sheet Title	Drawing (.dgn)	Designer	Design Checker	Detailer	Detail Checker	Remarks	Due @ Submittal(s)
ROADWAY PLANS								
1	Title Sheet and Layout Map	001_TITLE						
1a	Index							
1b	Project Layout							
2	Typical Roadway Sections							
3	Summary of Estimated Quantities Sheets							
	Quantity Summary Tables							
PLAN-PROFILE								
4	Plan-Profile							
	Reference Points and Bench Mark Elevation							
DRAINAGE								
	Existing Drainage Map							
	Design Drainage Map							
	Summary of Drainage Structures							
SPECIAL DETAILS								
	TBD							
GEOMETRICS								
	Geometric Control Layout							
	Geometric Control Tables							
	Curve Data							
	Geometric Layout							
	Geometric Details							
MISCELLANEOUS ROADWAY PLANS								
	Pavement Marking Layout							
	Sugg. Seq. Const. & Min. Sign							
	Detour Route							
	Signal Plans							
	Existing Sign Layout							
	Permanent Sign Layout							
	Sign Summary							
	Misc. Sign Details		DOTD					
	Temporary Erosion Control							
LIGHTING PLANS								
	Lighting Plans							
MISCELLANEOUS SHEETS								
	Right-of-Way Limits							
RIGHT-OF-WAY MAPS								
	Right-of-Way Maps							
BRIDGE PLANS								
	Bridge Index							
	Bridge General Notes							
	Bridge Quantities							

Legend:

Bold	New for Final Plan Set
Yellow	Required for this Submittal
Light Blue	Drawing Created
Orange	Ready for Q/C
Light Green	Included In Submittal (Info Only, not QC'd)
Green	Complete (QC'd)

This list of deliverables will be tailored for each SP No. once scope is finalized.

Status of Drawings & Other Deliverables for _____ Plans (___% Submittal)

Sheet No.	Sheet Title	Drawing (*.dgn)	Designer	Design Checker	Detailer	Detail Checker	Remarks	Due @ Submittal(s)
	General Bridge Plan							
	Typical Bridge Sections							
	Superelevation Diagram							
	Foundation Layout							
	Pile Data							
	Bent Details							
	Crash Wall Details							
	Framing Plan							
	Girder Details							
	Deck Details							
	Joint Details							
	Bearing Details							
	Approach Slab Details							
	Guardrail Details							
	Bridge Railing Details							
	Bridge Drainage Details							
	MISCELLANEOUS BRIDGE PLANS							
	Misc. Details							
	Special Details		DOTD					
	Standard Plans							
	Standard Plans		DOTD					
	CROSS SECTIONS							
	Cross Sections							
	OTHER DELIVERABLES							
	Design Criteria							
	Drainage Calculations							
	Cost Estimate							
	Bridge Alternate Study							
	Special Provisions							
	As-Designed Bridge Ratings							
	Final Bridge Calculations							

We, the undersigned designers, design checkers, detailers, and detail checkers for this project, have reviewed and accepted the drawings and deliverables denoted as complete. Other drawings and deliverables are in progress as indicated above for this submittal. We certify that the work for which we are responsible has been completed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Appendix F
Final Calculation Book Checklist

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

- **Cover Sheet**
The following information must be included on the cover sheet:
 - LADOTD project number
 - Project name
 - The title of “Final Calculation Book”
 - The EOR’s seal with signature and date
- **Final Calculation Book Check List**
- **QC/QA Certifications**
- **Peer Review Resolution Agreement (if peer review is performed)**
- **Design Criteria**
- **Final Hydraulic Analysis Report from Hydraulic Engineer**
- **Final Geotechnical Analysis Report from Geotechnical Engineer**
- **Superstructure Design Calculations**
- **Substructure Design Calculations**
- **Quantity Calculations**
- **Special Provisions/NS-Items**
- **Construction Cost Estimate**
- **As-Designed Rating Report**
- **List of All Final Electronic Design Files and File Locations (ProjectWise directory name)**

