



IDIQ CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES

STATEWIDE WITH MAJORITY OF WORK IN DISTRICTS 02, 03, 07, 61, AND 62

SEPTEMBER 14, 2023

CONTRACT NO.
4400027686

Submitted to:
Louisiana Department of Transportation
and Development (DOTD)



Submitted by:
Forte and Tablada, Inc.





SECTIONS 1-11

DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

1. Contract title as shown in the advertisement	IDIQ Contract for Professional Hydrographic Surveying Services Statewide with Majority of Work in Districts 02, 03, 07, 61, and 62
2. Contract number(s) as shown in the advertisement	Contract No. 4400027686
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	Forte and Tablada, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0000330 - Engineering VF.0000055 - Surveying
6. Prime consultant mailing address	Forte and Tablada, Inc. 9107 Interline Avenue Baton Rouge, LA 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	Forte and Tablada, Inc. 9107 Interline Avenue Baton Rouge, LA 70809
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Brad Holleman, P.E.,P.L.S. – Sr. Vice President - Survey / AMM (225) 927-9321 bholleman@forteandtablada.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Russell J.“Joey” Coco, Jr. – President/CEO (225) 927-9321 jcoco@forteandtablada.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:



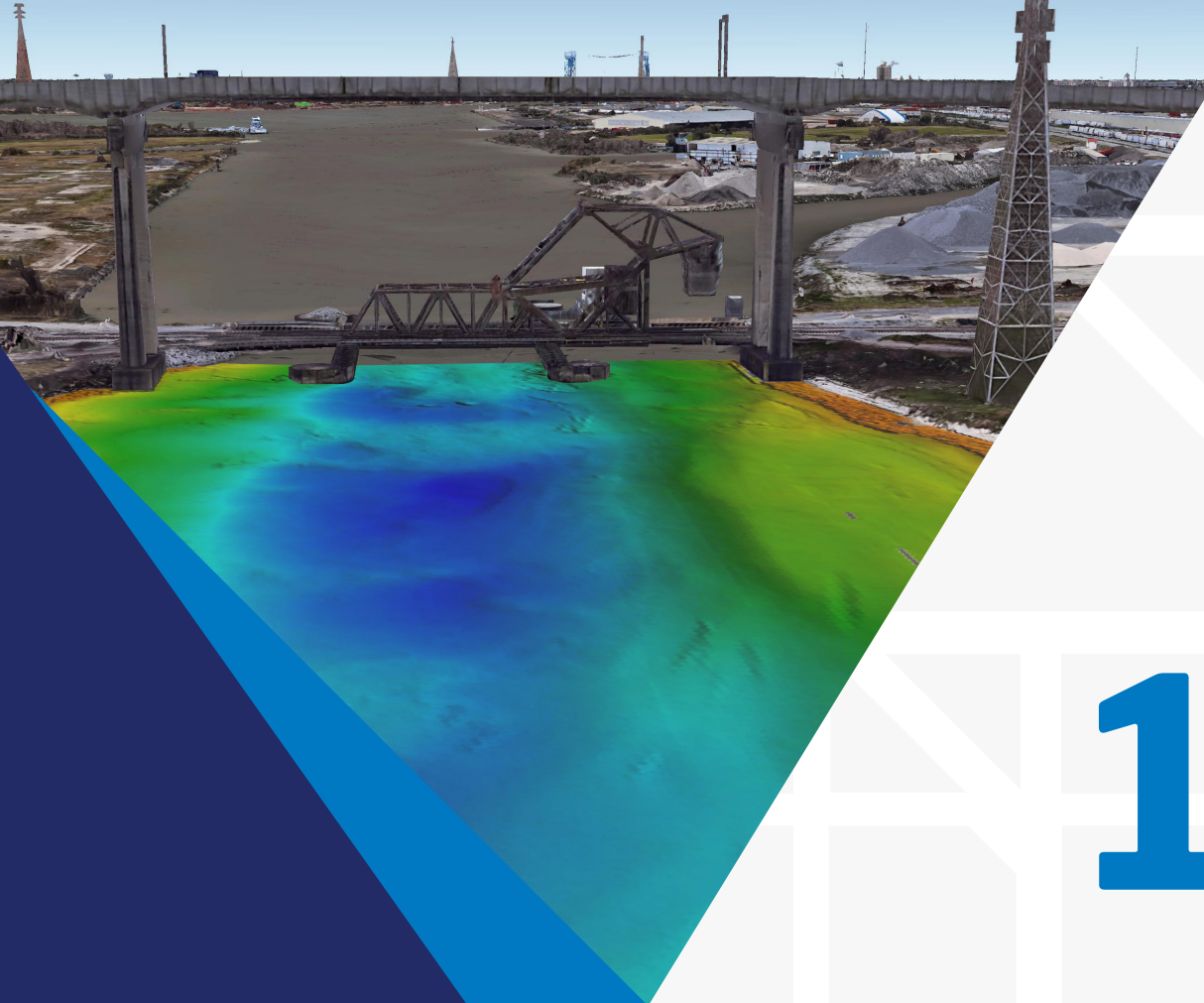
Date: 9/12/2023

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

Firm(s):

Firm(s)' %:


No DBE Goal




SECTIONS 12-15

12. Past Performance Evaluation Discipline Table:

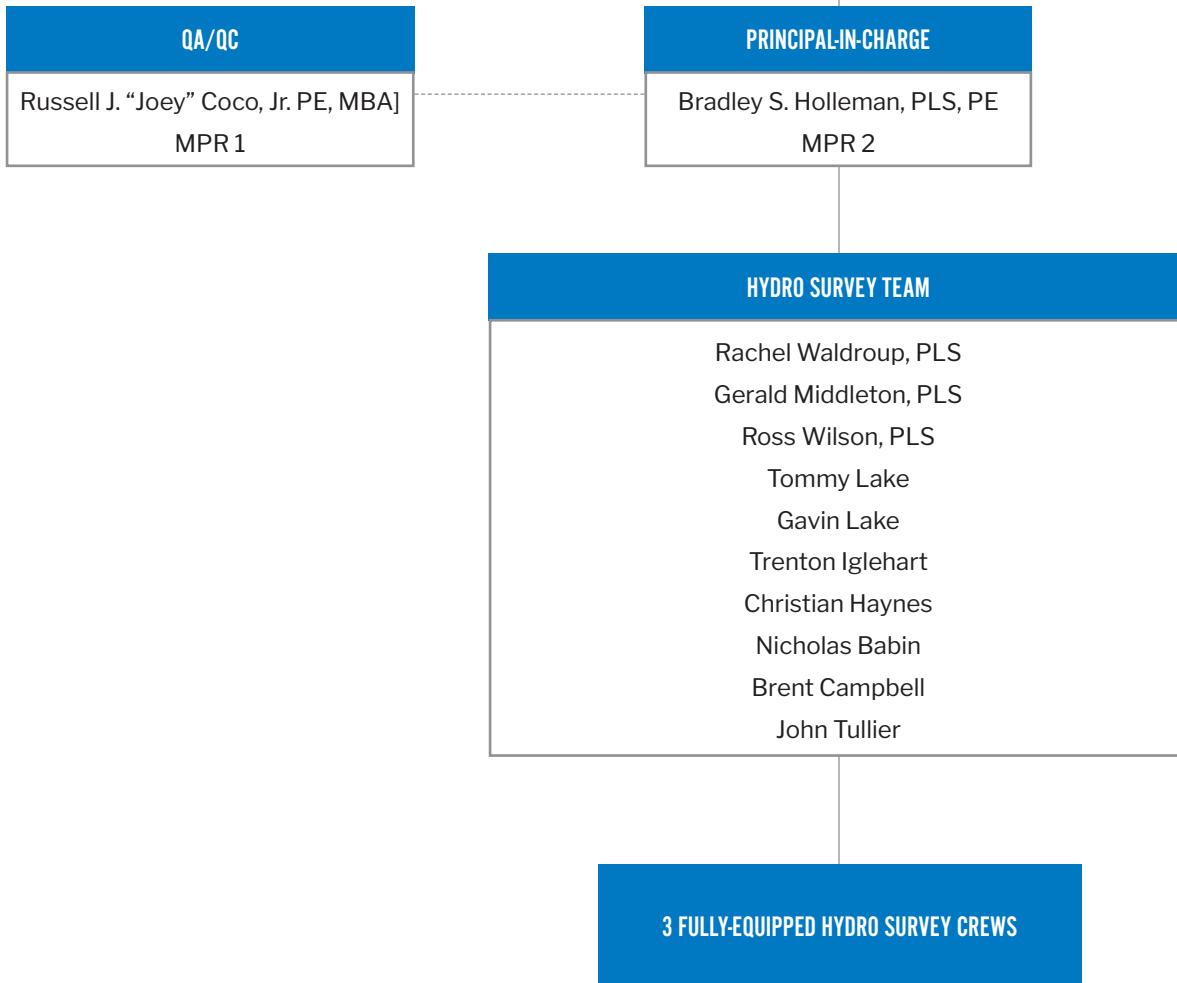
As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for **each past performance evaluation discipline**, as well as the overall total percent of the contract.

