DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1.	Contract Name as shown in the advertisement	OLD COLUMBIA RD OVER JAMIESON CREEK
2.	Contract Number(s) as shown in the advertisement	4400030634
3.	State Project Number(s), if shown in the advertisement	H.015941.5
4.	Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	MCA Engineering, LLC
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF. 0006655
6.	Prime consultant mailing address	8966 Interline Avenue, Suite D, Baton Rouge, LA 70809
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8966 Interline Avenue, Suite D, Baton Rouge, LA 70809
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Marcio Araujo, Ph.D., P.E. – President & CEO Phone No.: (225)803-3744 Email: Marcio.Araujo@mcaengrbr.com
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Marcio Araujo, Ph.D., P.E President & CEO Phone No.: (225)803-3744 Email: Marcio.Araujo@mcaengrbr.com

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

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

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

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

Date: 01/02/2025

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

status as a firearm entity or firearm trade association.

Firm(s)' %:

12. Discipline Table:

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

The **only** disciplines to be used are listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). **Remove rows as needed.**

Discipline(s)	% of Overall	MCA Engineering,	SJB Group,	Thompson	Firm D	Firm E	Each Discipline
	Contract	LLC	L.L.C.	Engineering,			must total to 100%
				INC., of			
				Louisiana			
Bridge	54%	100%					100%
Other (Hydraulic Study)	12%	100%					100%
Survey	17%		100%				100%
Right-of-Way	10%		100%				100%
Environmental	7%			100%			100%
Identify the percentage of work for the <u>overall contract</u> to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	100%	66%	27%	7%			

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 (must specify)" and include the classification title inside the parentheses.

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

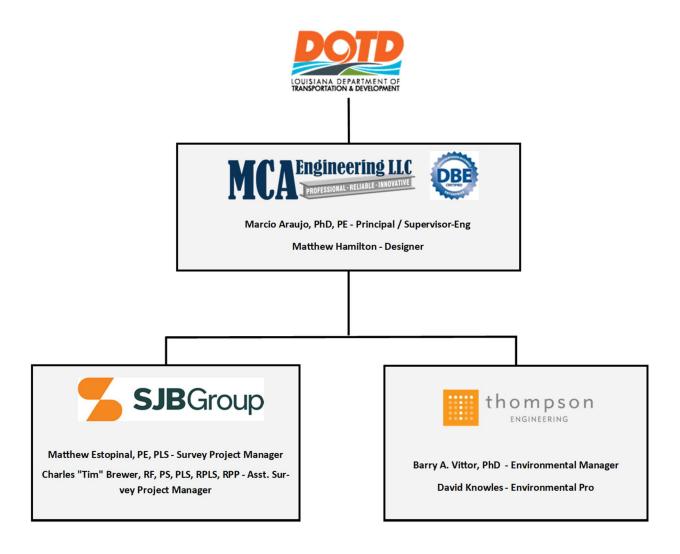
http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/CCS/Job Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
MCA Engineering, LLC	Principal	1	2
MCA Engineering, LLC	Supervisor - Eng	1	1
MCA Engineering, LLC	Designer	1	2
SJB Group, L.L.C.	Surveyor	2	4
SJB Group, L.L.C.	Engineer	0	4
SJB Group, L.L.C.	Party Chief	3	6
SJB Group, L.L.C.	CADD Technician	1	1
SJB Group, L.L.C.	Engineer Intern	0	1
SJB Group, L.L.C.	Landscape Architect	0	1
SJB Group, L.L.C.	Technician	0	1
SJB Group, L.L.C.	Rodman	0	1
SJB Group, L.L.C.	Principal	1	1
SJB Group, L.L.C.	Instrument Man	0	2
SJB Group, L.L.C.	Administrative	0	4
SJB Group, L.L.C.	Supervisor - Eng	0	2
SJB Group, L.L.C.	CADD Drafter	0	1

SJB Group, L.L.C.	CADD Operator	2	3
SJB Group, L.L.C.	Senior Technician	2	4
Thompson Engineering, Inc., of Louisiana	Environmental Manager	1	1
Thompson Engineering, Inc., of Louisiana	Environmental Pro	1	23

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. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Marcio Araujo	MCA Engineering, LLC	PE.0035506 - Civil	LA	09/30/2026
2	Marcio Araujo	MCA Engineering, LLC	PE.0035506 - Civil	LA	09/30/2026
3	Marcio Araujo	MCA Engineering, LLC	PE.0035506 - Civil	LA	09/30/2026
4	Matthew Estopinal, PE, PLS	SJB Group, L.L.C.	PLS.0004955	LA	03/31/2025
5	Dr. Barry A. Vittor, PhD	Thompson Engineering, Inc., of Louisiana	Environmental – more than 5 years of experience in wetland delineation	N/A	N/A
5	David Knowles	Thompson Engineering, Inc., of Louisiana	Environmental – more than 5 years of experience in wetland delineation	N/A	N/A

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 are **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.

Firm employed by: MCA Engineering, LLC								
Name		cio C. Araujo, Ph.D., P.E.				Years of relevant experience with this employer	5	
Title		nt & CE	•			Years of relevant experience with other employer(s)	16	
	/Years/S				Ph.D	D. / 2009 / Civil Engineering / Louisiana State University		
8(-)		-	Lou		_	/ 2002 / Civil Engineering / Louisiana State University		
						/ 1998 / Civil Engineering / Universidade Federal do Piaui, T	Teresina, Brazil	
Active reg	gistration n	ımber /				essional Engineering – Louisiana #35506 / September 2026	,	
	S				_	essional Engineering – Mississippi #30841 / December 2026		
					_	essional Engineering – Arkansas #20112 / December 2026		
						essional Engineering – Texas #141933 / June 2025		
		<u> </u>				essional Engineering – Alabama #51221 / December 2025	-	
Year regis	stered	2	010	Discipline		Engineering		
		ef descrip	tion of resp		Lead	l Design Engineer		
Experienc	ce dates	Experien	ce and qual	ifications relev		the proposed contract; i.e., "designed drainage", "designed	ed girders", "designed	
(mm/yy-r	mm/yy) i	ntersecti	on", etc. Ex	perience dates s	should	cover the years of experience specified in the applicable MP	R(s).	
07/19 – 01/25 Engineering Lead & Co-Founder / MCA Engineering LLC – Co-founder, majority owner, and technical lead. The				ical lead. The				
		1 .	-			lysis, design, and support to various industrial, commercial, retail, and governmental		
			-			ch as VA Hospitals, US Coast Guard, industrial plants, office	e buildings, US Navy,	
						s, and various government buildings.		
2018 - 5/2		Lead Civil / Structural Engineer / BRIS/Wink Engineering – Led teams assigned to provide engineering analysis and						
		_		11	-	tal projects at various industrial sites across the Greater Baton	0 0	
						ent foundations, blast analysis and design, platforms, pile des	•	
				s. Customers se	rved di	uring this time included organizations such as Exxon, Rubico	on, Shintech, and	
2015 20		Westlake		/II	P	A	74	
2015 - 20				0		Associates – Responsible for all aspects of leading the Civil/S	-	
2008 - 20	activities and managing staff performance as well as actively worked as the discipline lead for multiple clients. - 2015 Civil/Structural Engineer & Project Manager / CDI Engineering – Leadership positions as the Civil/Structural Engineer							
2008 – 20								
Project Amite, the largest project awarded to		nultiple Shell/Motiva projects in Convent, Geismar and Norco, LA. Lead Engineer for						
		access platforms. Involved in all phases of design, including f	•					
topographic surveys, production of drawings (2D and 3D), checking, and production of con				· · · · · · · · · · · · · · · · · · ·				
2006 - 20						g – Led engineers in two offices to successfully complete mu		
including residential, commercial and industrial work. Coordinated with geotechnical engineers, architects, and clie			1 1 3					
	merading residential, commercial and industrial work. Coordinated with geoccimical engineers, architects, and chemis. Work							