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

- **A PDF File of the Calculation Book**
- **All Electronic Design Files**
- **A PDF File of the As-Designed Rating Report Only**

Appendix G

COLOR-CODED MARKING PROCEDURES

For the “Detail Checking” of documents, the following color-coded marking procedure shall be used if the review / check document is used to document the procedure (i.e. the work product is marked up):

1. Correct information shall be highlighted in yellow to signify that the information has been subjected to review / check and is found to be correct.
2. Checker shall mark incorrect information in red for literal correction by the author (designer / detailer). Suggestions, comments and notes shall be written in clouded red.
3. Marked-up information shall be back-checked by the author and check-marked in green if he/she agrees.
4. Marked-up information about which the author disagrees with the reviewer / checker shall be resolved through discussion. If they are unable to reach an agreement, the Project Manager shall decide upon the resolution. Significant Issue resolution that cannot be resolved at this level will be resolved by the BKI Chief Engineer or his Designee (as applicable).
5. All marked-up and agreed upon / resolved information shall be corrected / incorporated into the original document by the author. After applying a procedure of self-checking, the detailer shall signify that the correction is complete by highlighting the marked-up information in yellow on the review / checking document and shall initial and date each sheet.
6. The corrections subsequently shall be verified by the author. He/she shall signify the proper correction by highlighting the marked-up information in blue over the yellow on the review / checking document and shall initial and date each sheet. The resultant color will be green.

COLOR - CODED MARKING PROCEDURES									
Step	Description	Checker	Designer	Detailer	Initial & Date	Color	Signifies Information Is:		
							Correct	Incorrect	Comment
1	Review	X				Yellow	X		
2		X				Red		X	
2		X				Red Cloud			X
3	Back -		X			Green "checkmark"			Agrees
3	Check		X			Green "X"			Disagrees
4	Finalize		X		Yes				Resolve Disagreements
5	CADD			X	Yes	Yellow	X		
6	Verification		X		Yes	Blue over Yellow = Green			

Appendix H
QA Information Package Checklist

Contract No.: 4400028434

Project Description: LA 44: Pelican Point Roundabout and Widen

_____ Calculation Book

_____ Plans

_____ Special Provisions

_____ Cost Estimate

_____ Other Documents _____

Appendix I
QC/QA Certification

Contract No.: 4400028434



Project Name: LA 44: Pelican Point Roundabout and Widen

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

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

Contract No. 4400028434
QC/QA Certification of the Status of Bridge Design Calculations

Updated: 6/4/2020

 = Progress
 = Complete

__% ____ Plans Submittal

	Designer	Design Checker	Comments		Remarks
			Y/N	Resolved Y/N	
Deck Designs:					
Slab Span Designs:					
Girder Designs:					
Bearing Designs:					
Bent Designs:					
End Bent Designs:					
Pile Bent Designs:					
Approach Slab Designs:					

We, the undersigned designers and design checkers for this project, have reviewed and accepted the calculations denoted as complete. Other calculations and reviews are in progress as indicated above for this submittal. We certify that the work for which we are responsible has been completed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Appendix J
Peer Review Resolution Agreement

Contract No. 4400028434

Project Name: LA 44: Pelican Point Roundabout and Widen

We, the undersigned Peer Reviewer, Supervisor or Team Leader of the design team, and LADOTD Representative for this project, have reviewed and accepted the attached peer review resolutions. We certify that the peer review has been performed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	Signature
Peer Reviewer		
Supervisor or Team Leader		
LADOTD Representative		

Appendix K
SOFTWARE APPROVAL

Contract Number: 4400028434

Project Name: LA 44: Pelican Point Roundabout and Widen

Note: Certification from the software developer must be attached stating that the software is maintained in accordance with the latest AASHTO LRFD Bridge Design Specifications. This completed form and the certification is to be submitted by the PM to the LADOTD Bridge Task Manager for approval.