Past Performance Evaluation Discipline(s)	% of Overall Contract
Survey	 100%

13. Firm Size

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Party Chief	2	6
	Principal	1	3
	Senior Technician	2	6
	Technician	4	14
	Surveyor	3	5

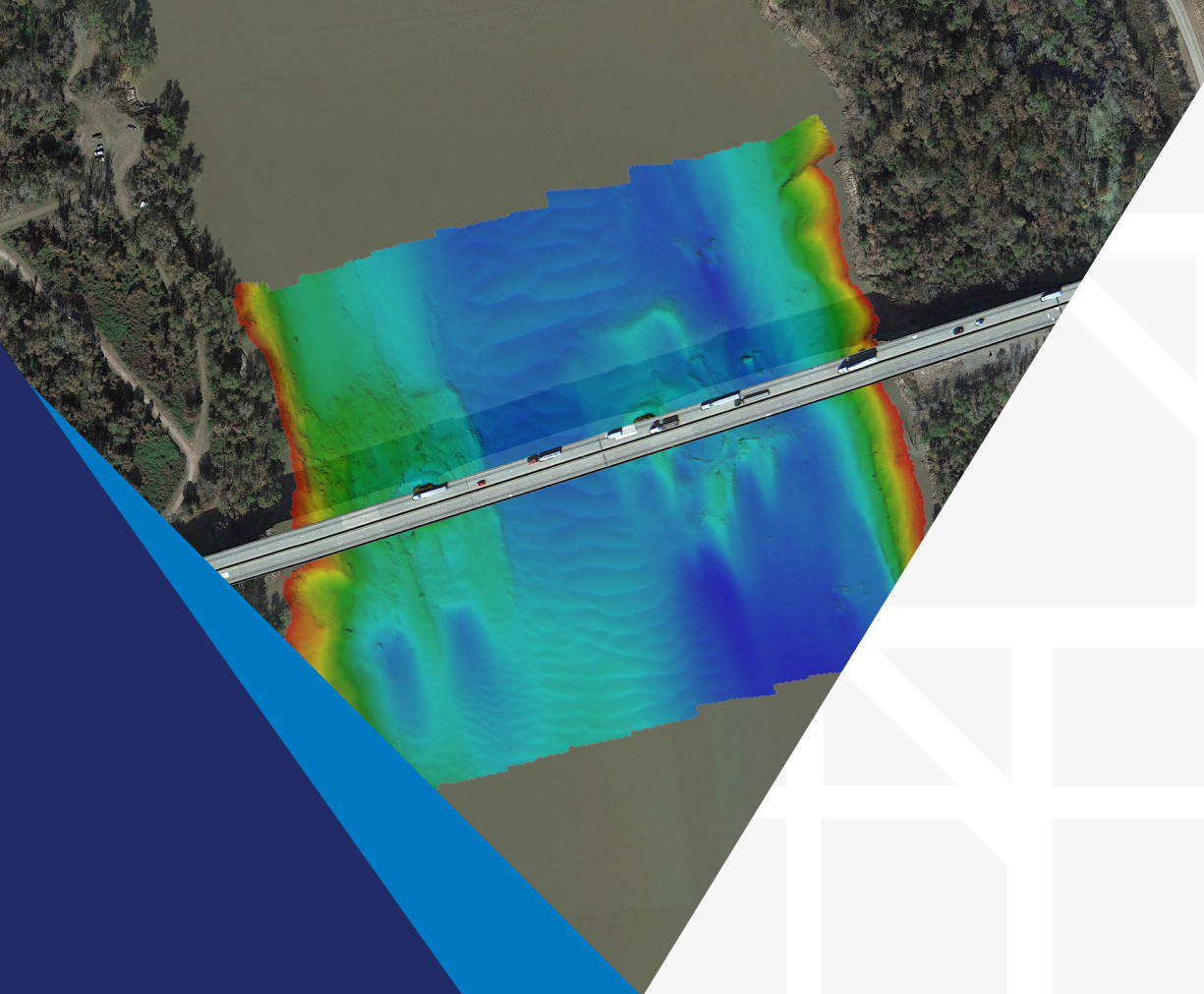
14. Organizational Chart:



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	Russell J. "Joey" Coco, Jr. PE, MBA		PE 31337 - Civil	LA	9/30/2024
2	Bradley S. Holleman, PLS, PE		PLS 5082 - Land Survey/ PE 47165 - Civil	LA LA	9/30/2024 03/31/2025



SECTION 16



16. Staff Experience:

Firm employed by				
Name	Russell "Joey" Coco, P.E., MBA	Years of relevant experience with this employer	9	
Title	President/CEO	Years of relevant experience with other employer(s)	13	
Degree(s) / Years / Specialization		BSCE / 2000 / LSU MBA / 2006 / LSU Coastal Engineering Certificate / 2008 / Old Dominion University		
Active registration number / state / expiration date		31337 / LA / 09/30/2024		
Year registered	2004	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		QA/QC		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23-08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Principal-in-Charge for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
05/22-10/22	LA DOTD Underwater Acoustic Imaging, Statewide, LA – Principal-in-Charge for aiding in the field acquisition of multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges locations ranged from Inner Harbor Navigation Canal in New Orleans to the Mississippi River in Baton Rouge. Data was then extracted from the multibeam data to provide depths at predetermined locations along the bridge and immediate area.			
06/17-02/19	Amite River Basin Model- Hydrographic Survey - Livingston Parish, LA - Principal-in-Charge to provide hydrographic surveying of the Amite River and Comite River. Tasks included typical cross-sections of these rivers, as well as detailed 3-D bathymetric data collected with sonar equipment, ground control for LIDAR of the Amite River Basin, and a high- resolution survey of the Amite River Diversion Weir utilizing a variety of techniques including multi-beam sonar and traditional survey methods.			
03/13-07/15	H.004698 – Almonaster Avenue Lift Bridge, Orleans Parish, LA - Principal-in-Charge responsible for overseeing the complete topographic and property surveys, developing a drainage map, and establishing existing right-of-way for North line of I-10.			
05/19-09/19	H.000303.6-Danziger Bridge Rehabilitation - Orleans Parish, LA - Principal overseeing survey investigation of Danziger Bridge. Included laser scanning and comparison of actual conditions to original plans.			
10/18 - 12/18	LADOTD 4400010587- Sunshine Bridge Repair- St. James Parish, LA - Principal overseeing topographic surveying and terrestrial LIDAR services for the LA DOTD Sunshine Bridge Emergency Repair project following the severe impact of a barge mounted crane with the lowest horizontal bridge chord.			
11/19 - 11/20	LADOTD S.P. No. H.012083.5- Calcasieu River Bridge Investigation- Calcasieu Parish, LA - Principal overseeing laser scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA.			
5/17 - 10/17	LADOTD S.P. No. H.013052- LA 442 Tangipahoa River Bridge Replacement- Tangipahoa Parish, LA - Principal overseeing topographic surveying for the LA 442 bridge over the Tangipahoa River. The survey included numerous cross-section surveys upstream and downstream of the bridge, as well as the along the bridge fascia. The work was performed utilizing shallow, flat-bottomed boats as a result of the shallow and sandy river bottom and was provided to engineers for the purpose of hydraulic analysis and bridge preservation and replacement considerations.			