	involved shallow and deep foundations, post-tensioned slabs, timber, and steel structures. Responsible for all facets of the					
	business, including but not limited to marketing, human resources, negotiating fees and invoicing.					
2019 – 2009	Teaching & Researching Assistant / LSU Dept of Civil Engineering – Researched non-linear kinematic hardening for					
	multi-axial cyclic plasticity. Developed 3-D full finite element models of prestressed concrete bridges for both linear and					
	nonlinear analysis using ANSYS. Inspected nearly 90 highway bridges for truck impact damage in the state of Louisiana.					
01/98 - 11/98	Construction Supervisor / Construtora Rego Monteiro – Supervised the construction of reinforced concrete highway					
	bridges, commercial buildings, and structural restoration of concrete structures. Work involved using independent judgement					
	and initiative, scheduling and assigning work, requisitioning materials and supplies, estimating man hours and materials, and					
	making payments.					

Firm employed by: MCA Engineering, LLC					
Name	Name Matthew Hamilton			Years of relevant experience with this employer	0.75
Title	Projec	t Engineer		Years of relevant experience with other employer(s)	19.66
Degree(s) /	Years /	Specializ	B.S.	. / 2004 / Civil Engineering	
Active regis	stration	number /			
Year registe	ered	Discipline			
Contract ro	le(s) / br	rief description of responsibilities	Lead	d Designer	
Experience (mm/yy-mr		• •		the proposed contract; <i>i.e.</i> , "designed drainage", "designed cover the years of experience specified in the applicable M	, ,
04/24 – 12/24 Designed wastewater treatment p		Designed wastewater treatment plant miscellaneous access platforms; and a		rainage, access roads, concrete structures, PEMB concrete veyor truss bridge.	foundations,
06/16 – 04/	24			eel pipe supports, concrete foundations, underground draina packages for various industrial projects.	age piping, developed
01/13 – 06/16 Designed industrial steel structures & civil				concrete foundations, analyzed industrial piping & vessel sads, piping leads, and department manager.	supports, and coordinated
04/09 – 01/13 Designed metal building concrete foundation, residential house concrete foundation structure, and concrete foundation for high school baseball field, RFP roof of access			s steel platforms, steel		
12/04 – 04/09 Designed process & industrial foundation drainage.				, structures, skids, substations, miscellaneous pipe supports	, cable tray supports, and

Firm employed by	: SJB Group, L.L.C.				
	new Estopinal, PE, PLS	Years of relevant experience with this employer	3		
	ipal / CEO	Years of relevant experience with other employer(s)	15		
Degree(s) / Years /	Specialization	B.S. in Civil Engineering 2009 LSU			
		B.S. in Microbiology 1996 LSU			
Active registration	number / state / expiration date	PE #0039151 Louisiana 3/31/2025 Year Registered: 2014 Pr	ofessional Engineer		
		PLS #0004955 Louisiana 3/31/2025 Year Registered: 2006 F	Professional Land		
		Surveyor			
		PE #122184 Tennessee 1/31/2025 Year Registered: 2019 Pro			
		PE #32982 Mississippi 12/31/2024 Year Registered: 2022 Pr	ofessional Engineer		
Year registered	Discipline				
Contract role(s) / b	orief description of responsibilities	Project Manager – Surveying Mr. Estopinal has 17 years of ex			
		Louisiana managing transportation and community development	1 0		
		private clients, MoveBR, and LA DOTD. His survey experience			
		Topographic, As-Built and ALTA Surveys, Right-of-Way Mappi Layout, and control for aerial survey and mapping.	ng, Construction		
Experience dates	Experience and qualifications releva	nt to the proposed contract; <i>i.e.</i> , "designed drainage", "designed	ad girders" "designed		
(mm/yy-mm/yy)					
(mm/yy-mm/yy) intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). 107/21 -10/23 LA DOTD Project No. H.004100.5 - I-10: LA 415 to Essen on I-10 and I-12					
07721 10725		rty Survey and extensive Right-of-Way Mapping for approximatel	v 4 miles of I-10 as		
	1 2 2	or which a property map was created that encompassed the parcels	-		
		ect also included the creation of Base Right-of-Way Maps; Final I			
		along with a pdf copy of the Full Title Research Reports with affe			
	and an ASCII parcel input file descrip	tions for approximately 125 parcels.			
08/20-04/24		Replacement Initiative, Districts 03, 07, 61, 62			
		raphic surveying, property surveying, right-of-way mapping, and i			
		7, 61, and 62 as a sub-consultant to Burk-Kleinpeter within their consultant to Burk-Kleinpeter within the Burk-Kleinpeter with			
	= =	rveys were provided in accordance with the current Locations and	Survey Manual and		
0.4/0.2 0.0/0.2	Addendum A.	M C'' C'I II O CI III D (I C' M D 'I			
04/23 - 09/23		- Morgan City Sidewalks & Shared Use Path, St. Mary Parish			
	QA/QC. Sub to Digital Engineering. This project included Right-of-Way Mapping, Topographic Surveying, and Subsurface Utility Engineering to assist in the installation of sidewalks, handicapped ramps, drainage structures, and other related work in				
		formed to LADOTD Location & Survey Section requirements and			
	format.	cornect to 2712012 Eccation & Survey Section requirements and	delivered in Autoucsk		
03/22 - 08/23	LA DOTD Project No. H.012685.5 -	- LA 385: Ryan Street Intersection Improvements			
	•	graphic Survey in Calcasieu Parish near the intersection of I-210 a	nd LA 385 (Ryan		
	Street) near the campus of McNeese S	state University. The survey included all utilities, drainage, and fin	ish floor elevations of		

	buildings that fell within the survey limits. The total linear distance was approximately 2.67 miles. LiDAR Data was gathered using a Velodyne Mobile Scanner and Ladybug. Terrestrial Surveying was performed using a Leica TS16 Robotic Total
	Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite
	MicroStation. All surveying was performed to LADOTD Location & Survey Section requirements.
07/21 - 02/22	LA DOTD Project No. H.013715.5 – LA 77 Union Pacific Railroad Crossing (Iberville)
	QA/QC. This project consisted of Property Surveying, Right-of-Way Mapping and Topographic Surveying for a project that
	included the depiction of a railroad right-of-way, state-maintained highway, and city streets. The deliverables included
	preparation of a Property Map, Base Right-of-Way Maps, Final Right-of-Way Maps and the creation of a parcel input file for
	acquisition descriptions of the subject area. All surveying was performed to LADOTD Location & Survey Section Addendum
	A requirements.
10/20 - 08/22	LA DOTD Project No. H.002176.50 – LA 10 Bridges
	QA/QC. The LA 10 Bridges project in St. Landry Parish included Property Surveying and Right-of-Way Mapping for three
	sites. The property survey depicted the affected properties, the existing Right-of-Way for LA Hwy 10, and multiple state-
	claimed water bodies. The Property Survey was utilized for creating Base Right-of-Way maps, Final Right-of-Way Maps and
	ASCII parcel input files for acquisition parcels. All surveying was performed to LADOTD Location & Survey Section
	Addendum A requirements.
06/21 - 10/21	LA DOTD Project No. H.007963 – Blackwater Bayou Bridge
	Project Manager/QA/QC. This project required replacement of the Bayou River Bridge and a diversion road during
	construction along LA Hwy 410 in East Baton Rouge Parish near the City/Town of Central. This project involved Property
	Surveys, Right-of-Way maps, and title take-offs. This project went through design changes which halted project progress
	temporarily and significantly changed the required right-of-way taking. All surveying was performed to LADOTD Location &
	Survey Section Addendum A requirements.