Software Name:

Version Number:

Software Developer:

General Description of Software Functions:

Designer's Experience with the Software:

Other Organizations or Agencies Experience with the Software:

This Section to be completed by the LADOTD Bridge Task Manager

APPROVED

REJECTED

Comments:

BKI PM

Date

LADOTD Bridge Task Manager

Date

Appendix L
SOFTWARE VERIFICATION

Contract Number: 4400028434

Project Name: LA 44: Pelican Point Roundabout and Widen

Note: The Design Office is responsible for securing this form and having it filled out by responsible parties for each different computer program used in the design computations (including customized Excel Spreadsheets). The Designer shall sign & date this form and transmit it to the PM.

Computer Program Name:

Version Number: In-House Outside Project-Specific

Principal Use:

Limitations:

Description of Program Modifications:

Operating Systems Used for Program Verification:

Location of Verification Documentation:

Prepared by: _____ Date: _____

Checked by: _____ Date: _____

Approved by: _____ Date: _____

Designer Date Project Manager Date

ROAD DESIGN 100% PRELIMINARY PLANS QA/QC



Contract No. 4400028434 Route No. _____
 Name: LA 44: Pelican Point Roundabout and Widen Parish _____

General Directions:

Designer should go through this QA/QC process prior to submitting to a reviewer, attach all previous checklists for reviewer, and sign. The designer should also provide the location for the plan set being reviewed.

Reviewer should

1. Review Plan-in-Hand checklist, have all comments been addressed?
2. Review Constructability / Biddability checklist, have all comments been addressed?
3. Review Location and Survey Checklist.
4. Sign this checklist upon completion. While completing this process, it is recommended that the reviewer use a highlighter and a red pen to mark major items on plans (this includes all table information including the math). These documents should also be attached to this document and kept as part of the design calculations for the project.

Description	Designer	Reviewer	N/A
TITLE SHEET			
The project name on the title and plan sheets matches the name in the Project System.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The Project Length Table is accurate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The CS Log Miles are accurate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The arrows on the Layout Map are pointing to the correct location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The beginning, ending, equation and other event callouts match the same callouts on the plan sheets.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The north arrow is shown on the Layout Map.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The scale for the Layout Map is labeled correctly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TYPICAL SECTION SHEETS			
The typical section matches the design provided by Section 67.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The projects limits are covered by the typical sections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Superelevation diagrams and/or tables have been provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All measurements, thicknesses, and slope rates have been labeled and checked.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLAN-AND-PROFILE SHEETS			
All of the alignment information is shown and has been checked for accuracy. (including horizontal and vertical curve data)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Sight distance has been checked including for vertical and horizontal curves as well as intersections. Also consideration has been given to any driveway or intersection at bridge ends.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Superelevation transition and rates are shown in the profile.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Median openings are in compliance with appropriate policies and EDSM's.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design exceptions that are required have been completed and documented in the plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design exceptions can be located in the project files.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utilities were considered when setting Required Right-of-Way.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The North Arrow is shown with the proper scale.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All right-of-way ties are shown, at all right-of-way breaks, and along curves as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right-of-way markers are shown at all breaks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limits of construction is shown and located within required right-of-way or construction servitude.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taking lines do not extend beyond the project limits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Driveways, sidewalks, turnouts, etc. within right-of-way (either existing or required) are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All concrete/asphalt removal is shown with appropriate patterns, including driveways, sidewalks, parking lots, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CROSS SECTIONS			
Right-of-way and construction servitude lines are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diversions are shown as appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diversions do not interfere with proposed construction sequence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthwork quantities are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proposed sections do not extend beyond Required Right-of-Way.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Designer: _____

Date: _____

Reviewer: _____

Date: _____



Contract No. 4400028434 **Route No.** _____
Name: LA 44: Pelican Point Roundabout and Widen **Parish** _____

General Directions:

Designer should go through this QA/QC process prior to submitting to a reviewer, attach all previous checklists for reviewer, and sign. The designer should also provide the location for the plan set being reviewed.