16. Staff Experience:

Russell “Joey” Coco, P.E., MBA (CONT.)	
08/19-1/20	H.011670-I-10/Loyola Interchange Improvements - Kenner, LA – Principal-in-Charge overseeing Topographic Survey, Right-of- Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.
11/18-04/19	H.011684.5-LA 327 Spur: Staring Lane Extension – East Baton Rouge Parish, LA – Principal-in-Charge for comprehensive topographic surveying services and developing a drainage map for the Staring Lane Extension project for LA DOTD. Included in this work was a survey performed utilizing traditional methods and terrestrial laser scanning of roadway surfaces.
09/17-12/19	S.P. No. H.011808.5- Palmetto Co. Canal Bridge - St. Landry Parish, LA - Principal-in-Charge to provide property surveys, title take-offs, and right-of-way map services for the removal and replacement of a timber trestle bridge that spans Bayou Des Glaises, located along LA. Hwy. 10 in St. Landry Parish near the town of Palmetto, LA.
06/18-12/19	LA 98: Roundabout at Mills St - Lafayette Parish, LA – Principal-in-Charge for right of way surveys for this project that requires construction of new roundabout at the intersection of Mills Street and W. Gloria Switch Road (LA Hwy 98) in Lafayette Parish, Louisiana.
05/17-10/18	H.004791.5-Belle Chasse Bridge and Tunnel Replacement Survey- Plaquemines Parish, LA- Principal-in-charge for comprehensive topographic surveying services for the Belle Chasse Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.
10/18-7/21	East Baton Rouge Stormwater Masterplan - East Baton Rouge Parish, LA- Principal-in-Charge for hydrographic surveying of bayous and creeks located within East Baton Rouge Parish for the EBR Stormwater Masterplan. The work consists of establishing cross-sections and stream bed profiles along their length.
02/17-03/18	LA DOTD H.010753.5 – US 90 / I-310 Interchange – St. Charles Parish, LA – Principal-in-Charge responsible for topographic surveying and 3-D laser scanning at the intersection of US90 and I-310 in St. Charles Parish. This project will allow improvements for safety and efficiency. The complete topographic survey includes all utilities with depths and all drainage required along with finish floor elevations of all buildings that fall within the survey limits.
08/14-Ongoing	LA DOTD H.004273.5 – I-49 Connector – Lafayette Parish, LA – Principal-in-Charge responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.
05/13-Ongoing	Old Hammond Highway – Segment 1- East Baton Rouge Parish, LA- Principal-in-Charge for an environmental study and engineering services to design and construct a four-lane boulevard with a raised median and turn lanes and includes several roundabouts. The project will also include traffic signalizations, utility relocations, testing, lighting, landscaping, right-of-ways, and environmental mitigation. This project is part of the Green Light Plan.
05/17-Ongoing	LA DOTD S.P. No. H. 009859.5- Load Rating of Bridges – Statewide, LA – Served as a review engineer for load rating of statewide bridges.
01/10-12/12	LA DOTD S.P. No. 450-10-0159- I-10: Siegen Lane to Highland Road Design Build ITR – East Baton Rouge Parish, LA – Served as leader of Independent Technical Review of all bridge structures.



16. Staff Experience:

Firm employed by				
Name	Bradley S. Holleman, P.E., P.L.S.	Years of relevant experience with this employer	2.5	
Title	Senior Vice President, Survey/AMM	Years of relevant experience with other employer(s)	14	
Degree(s) / Years / Specialization		BSCE / 2009 / Civil Engineering		
Active registration number / state / expiration date		5082 / LA PLS / 9/30/2024; 47165 / LA PE / 3/31/2025		
Year registered	2012; 2022	Discipline	Land Surveying/Civil Engineering	
Contract role(s) / brief description of responsibilities		Principal-in-Charge		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
05/12 - 09/12	H.009456 – Tchefuncte River Bridge, Tangipahoa Parish, LA – Surveyor-in-Charge for the hydrographic survey, topographic survey and existing drainage map. This project was for a bridge replacement over the Tchefuncte River in Tangipahoa Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits. A hydrographic survey was performed on the Tchefuncte River for this project. This project demonstrates Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.			
09/13-03/14	H.002375 Amite River Bridge, French Settlement, LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a new bridge over Amite River in French Settlement, Louisiana to the replace the existing swing bridge. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits. A hydrographic survey was performed on the Smite River for this project. This project demonstrates Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.			
03/17-03/18	H004987 US 190 Collins Blvd, Covington, LA - Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits. This project demonstrates Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.			
06/23-08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Principal-in-Charge for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
05/-10/22	LA DOTD Underwater Acoustic Imaging, Statewide, LA – Principal-in-Charge for aiding in the field acquisition of multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges locations ranged from Inner Harbor Navigation Canal in New Orleans to the Mississippi River in Baton Rouge. Data was then extracted from the multibeam data to provide depths at predetermined locations along the bridge and immediate area.			
06/21 - Ongoing	H.014219, H.014222, H.014231, H.0142636, H.014228 – Rural Bridge Replacement Initiative Phase II; 5 State Project Numbers (20 Structures), Districts 04 and 05, LA – Surveyor-in-Charge providing topographic surveying services and right-of-way mapping services of 20 bridges in Louisiana. PLS performing property surveys and establishing existing right-of-way for 5 state project numbers.			
01/21 – 03/22	H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990 – Rural Bridge Replacement Initiative Phase I; 7 State Projects Numbers (22 Structures), Districts 04, 05, 08 and 58, LA – Surveyor-in-Charge providing topographic surveying services and right-of-way mapping services of 22 bridges in Louisiana.			