Firm employed by: SJB Group, LLC						
	harles "Tim" Brewer	Years of relevant experience with this employer 3				
Title Vi	ice President of Surveying	Years of relevant experience with other employer(s) 28				
Degree(s) / Yea	ars / Specialization	Bachelor of Science in Forestry Management / 1988 / Mississippi State University				
	tion number / state / expiration date	PLS.0005009 Louisiana 9/30/2025 Registered 2009 Professional Land Surveyor PLS.35341-S Alabama 12/31/2025 Registered 2015 Professional Land Surveyor RPLS.6142 Texas 12/31/2025 Registered 2010 Reg. Professional Land Surveyor PS.1683 Arkansas 6/30/2025 Registered 2009 Professional Surveyor LS.2726 Tennessee 12/31/2025 Registered 2008 Land Surveyor 80756RPP Oregon 12/31/2025 Registered 2008 Reg. Professional Photogrammetrist PS.2766 Mississippi 12/31/2025 Registered 1999 Professional Land Surveyor RF.1286 Mississippi 12/31/2025 Registered 1988 Registered Forrester				
) / brief description of responsibilities	Asst. Project Manager Mr. Brewer, has over 30 years of survey experience and over 15 years of experience managing a wide variety of surveying projects for USACE, MDOT, LADOTD, MovEBR, MoveAscension, and private clients. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping.				
Experience date		ant to the proposed contract; i.e., "designed drainage", "designed girders", "designed				
(mm/yy-mm/y		hould cover the years of experience specified in the applicable MPR(s).				
10/23 - 12/24	LA DOTD Project No. H005121.5 L					
	Project Manager. The project provides field data for the design of a roadway to connect LA 415 to LA 1. The project is a supplement to previously performed surveying for the realignment of the due to recent development and construction. The project limits include a 2.9-mile corridor beginning approximately 0.2 miles north of the intersection of I-10 and LA 415 and continuing in a southeasterly direction along the extension of LA 415 across the intercoastal canal, industrial areas, and agriculture field to the intersection of LA 1. The project limits also include an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas. The project includes the collection of current conditions of the areas included in the project limits and merging the current data with the previous survey and updating any observed condition changes. The project includes the recovery and supplement of the existing control network. The collection of field data is completed through the utilization of conventional survey methods with survey total stations and global positioning systems (GPS). Mobile LiDaR methods are utilized for the collection of data along the high traffic segments of LA 1 and processed through Trimble Business Center, with data extraction performed through TopoDot. The survey is being conducted according to the Louisiana Department of Transportation and Development Location and Survey Manual. The deliverables will be provided in accordance with the LADOTD guidelines for electronic deliverables.					
04/23 – 09/23						

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

Firm employed by: Thompson Engineering, Inc.										
	Barry A. Vittor, PhD	Years of relevant experience with this empl	oyer	1 year (Thompson)						
Title Princ	cipal Scientist	Years of relevant experience with other em	ployer(s)	52 years						
Degree(s) / Years /	Specialization	nD/ Ecology, University of Oregon, 1971								
		S/ Marine Biology, California State University,	San Diego, 196	8						
		A/Zoology, University of California, Riverside,	1966							
Active registration	1	/A								
Year registered	1	/A								
	_ 1 1	nvironmental - NEPA								
Experience dates		to the proposed contract; i.e., "designed drain								
(mm/yy-mm/yy)		ald cover the years of experience specified in the								
(01/21 - ongoing)		ent, Baldwin County, AL - Principal Scientist 1								
		bridge replacement project at the Tensaw-Span								
		g of wetlands and SAV in the construction area								
		l locations in the vicinity of the bridge were sur	•							
	<u> </u>	e site for restoration of SAV through transplanti	_							
(01/09 12/22)		gation plan was coordinated with ALDOT, USA								
(01/08 - 12/22)		nty Coal Mine, Kemper County, MS – Principal Scientist responsible for Sec. 404 m assessment, threatened/endangered species survey, and vegetation/wildlife study for a								
	1 2	,	•	-						
	1 2 2	acility in portions of Kemper County, Mississippi. Dr. Vittor and his team developed a mitigation plan that would be implemented during the 40-year life of mine period,								
	1 -	he mine, and coordinated the permit review and	•	•						
	1 1 1	ncies. They also conducted annual monitoring								
	sites through 2021.	noies. They also conducted aimaar monitoring	of the wending a	na stream mitigation						
(01/19 - 12/21)		c Line Environmental Resources, Counties in A	L/MS – Principa	al Scientist for the						
(01/15 12/21)		s project involved surveys of wetlands, streams,	-							
	-	isting transmission line corridor that extended 1	_							
	1 2	ate line. Wetlands were delineated and mapped		•						
		Endangered species focused primarily on Gophe		1 0						
	UFWs as Threatened in southern Miss	sippi. Three navigable waters (Pascagoula River	, Biloxi River, J	ourdan River) were						
	crossed by the fiber optic line installati	n. Dr. Vittor and his team obtained Sec. 10 perm	nits for each cros	sing.						
(11/21 –		ntal Services MSA, Mobile County, AL - Princ								
Ongoing)		nmental Services Department, through a Master Service Agreement (MSA). Tasks that								
		land Causeway and Salt Aire shoreline protection and restoration projects and Muddy								
		ion monitoring. The Dauphin Island Causeway project was designed to provide enhanced								
		tablishing historic shoreline marsh and installin								
		established for the County by Dr. Vittor and his								
	stream and wetland mitigation for seve	l public road projects as well as for projects suc	th as the County	Sports Complex.						

	Habitat restoration and monitoring of these mitigation projects is on-going. The MSA has also been used for natural resource surveys of conservation acquisition properties and public parks.
(01/99 – 12/99)	Duke Energy, Wetland Delineation and Threatened & Endangered Species Survey, Rapides Parish, LA – Principal Scientist for a wetland delineation and threatened & endangered species survey of a proposed 2-mile long natural gas pipeline corridor in Kisatchie National Forest (Louisiana) for Duke Energy. Wetlands were delineated and mapped in accordance with Corp of Engineers guidelines.
(01/15 – 12/15)	Anchor Engineering, Wetland Delineation, Lafayette, LA – Principal Scientist for wetland delineation and permitting for a commercial development associated with a FedEx facility in Lafayette, LA for Anchor Engineering, and coordinated the permit review and approval process with the USACE for impacts associated with the development.