Reviewer should

1. Review Plan-in-Hand checklist, have all comments been addressed?
2. Review ACP checklist, have all comments been addressed?
3. Review Constructability / Biddability checklist, have all comments been addressed?
4. Sign this checklist upon completion. While completing this process, it is recommended that the reviewer use a highlighter and a red pen to mark major items on plans (this includes all table information including the math). These documents should also be attached to this document and kept as part of the design calculations for the project.

Description	Designer	Reviewer	N/A
TITLE SHEET			
The sheet count is correct.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The latest versions of Standard Plans are used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The type of construction is correct.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The projects limits, bridge sites, equations and exceptions are shown on the layout map. It matches the length in the project table.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Design exceptions (if any) are shown on title sheet and can be located in ProjectWise.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TYPICAL SECTION SHEETS			
All station ranges are accounted for. They match limits shown on Title Sheet and Plan/Profile sheets.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternate pavements (if required) are provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The limits of seeding and fertilizer are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Typical sections are provided for transitions and detour roads. Appropriate pay items are included.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Maintenance/liability agreement (if needed) has been completed for sidewalks, lighting or bike paths, and it can be located.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description	Designer	Reviewer	N/A
SUMMARY SHEETS			
Detailed check of all quantity tabulations (addition and multiplication) has been completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detailed check of tables matching the plans (typical sections, plan/profiles, cross sections, etc.) has been completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Detailed check of quantity transfers from tables to Master Summary has been completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quantities from all disciplines are accounted for (i.e. road, bridge, traffic signals, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLAN-AND-PROFILE SHEETS			
Check all notes; verify how all work items will be paid.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Question notes that modify specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The rights-of- way widths are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Right-of way markers are shown at all breaks in right-of way and all P.C.'s and P.T.'s. Right of entry agreements has been obtained, if needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Areas where abandoned roadways are to be obliterated and graded have been shown on the plan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Locations, sizes and descriptions of drainage structures to be removed are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Required construction and drainage servitudes have been shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bedding material has been shown under cross drains.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Driveway types, widths and stations are shown. Handicap ramp types and items are shown. They match tables.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limits of construction are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There is a note stating existing drainage structures will be removed unless otherwise noted (Urban). There is a table showing amounts of each size pipe to be removed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The diversion alignment is shown, if required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DESIGN DRAINAGE MAP			
All drainage areas, direction of flow, run-off factors etc. are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel realignments (as needed) have been shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Existing structures required to remain are noted and numbered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GEOMETRIC DETAILS			



Plan/profile sheets have been provided for turnouts where necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan/profile sheets have been provided for diversion roads.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geometric detail sheets include areas and quantities for each turnout.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description	Designer	Reviewer	N/A
SEQUENCE OF CONSTRUCTION			
The sequence of construction matches the proposed joint layout.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary drainage structures are provided during construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sequence typical sections have been provided, if necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Verify that provided lane widths are appropriate and available.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vertical transitions from existing to new pavement are adequate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary pedestrian accommodations are provided per TTCs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL			
Saw cutting is shown where needed and paid for appropriately. (driveways, pavement cuts, patching, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Salvageable material is shown as well as where to haul it to.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental mitigation items are included in the plans as necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CROSS SECTIONS			
Cross sections reflect the grading section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cross sections reflect the "Req'd Right of Way/Servitude".	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cross sections reflect the embankment widening for guard rail.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The grading section is distinguishable from the existing ground line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cross sections reflect cut/fill sections that match the grade shown on the plan/profile sheets.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The diversion is shown on the cross sections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Designer: _____

Date: _____

Reviewer: _____

Date: _____

22. Sub-consultant information:

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Urban Systems, Inc	2000 Tulane Avenue, Suite 200 New Orleans, LA 70112	Alison Catarella Michel, PE, PTOE, PTP, RSP _{2i} acmichel@urbansystems.com	(504) 569-3958
Advanced Bridge Design, PLLC	4508 Gilbertson Road Fairfax, VA 22032	Saeed Doust , PH.D, PE s.doust@AdvancedBridgeDesign.com	(571) 662-0068

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