16. Staff Experience:

Bradley S. Holleman, P.E., P.L.S.(CONT.)	
08/21 – 06/22	Calcasieu River Bridge (HBI), Lake Charles, LA – Surveyor-in-Charge for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.
01/18 – 04/20	H.004100 I-10: LA 415 to Essen Lane, Baton Rouge, LA – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
04/20 – 11/20	H.000688 US 11 Norfolk Southern RR Overpass, St. Tammany Parish, LA – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of a new US 11 overpass over Norfolk Southern Railroad. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
02/20 – 08/20	H.010652 LA 73: US 61 (Airline) to Essen Lane, Baton Rouge, LA – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of improvements to Jefferson Highway from Airline to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all drainage required along with finished floor elevations of all buildings that fall within the survey limits.
6/19 – 12/19	H.011645 LA 3002 Access Management, Livingston Parish, LA – Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of a median and turnarounds on LA 3002 in Livingston Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
5/18 – 4/19	H.012591 I-10 Paris Road Lake Pontchartrain, New Orleans, LA – Surveyor-in-Charge for the topographic survey, 3D Mobile laser scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
3/17 – 3/18	H004987 US 190 Collins Blvd, Covington, LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
6/16 – 2/17	H.000263 Chef Menteur Pass Bridge, New Orleans, LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
12/14 – 3/16	H.011137 & H.011152 I-12 (LA 21 to LA 59), St. Tammany Parish, LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
6/15 – 12/15	H.011224 US 190 Guardrail / Rutting Repair, Point Coupee Parish, LA – Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a replacement guardrail along US 190 in Pointe Coupee Parish due to damage. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.

16. Staff Experience:

Firm employed by					
Name	Ross A. Wilson, P.L.S.		Years of relevant experience with this employer		11
Title	Surveyor		Years of relevant experience with other employer(s)		2
Degree(s) / Years / Specialization	BS / 2010/ Geomatics				
Active registration number / state / expiration date	5148 / LA / 03/31/2024				
Year registered	2015	Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities	Professional Land Surveyor				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).				
05/17 – 10/18	H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, LA - Surveyor for comprehensive topographic surveying services for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.				
03/13-07/15	LA DOTD H.004698 – Almonaster Avenue Lift Bridge, Orleans Parish, LA – Survey Manager responsible for performing topographic and property surveys, developing a drainage map, establishing existing right-of-way for the north line of I- 10, Almonaster Avenue, and CSX Railroad property, and establishing elevations to develop a Digital Terrain Model with widths matching the limits of the topographic survey.				
08/19-Ongoing	H.011670-I-10/Loyola Interchange Improvements, Kenner, LA - Project Manager providing Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.				
8/14-Ongoing	LA DOTD H.004273.5 – I-49 Connector, Lafayette Parish, LA – Survey Manager responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.				
06/18 – 12/19	LA 98: Roundabout at Mills St., Lafayette Parish, LA - Project Manager to provide right of way surveys for this project that requires construction of new roundabout at the intersection of Mills Street and W. Gloria Switch Road (LA Hwy 98) in Lafayette Parish, Louisiana.				
11/18–04/19	LA 327 Spur: Staring Lane Ext. Route LA 327-S, East Baton Rouge Parish, LA - Project Manager for a topographic survey for this project which is located in East Baton Rouge Parish, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.				
09/17 – 12/19	S.P. No. H.011808.5- Palmetto Co. Canal Bridge, St. Landry Parish, LA - Surveyor to provide property surveys, title take- offs, and right-of-way map services for the removal and replacement of a timber trestle bridge that spans Bayou Des Glaises, located along La. Hwy. 10 in St. Landry Parish near the town of Palmetto, LA.				
01/18 – Ongoing	LA DOTD H.004100- I-10 (LA 415 to Essen Lane on I-10 and I-12), East and West Baton Rouge Parishes - Project Manager for topographic survey of the work between LSU lakes and Essen Lane.				
02/17-03/18	H.010753.5- US 90 / I-310 Interchange, St. Charles Parish, LA - Surveyor responsible for topographic surveying and 3-D laser scanning at the intersection of US-90 and I-310 in St. Charles Parish.				
10/18-02/19	Sunshine Bridge Damage Survey, St. James Parish, LA - Surveyor responsible for establishing control on and near the Sunshine Bridge to use survey and laser scanning methods to monitor the damage on the bridge. This project included utilizing LiDAR data.				