Firm employed by: Thompson Engineering, Inc.										
Name David	Knowles		Years of relevant experience with this employer	1 year (Thompson)						
Title Senior	· Wetlands Biologist		Years of relevant experience with other employer(s)	20 years						
Degree(s) / Years /	Specialization	B.S.	/Wildlife Science, Auburn University, 2004							
	number / state / expiration date	N/A								
Year registered N/A Discipline N/A										
Contract role(s) / br	rief description of responsibilities	Env	ironmental – Wetland Delineation							
Experience dates (mm/yy–mm/yy)			the proposed contract; i.e., "designed drainage", "design							
$\frac{(\text{min/yy-min/yy})}{(01/21 - \text{ongoing})}$			l cover the years of experience specified in the applicable Mat, Baldwin County, AL – Senior Biologist for environmenta							
(01/21 – oligoling)	permitting of the proposed U.S. Alabama. This project involved mitigation plan for SAV impacts and for water depth, to identify a	Hwy 98 br mapping os. Several la suitable s	ridge replacement project at the Tensaw-Spanish River cross of wetlands and SAV in the construction area and required docations in the vicinity of the bridge were surveyed for preside for restoration of SAV through transplanting of donor situated with ALDOT, USACE, NOAA, and ADEM.	ing in Baldwin County, evelopment of a ence/absence of SAV						
(01/08 – 12/22)	assessment, threatened/endanger facility in portions of Kemper C mitigation plan that would be in for the mine, and coordinated th	red species ounty, Mis aplemented e permit re	oal Mine, Kemper County, MS – Senior Biologist wetland d survey, and vegetation/wildlife study for a proposed lignite sissippi. Dr. Vittor and his team developed a comprehensive during the 40-year life of mine period, prepared the Section view and approval process with the USACE, USEPA, USFV nitoring of the wetland and stream mitigation sites through 2	coal surface mine wetland and stream a 404 permit application WS, MDEQ, and other						
(01/19 – 12/21)	placement of a new fiber optic life fiber optic line corridor adjacent Alabama to the Mississippi-Lou guidelines. Surveys for Threater UFWs as Threatened in southern	ne. This p to an exist isiana state ted and End n Mississip	Line Environmental Resources, Counties in AL/MS – Senior project involved surveys of wetlands, streams, and endangered ting transmission line corridor that extended 114 miles from a line. Wetlands were delineated and mapped in accordance adangered species focused primarily on Gopher Tortoise, when it is the primarily of the pri	ed species in a proposed west Mobile County, with Corp of Engineers ich is listed by the Jourdan River) were						
(11/21 –			al Services MSA, Mobile County, AL – Senior Biologist for							
Ongoing)	going include the Dauphin Islan Mitigation Area implementation protection for the State highway The Muddy Creek Mitigation As stream and wetland mitigation for	d Causewa monitorin , by reestal rea was est or several p ng of these	res Department, through a Master Service Agreement (MSA by and Salt Aire shoreline protection and restoration projects g. The Dauphin Island Causeway project was designed to problishing historic shoreline marsh and installing breakwater stablished for the County by Dr. Vittor and his team to provide bublic road projects as well as for projects such as the Count emitigation projects is on-going. The MSA has also been us ties and public parks.	and Muddy Creek rovide enhanced tructures in Mobile Bay. le opportunities for y Sports Complex.						

(01/99 – 12/99)	Duke Energy, Wetland Delineation and Threatened & Endangered Species Survey, Rapides Parish, LA – Senior Biologist for a wetland delineation and threatened & endangered species survey of a proposed 2-mile long natural gas pipeline corridor in Kisatchie National Forest (Louisiana) for Duke Energy. Wetlands were delineated and mapped in accordance with Corp of Engineers guidelines.
(01/15 – 12/15)	Anchor Engineering, Wetland Delineation, Lafayette, LA – Senior Biologist for wetland delineation and permitting for a commercial development associated with a FedEx facility in Lafayette, LA for Anchor Engineering, and coordinated the permit review and approval process with the USACE for impacts associated with the development.

17. Firm Experience:

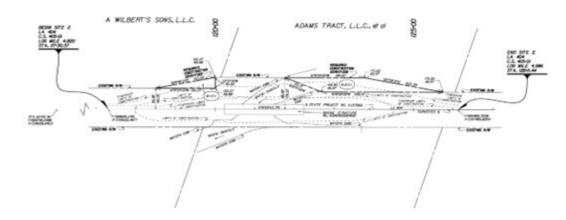
Identify the team's project experience most relevant to the scope in the advertisement. The projects*** should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 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	SJB Group, LLC		Discipline(s)*	Survey, Right-of-Way				
Project name	Rural Bridge Replacem	ent Initiative	Firm responsibility (prime or sub?) Sub					
Project number	nber 21-DR-US-0038 Owner's name Louisiana Department of Transportation and Development							
Project location	Multiple Locations in Lo	ouisiana (Districts 0	3,07,61,62) Owner's Project	Manager Mark Hughes, P	LS			
Owner's address, pho	ne, email 1201 Capitol A	Access Road, Baton	Rouge, LA 70802, 225-379-1	105, mark.hughes@la.gov				
Services commenced	by this firm (mm/yy)	8/20	Total consultant contract cost (\$1,254				
Services completed by	y this firm (mm/yy)	4/24	Cost of consultant services pro	vided by this firm (\$1,000's)	\$1,254			

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

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

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



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

The deliverables were provided in accordance with the LA DOTD guidelines for electronic deliverables. SJB Group performed 100% of the project 480530

Firm name	SJB Group, LLC		Discipline(s)*	Survey		
Project name	LA 1 to LA 415 Connec	ctor to Interstate 1	0	Firm responsibility (prime or sub?) Prime	
Project number	H.005121	Owner's name	LA Department of Transportation and Development			
Project location	Port Allen, West Baton	Rouge Parish, Lo	uisiana Owner's Pro	ject Manager Jonathan Herroc	l	
Owner's address, pho	ne, email 1202 Capital A	Access Road, Baton	Rouge, LA 225-379-1105	5 Jonathan.Herrod@la.gov		
Services commenced by this firm (mm/yy) 10/23 Total consultant contract cost (\$1,000's) \$247						
Services completed by	y this firm (mm/yy)	12/24	Cost of consultant services	s provided by this firm (\$1,000's)	\$242.9	

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

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

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

The project provides field data for the final design of a roadway to connect LA 1 to LA 415. The project is a supplement to previously performed surveying for the realignment of the due to recent development and construction. The project limits included a 2.9-mile corridor beginning approximately 0.2 miles north of the intersection of I-10 and LA 415 and continuing in a southeasterly direction along the extension of LA 415 across the intercoastal canal, industrial areas, and agriculture field to the intersection of LA. The project limits also include an approximate 1.8-mile corridor along LA 1 that extends from the roadway into residential, commercial, and retail areas. The project includes the collection of current conditions of the areas included in the project limits and merging the current data with the previous survey and updating any observed condition changes. The project includes the recovery and supplement of the existing control network. The collection of field data is completed through the utilization of conventional survey methods with survey total stations and global positioning systems (GPS). Mobile LiDaR survey methods utilized for the collection of data along the high



traffic segments of LA 1, Interstate 10 ramps, and LA 415. The data was processed through Trimble Business Center, with data extraction performed through TopoDot. The survey is being conducted according to the Louisiana Department of Transportation and Development Location and Survey Manual. The deliverables will be provided in accordance with the LADOTD guidelines for electronic deliverables.

Firm name	SJB Group, LLC		Discipline(s)*	Survey, Right-of-Way				
Project name	I-10 Widening from LA	415 to Essen		Firm responsibility (prime or sub?) Prime				
Project number	H.0016118	Owner's name	LA Department of Transportation and Development					
Project location	East Baton Rouge Paris	sh, Louisiana	Owner's Pro	ject Manager Mark Hughes				
Owner's address, pho	one, email 1201 Capitol A	Access Road, Bator	Rouge, LA 70802 225-3°	79-1206 <u>Mark.Hughes@la.gov</u>				
Services commenced	by this firm (mm/yy)	7/21	Total consultant contract c	\$148,326				
Services completed b	by this firm (mm/yy)	Ongoing	Cost of consultant services	s provided by this firm (\$1,000's)	\$148,326			

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

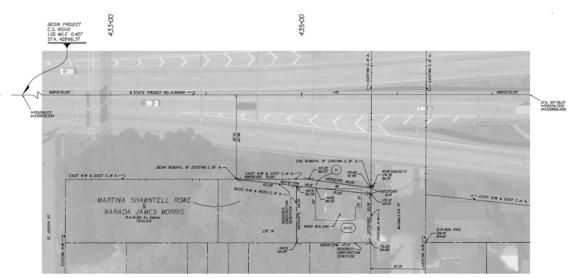
Firm's Role and Responsibilities: Property Survey, Topographic Survey, Right-of-Way Mapping, Subsurface Utility Engineering (SUE)

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

SJB Group performed **property surveying**, **partial topographic surveying**, **and right-of-way mapping** along a 4.4-mile stretch of Interstate 10 extending from LA 415 to Essen Lane in East Baton Rouge Parish for the LA Department of Transportation and Development's widening project. This project included a limited topographic survey to supplement and verify previous topographic surveys of the I-10 and I-12 corridor. Under the current IDIQ contract and task orders, SJB Group performed additional **property surveys** of specific areas designated by the project design team. This project required extensive title research to acquire the necessary existing surveys and deeds for initiation of the property survey portion in addition to the substantial amount of review of the title research reports supplied to SJB by LADOTD. It also required field surveying and mapping of an excess of one hundred parcels along the project corridor, which range in size from small urban residential lots to large commercial tracts. This project corridor

also encompasses existing drainage and access servitudes, railroad rights-of-way, and numerous side streets in the heart of Baton Rouge, all of which SJB Group surveyed and mapped. The deliverables included preparation of property map, base right-of-way maps, final right-of-way maps, MicroStation drawing files in Bentley Design Files, right of way map sets, and the preparation of a parcel input file of the acquisition parcels.

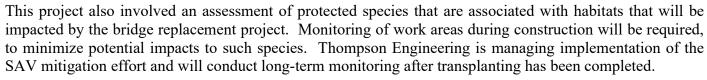
The survey was conducted according to the LA Department of Transportation and Development Location and Survey Manual, Addendum "A" requirements. The deliverables were provided in accordance with the LADOTD guidelines for electronic deliverables.



Firm name	Thompson Engineering	, Inc.	Discipline(s)*	Enviro	nmental			
Project name	Tensaw-Spanish River	Bridge Replaceme	nt	Firm responsibility (prime or sub?) Prime				
Project number		Owner's name	Alabama Department of	f Transportation				
Project location	Mobile Bay, AL		Owner's Pro	oject Manager	Adam Anderson			
Owner's address, phor	ne, email 1409 Coliseum	Blvd, Montgomer	y, AL 36110, 334-242-683	33, andersonad@	dot.state.al.us			
Services commenced	by this firm (mm/yy)	01/2021	Total consultant contract c	cost (\$1,000's)		\$742,000		
Services completed by	this firm (mm/yy)	Ongoing	Cost of consultant services	s provided by thi	s firm (\$1,000's)	\$488,000		

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

Thompson Engineering was Prime Contractor for environmental assessment and permitting of the proposed U.S. Hwy 98 bridge replacement project at the Tensaw-Spanish River crossing in Baldwin County, Alabama. This project involved mapping of wetlands and SAV in the construction area and required development of a mitigation plan for SAV impacts. Several locations in the vicinity of the bridge were surveyed for presence/absence of SAV and for water depth, to identify a suitable site for restoration of SAV through transplanting of impact site and donor site plants into the mitigation site. Approval of the mitigation plan was coordinated with ALDOT, USACE, NOAA, and ADEM.





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**.

If the consultant has information it believes is proprietary, label it accordingly.

- BRIDGE DESIGN

The design team will perform the superstructure design, including barriers and sidewalk, using AASHTO LRFD Bridge Design Specification, 10th Edition, 2024.

MCA Engineering will gather all relevant information about this bridge prior to starting the design process. To validate dimensional information, MCA Engineering intends to perform a 3d laser scan of this structure at the same timeframe when the topographic survey is scheduled to take place at no additional cost to the project.

The calculations package will include hand calculations in addition to a structural Finite Element Analysis (FEA) model of the bridge.

The following loads will be considered in accordance to AASHTO LRFD Chapter 3:

Permanent Loads

DC = dead load of structural components and non-structural attachments

DW = dead load of wearing surfaces and utilities

SH = force effects due to shrinkage

CR = force effects due to creep

Transient Loads:

LL = vehicular live load

IM = vehicular dynamic load allowance (impact load)

BR = vehicular breaking force

CT = vehicular collision force

LS = live load surcharge

PL = pedestrian live load

TU = force effect due to uniform temperature

Load Combinations and Load factors will be applied according to section 3.5 to determine the load effects on the bridge elements.

The vehicular live load will be determined based on the calculated live load design lane based on the bridge width. The maximum live load effect will consider all possible load combinations of number of lanes loaded multiplied by the corresponding multiple presence factor (MPF). This will be used mainly for verification of the intermediate substructure because we assume a slab bridge will be designed for this project.

The design vehicular live load considered will be HL-93 (truck, tandem and lane loads).

- HYDRAULIC STUDY

MCA Engineering, LLC will prepare the Hydraulic Report for this project. The U.S. Army Corps of Engineers Hydrologic Engineering Centers River Analysis System (HEC-RAS) Computer Program will be used to determine water surface elevations for the 2-, 5-, 10-, 25-, 50-, and 100-year discharge events. This initial modeling system task is designed to calculate water surface profiles for steady, gradually varied flow. Watershed Boundary Dataset (WBD) will be obtained from the USGS National Map website to be overlaid on the USGS QUAD maps to delineate the watershed area for this bridge. The Drainage Map required will then be created. Design flows will be based on the calculated drainage area. A threshold of 2,000 acres will be used to determine if the USGS Method with an isohyetal line map for mean annual rainfall data is applicable. If this threshold is not exceeded, the Natural Resources Conservation Service (NRCS) Method, utilizing Soil Groups and the Hydrologic Classification of Soil to calculate the appropriate Runoff Curve Number (CN), will be used in conjunction with the LADOTD 24-Hour Rainfall Frequency Maps and I-D-F Curves to determine design flows. Geometric cross-sectional data will be obtained from the topographic survey as well as applicable computer programs and used in HEC-RAS. Using the flows derived from the current LADOTD Hydraulics Manual, the HEC-RAS program will be used to calculate the backwater of the existing bridge and to recommend the most efficient replacement structure. Scour calculations will be based on the latest FHWA methods hydraulic engineering applications to calculate contraction and local scour at piers and abutments. Our design team will be released to develop the Preliminary Plans for the proposed bridge once the Hydraulic Report is approved by the DOTD Hydraulics Section.

- SURVEYING

Topographic Survey – Any topographic and bathymetric surveys will be in accordance with all principles and objectives set forth in the latest version of the DOTD Location and Survey Manual. All deliverables will be developed in accordance with the current Location and Survey Section's list of topographic survey submittal requirements.

Drainage Map – When required by a task order, an existing drainage map will be prepared. The existing drainage map will be in accordance with Section 2.6.1 of the DOTD Hydraulics Manual and will include existing drainage structure locations (size & type & inverts/tops), break lines for drainage boundaries,

and a determination of existing drainage patterns within the project limits. The existing drainage survey will include any highwater marks and the nearest outfall locations for the project area.

Title Take-Offs & Boundary Survey – SJB will begin any property boundary tasks by acquiring title reports or title takeoffs. The property records data will be used to proceed with field investigation to recover property boundary monumentation and observe the monumentation recovery to determine the property boundaries and existing right of way. SJB will process and analyze monumentation and depict the property boundaries and existing right-of-way on the property survey map.

Right-of-way Maps – SJB will incorporate the property survey map, the adopted project centerline, parcel line locations and ownership, required right- of-way, limits of construction, and critical topographic features into the 60% base maps. SJB or CD&C will attend a Joint Plan Review (JPR) meeting hosted by DOTD. The surveyor will then incorporate any JPR comments and provide Final Right-of-way Map deliverables in the standard DOTD format as specified in the Location and Survey Manual Addendum "A".

- WETLANDS SURVEY

Thompson wetland specialists perform wetland delineations according to the criteria set forth in the regionally appropriate supplement to the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual; in this case the Atlantic & Gulf Coast Regional Supplement is the reference guidance. Regarding streams, Thompson Engineering utilizes the North Carolina Division of Water Quality – Methodology for Identification of Intermittent and Perennial Streams and Their Origins v. 4.11, September 1, 2010 (NC Method) technical guideline to determine if there are any potential jurisdictional streams, and if so, the most appropriate classification (intermittent or perennial). Stream Identification Forms (v. 4.11) are used to classify streams that are not clearly perennial (i.e. well-defined channel that contains water year-round, groundwater is the primary source of water and exhibits the typical biological, hydrological, and physical characteristics commonly associated with the continuous conveyance of water).

When performing a wetland survey Thompson specialists evaluate a site's hydrology, vegetation, and soils. Wetland hydrology generally is recognized on the basis of depth to saturation and water table, although indicators of hydrology are also relied upon when conditions are relatively dry; such as the presence of crawfish chimneys, water-stained leaves, oxidized rhizospheres and several other indicators. Observations are made of the relative abundance/dominance of the plant species observed, and their wetland indicator status is documented. Thompson has found that the presence/absence of hydric soils is generally the most consistent measure of wetland conditions.

Hydric soil indicators are features in the soil formed predominantly by the accumulation or loss of iron, manganese, sulfur, or carbon compounds under saturated and anaerobic conditions. Of particular importance is the uppermost 10-16 inches of the soil profile; redoximorphic features (observed as red, orange, yellow mottles) and/or signs of reduced iron within the matrix (splotchy lighter grey areas within a soil profile), mucky soils formed by accumulation of organics under anaerobic conditions, or sulfidic odors caused by sulfate reduction are present, the investigator will conclude that hydric (wetland) soil conditions are present. It is important to note that all three wetland parameters must be present for a site to be classified as a federally jurisdictional wetland.

Thompson biologists utilize the guidance for determining the presence of hydric soils found in the 2024 "Field Indicators of Hydric Soils in the United States, Version 9" developed by the NRCS in cooperation with the U.S. Fish and Wildlife Service (FWS), USACE, and the Environmental Protection Agency (EPA). Thompson's senior wetland delineators (David Knowles and Matthew Stowe) have a certificate of training for a hydric soils training course tailored to wetland scientists and conducted in accordance with the standards of the National Technical Committee for Hydric Soils and Whole Landscape Hydrology; the course was taught at the time (2006) by Mr. G. Wade Hurt. Mr. Hurt worked at the USDA Natural Resources Conservation Service in Gainesville, FL and was one of the individuals responsible for creating the Atlantic & Gulf Coast Regional Delineation Supplement and the afore-mentioned Field Indicators of Hydric Soils.

	PROJECT SCHEDULE																							
DELIVERABLES		MONTHS																						
DELIVERABLES	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
KICK OFF																								
SURVEY																								
HYDRAULICS																								
ENVIRONMENTAL																								
DOTD REVIEW																								
PRELIMINARY PLANS																								
FINAL PLANS																								
CONSTRUCTION SERVICES																								

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.

List only the portion of the fees attributable to firms on the team.

Firm(s) <u>ALL FIRMS</u> MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
MCA Engineering, LLC	N/A	N/A	N/A	N/A
SJB Group, L.L.C	Survey	Contract No: 44-17597	IDIQ Surveying Services	\$667
_		S.P. No. H.4400017597	Rural Bridge Replacement Initiative	
SJB Group, L.L.C	Survey	Contract No: 44-16018	LA 339 Canal and Creek Bridge	\$4,393
		S.P. No. H.0120012.5		ŕ
SJB Group, L.L.C	Survey	Contract No: N/A	US 167 Johnston St. – Mt. Vernon -	\$39,723
2 '		S.P. No. H.013716.5	Churchill	
SJB Group, L.L.C	Survey	Contract No: 44-17711	LA 1 – LA 415	\$55,888
_		S.P. No. H.005121.5		
		Task Order 5		
SJB Group, L.L.C	Survey	Contract No: N/A	I-10 Calcasieu Project P3	\$3,500,000
_	Ū	S.P. No. H.003931	·	
SJB Group, L.L.C	Survey	Contract No: 44-19379	LA 30: EBR PL – I-10 – Part 1	\$600
_	-	S.P. No. H.013797		
SJB Group, L.L.C	Right-of-Way	Contract No: 44-28371	I-10 LA 415 Acadian	\$10,536
_		S.P. No. H.004100.5 Directive 1		
SJB Group, L.L.C	Right-of-Way	Contract No: 44-28371	I-10 LA 415 Directive 2	\$1,536
_		S.P. No. H.004100.5 Directive 2		
SJB Group, L.L.C	Right-of-Way	Contract No: 44-28371	I-10 LA 415 to Essen – Directive 3	\$84,651
		S.P. No. H.004100.5 Directive 3		
SJB Group, L.L.C	Other (DBE)	Contract No: 44-26952	LA DBE Supportive Services	\$490,714
		S.P. No.		
Thompson Engineering, Inc.	Geotech	#4400019016 / H.015013.5 Geotech	IDIQ FOR GEOTECHNICAL SERVICES	\$58,020
			STATEWIDE	
Thompson Engineering, Inc.	Geotech	#4400019016 / H.014986.5 Geotech	IDIQ FOR GEOTECHNICAL SERVICES	\$37,755
			STATEWIDE	

Thompson Engineering, Inc.	Geotech	#4400019016 / H.015014.5 Geotech	IDIQ FOR GEOTECHNICAL SERVICES	\$34,345
			STATEWIDE	

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

^{**} Round to the nearest dollar. **<u>Do not</u>** 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: <u>**ALL**</u> FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

20. <u>Certifications/Licenses:</u>
If the advertisement requires submission of licenses and/or certificates, include them here. **Otherwise, leave this section blank**.



Nouisiana Professional Engineering Qand Surveying Board

Heroby Cortifies that

Dr. Marcio Costa Araujo

having qualified before this Board in accordance with laws is licensed as a

Professional Engineer

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

Baten Reugo Leuisiana · 66/22/2010

A Ci Mustapha

License No

License Number 35506

Louisiana State University

and

Agricultural and Mechanical College

On the Momination of the Faculty of the

Graduate School

has conferred upon

Marcio Costa Araujo

the degree of

Doctor of Philosophy

with all the Bonors, Rights and Privileges to that degree appertaining.

In testimony Whereof, the seal of the University and the signatures as authorized by the Board of Supervisors are hereunto affixed. Siven at Baton Rouge, Louisiana on the lifteenth day of May in the year two thousand and nine.

Chairman of the Woard at Supervisors

Presibent

Ehantellor

Thean

Congratulations! Marcio Araujo

You have completed

Traffic Engineering Analysis Process & Report Class Modules 1, 2 &3

Date:

August 17-18, 2022

Location:

Baton Rouge, Louisiana

Professional Development

Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor





LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD

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

Mr. Charles Timothy Brewer

License/Certificate Type - Number

Expiration Date

PLS.0005009

09/30/2025

Status: Active



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD

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

Mr. Matthew Samuel Estopinal

License/Certificate Type - Number

Expiration Date

PE.0039151

03/31/2025

Status: Active



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD

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

Mr. Matthew Samuel Estopinal

License/Certificate Type - Number

Expiration Date

PLS.0004955

03/31/2025

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

Mr. Colby Robert Mire

License/Certificate Type - Number

Expiration Date

PLS.0005308

09/30/2025

Status: Active





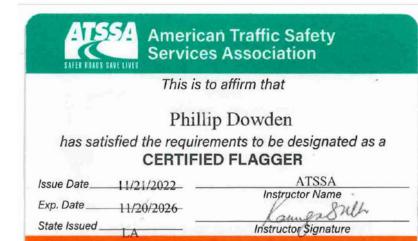
















Verify at Flagger.com





PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Colby Mire has attended

Traffic Control Technician-LA State Specific

Training Course

5/11/2021 to 5/11/2025 Training Valid Through Langa Sill-Director of Training

Baton Rouge, LA

Alaca, Tetachur President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA





Temporary Certification

Erick Kidder

for the successful completion of

Flagger

27-OCT-2023

Expiration Date:

26-OCT-2027

provides training and certification but neither constitutes employment by ATSS/ American Traffic Safety Services Association ATSSA.com



This is to affirm that

John Burleigh

has satisfied the requirements to be designated as a CERTIFIED FLAGGER

Issue Date

3/1/2022

ATSSA

Exp. Date__

2/28/2026

Instructor Name

State Issued LA

Instructor Signature

A1000053383

Verify at Flagger.com



American Traffic Safety Services Association

This is to affirm that

James Koontz

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date

3/17/2022

ATSSA

Exp. Date

3/16/2026

Laungs Sulh

State Issued

LA

Instructor Signature

A1000054194

Verify at Flagger.com



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Duke Koontz has attended

Traffic Control Technician-LA State Specific

Training Course

11/29/2022 to 11/29/2026 Training Valid Through

Langa 8nth
Director of Training

Baton Rouge, LA Location President, CEO

, resident, ea

ATSSA provides training and certification but neither constitutes employment by ATSS







21. QA/QC Plan:
If the advertisement requires submission of a QA/QC plan, include it here. Otherwise, leave this section blank. If a QA/QC plan is included in this
section and was not required by the advertisement, it will be redacted.
Prime consultant: MCA Engineering, LLC

MCA Engineering, LLC

Quality Assurance/Quality Control (QA/QC) Policy

1. Introduction

This Quality Assurance/Quality Control (QA/QC) Policy is designed to ensure that all bridge design projects conducted by MCA Engineering, LLC meet or exceed the standards, specifications, and expectations set forth by the Louisiana Department of Transportation and Development (DOTD). The goal of this policy is to establish consistent and effective QA/QC processes that ensure the safety, functionality, and durability of bridge structures while maintaining compliance with all DOTD requirements.

MCA Engineering, LLC is committed to providing high-quality bridge designs that are on schedule, within budget, and compliant with applicable safety and regulatory standards. This policy applies to all bridge design projects undertaken by MCA Engineering, LLC, including preliminary design, final design, and any required design revisions during construction.

2. Quality Assurance (QA) Philosophy

The **Quality Assurance (QA)** process focuses on ensuring that the systems, procedures, and resources employed in bridge design projects are effective and aligned with DOTD standards. QA is primarily concerned with preventing issues before they arise, and this is achieved through proactive management, oversight, and periodic verification.

Key QA Objectives:

- Compliance with DOTD Specifications: All designs, methods, and practices will comply
 with the DOTD Bridge Design Manual, Standard Specifications for Roads and Bridges,
 and relevant sections of the Louisiana Manual on Uniform Traffic Control Devices
 (LMUTCD).
- **Design Review and Verification**: All design calculations, drawings, and specifications will undergo a structured review process to verify compliance with DOTD's requirements.
- Risk Identification and Mitigation: Any risks to quality, such as design conflicts, resource limitations, or schedule pressures, will be identified early, and mitigation strategies will be implemented.
- **Continuous Monitoring**: Throughout the project, quality will be continually monitored through regular project reviews and assessments.

QA Practices Include:

- Regular peer reviews of designs at key milestones (e.g., preliminary design, final design).
- Technical audits to ensure compliance with DOTD requirements.

- Regular communication with DOTD to align design efforts with their needs and regulatory changes.
- Documented corrective actions to address any deviations found during design reviews.

3. Quality Control (QC) Philosophy

Quality Control (QC) is the reactive process used to inspect and verify that the final design output meets all required specifications. In the context of bridge design, QC focuses on ensuring that the project's drawings, reports, and specifications meet DOTD's strict requirements before submission or approval.

Key QC Objectives:

- **Design Verification**: Ensuring all design calculations, plans, and reports conform to DOTD standards and best engineering practices.
- **Conflict Resolution**: Identifying and resolving any discrepancies, errors, or conflicts in design before submission to DOTD for approval.
- **Final Design Review**: Ensuring that all elements of the design are accurate, including structural components, materials, and safety features.

QC Practices Include:

- Comprehensive internal reviews of all design packages before submission.
- Detailed checks of all calculations, design assumptions, and modeling outputs to ensure they align with DOTD guidelines.
- Independent checks by senior engineers or third-party specialists for high-risk or complex designs.
- Maintaining clear records of inspections, revisions, and final approvals to ensure traceability and accountability.

4. Objectives of QA/QC Policy

The primary objectives are:

- Ensure Compliance: Guarantee that all bridge design projects comply with DOTD's Bridge
 Design Manual and related specifications.
- Maintain High-Quality Standards: Implement structured processes to ensure the quality of bridge designs, reduce the risk of errors, and enhance the safety, durability, and performance of the designed bridges.
- **Timely Project Delivery**: Avoid delays due to quality issues by catching design flaws early in the process, allowing timely corrections and maintaining project schedules.

• **Enhance Stakeholder Confidence**: Build trust with DOTD, contractors, and the public by consistently delivering high-quality bridge designs.

5. QA/QC Roles and Responsibilities

To ensure effective implementation of QA/QC procedures, clear roles and responsibilities are assigned within MCA Engineering, LLC:

Project Manager (PM)

• **Overall Responsibility**: The Project Manager oversees all aspects of the bridge design project, ensuring compliance with project goals, timelines, and quality standards.

Key Responsibilities:

- Ensure all quality assurance and control activities are carried out according to this policy.
- Communicate with DOTD to ensure alignment with their standards and expectations.
- Address any issues that may arise and ensure corrective actions are implemented.

Lead Design Engineer

 Design Responsibility: The Lead Design Engineer is responsible for the technical design of the bridge, ensuring all calculations, drawings, and specifications comply with DOTD standards.

• Key Responsibilities:

- o Perform and oversee detailed bridge design calculations.
- o Collaborate with other engineers to ensure interdisciplinary coordination.
- Review design documents for compliance with DOTD standards and the project requirements.

QA/QC Manager

 Oversight of QA/QC Processes: The QA/QC Manager ensures that all design and review processes are properly followed, audits the design process, and maintains documentation of quality activities.

Key Responsibilities:

- o Develop and maintain the QA/QC plan.
- Conduct internal audits of designs, plans, and specifications to verify compliance with DOTD guidelines.
- o Ensure the timely identification and resolution of any design issues.

Design Engineers and Drafters

• **Technical Execution**: Design engineers and drafters work under the direction of the Lead Engineer to carry out calculations, design tasks, and prepare the final bridge design documentation.

Key Responsibilities:

- Create and update design drawings and reports.
- o Perform calculations and review design documents for quality and accuracy.
- Coordinate with the Lead Engineer and QA/QC Manager to ensure quality standards are met.

Contractor and Subcontractors (if applicable)

 Construction Quality Control: Contractors and subcontractors are responsible for maintaining their own QC processes for materials and construction methods used during implementation of the bridge design.

Key Responsibilities:

- Ensure all materials and construction methods comply with DOTD specifications.
- Submit all necessary documentation (e.g., material certifications, test reports) for review and approval.

6. QA/QC Procedures and Practices

Design Phase QA/QC Procedures

Pre-Design Phase

- **Review Project Requirements**: Review the project scope, specifications, and site conditions to ensure that the design will meet DOTD's requirements.
- **Identify Risks**: Identify and document any design challenges or potential risks that could affect the quality of the design.

Preliminary Design

- Initial Design Review: After completing the preliminary design, the Lead Engineer conducts an internal review to verify compliance with DOTD standards and regulations. The design will be reviewed by senior engineers for critical elements such as load capacity, safety features, and material selection.
- **Stakeholder Review**: A review of the preliminary design will be held with DOTD to ensure alignment with their requirements.

Final Design

- **Detailed Design Review**: The final design package, including calculations, drawings, specifications, and reports, will undergo a comprehensive internal review by the QA/QC Manager, Lead Engineer, and senior engineers.
- Independent Verification: Critical design elements such as structural calculations and complex bridge systems will undergo independent verification by senior engineers or third-party specialists, where required by DOTD.
- **Submission to DOTD**: Once verified, the final design will be submitted to DOTD for review and approval. The submission package will include all supporting documents (e.g., calculations, material specifications, and environmental impact assessments).

Construction Phase (If applicable)

- Material Testing: Materials will be tested as specified by the DOTD Standard
 Specifications for Roads and Bridges. Test results must meet DOTD's acceptance criteria.
- **Construction Inspections**: Regular inspections will be conducted during construction to verify that the design is being adhered to and that the quality of workmanship complies with DOTD standards.
- Non-Conformance Reporting (NCR): Any deviations from the approved design will be documented in a Non-Conformance Report (NCR). Corrective actions will be taken as necessary, and the NCR will be submitted to DOTD for resolution.

7. Documentation and Reporting

MCA Engineering, LLC is committed to maintaining thorough documentation for all QA/QC activities related to the bridge design project. This includes:

- **Design Review Reports**: Detailed reports of all internal and external design reviews, including comments, revisions, and final approvals.
- **Quality Control Checklists**: Checklists for design calculations, drawings, and specifications to ensure compliance with DOTD standards.
- **Non-Conformance Reports (NCRs):** Documentation of any design or construction issues, along with corrective actions taken.
- **Final QA/QC Report**: At the end of the design phase, a comprehensive QA/QC report will be compiled, summarizing all activities and ensuring compliance with DOTD specifications.

8. Training and Competency

To ensure that all personnel involved in bridge design projects are qualified to perform their roles, MCA Engineering, LLC will:

- Provide ongoing training for all engineers and designers on DOTD standards, engineering practices, and QA/QC procedures.
- Ensure that all team members have the necessary certifications and qualifications to perform their duties.
- Offer continuing education opportunities to stay current with changes in DOTD specifications and industry best practices.

9. Continuous Improvement

MCA Engineering, LLC is committed to continuous improvement in the execution of QA/QC procedures:

- **Post-Project Review**: After the completion of each project, a post-project review will be conducted to identify areas for improvement in the QA/QC process.
- **Feedback Loop**: Input from DOTD, project stakeholders, and internal team members will be used to improve processes and ensure future projects are delivered with even higher quality standards.
- **Process Updates**: The QA/QC policy will be updated periodically to reflect changes in DOTD requirements and industry standards.

10. Conclusion

This **QA/QC Policy** ensures that all bridge design projects undertaken by **MCA Engineering, LLC** meet the highest quality standards in compliance with the **Louisiana Department of Transportation and Development (DOTD)** guidelines and attached **Appendices A through D**. By adhering to these procedures, MCA Engineering guarantees that every bridge design is safe, reliable, and meets the performance expectations of DOTD.

Appendix A 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.

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

Bridge Barrier

Limit States

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.

Appendix B 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)
submit	tants shall submit the final calculation book to LADOTD bridge task managers; the tal shall be on a CD or Flash Drive or placed to a designated ProjectWise folder including lowing information:
_ _ _	A PDF File of the Calculation Book All Electronic Design Files A PDF File of the As-Designed Rating Report Only

The final calculation book for in-house projects shall include the same files listed above for consultant projects. The final calculation book and other final design documents for all projects including in-house and consultant projects shall be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

Appendix C QA Information Package Checklist

Project No.: Project Descri	ntion:
110,000 0000	ption.
	Calculation Book
	Plans
	Special Provisions
	Cost Estimate
	Other Documents

Appendix D QC/QA Certification

Project No.:		
Project Name:		

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

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

22. <u>Sub-consultant information:</u>

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	Address	Point of Contact and email address	Phone Number
(Name must match <u>exactly</u> as registered			
with Louisiana's Secretary of State			
(SOS): including punctuation, include			
screenshot(s) from SOS at the end of			
Section 20)			
SJB Group, L.L.C.	5344 Brittany Drive, Baton	Charles "Tim" Brewer	225-769-3400
	Rouge, LA 70808	<u>Tim.Brewer@sjbgroup.com</u>	
Thompson Engineering, Inc., of Louisiana	2970 Cottage Hill Road, Suite	Kendall Kilpatrick, PE – CEO	251-666-2443
	190	kkilpatrick@thompsonengineering.com	
	Mobile, AL 36606		

Prime consultant: MCA Engineering, LLC

23. Location:

If location is an evaluation criterion for this advertisement (see page 2) and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement.

Prime consultant: MCA Engineering, LLC