16. Staff Experience:

Ross A. Wilson, P.L.S. (CONT.)	
06/19-09/19	H.000303.6- Danziger Bridge Repair, Orleans Parish, LA - Surveyor for Topographic and Monitoring survey and laser scanning of Danziger bridge. This survey is necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge. This project included utilizing LiDAR data.
01/13- 12/13	LA DOTD H.009933 – MacArthur Interchange Project Phase 1B, Orleans Parish, LA – Responsible for laser scanning general areas in support of topographical survey, including location and elevation surveys, for redundancy and volume.
01/13-03/13	LA DOTD H.009250 – I-10: Highland Road to LA 73, East Baton Rouge and Ascension Parishes, LA – Survey Manager for the topographic survey of approximately 7.0 miles to widen the interstate.
10/13-10/14	LA DOTD H.002365.5 – LA 63: Bridges near Bluff Creek, East Feliciana Parish, LA – Provided topographic surveys in preparation for bridge replacements with drainage structures along three portions of the existing highway including utility location and depths. Finished floor elevations of all buildings that fall within the survey limits were determined.
01/10-12/12	LA DOTD H.003119 – I-10 Design Build: Siegen Lane to Highland Road, East Baton Rouge Parish, LA – Technician for the construction stakeout and topographic surveying for 2.8 miles on the interstate. Utilized GPS, conventional-robotic, and differential leveling surveying on this project.



16. Staff Experience:

Firm employed by		FORTE & TABLADA		
Name	Gerald "Jerry" Middleton, P.L.S.	Years of relevant experience with this employer	11	
Title	Surveyor	Years of relevant experience with other employer(s)	37	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date		4856 / Louisiana / 09-30-2023		
Year registered	1999	Discipline	Land Surveying	
Contract role(s) / brief description of responsibilities		Surveyor		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/17-10/18	H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, LA – QC Reviewer for comprehensive topographic surveying services for the Belle Chasse Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.			
06/17-02/19	Amite/Blind River Survey, Livingston Parish, LA – for hydrographic surveying of the mouth of the Amite and Blind River in Livingston Parish.			
08/14-Ongoing	H.004273.5 – I-49 Connector, Lafayette Parish, LA – QC Reviewer responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.			
8/19-Ongoing	H.011670-I-10/Loyola Interchange Improvements, Kenner, LA – QC Reviewer for Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.			
2018-2021	East Baton Rouge Stormwater Masterplan, East Baton Rouge Parish, LA – Surveyor for hydrographic surveying of bayous and creeks located within East Baton Rouge Parish for the EBR Stormwater Masterplan. The work consists of establishing cross-sections and stream bed profiles along their length.			
01/12-12/20	H.012308- Cook Road Improvements, Livingston Parish, LA – Surveyor for Right-of-Way surveys for this project that designed improvements to an existing section of two lane roadway and an unimproved area with the construction of a four (4) lane boulevard section from LA Hwy 16 (Pete's Hwy) to LA Hwy 1026 (Juban Road), along with several bridges.			
1/20 - 10/20	H.012588, H.012169, H.012587, I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415, West Baton Rouge & Iberville Parishes, LA – Survey Manager for complete topographic survey, approximately 18.3 miles, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.			
03/15-09/20	Travis Street and George Mashon Road Off-System Bridge Replacement, Livingston Parish, LA – Right-of-Way Surveying for the replacement of George Mashon Road and Travis Street Bridges.			
06/18-12/19	H.012393- LA 98: Roundabout at Mills St., Lafayette Parish, LA – QC Reviewer to provide right of way surveys for this project that requires construction of new roundabout at the intersection of Mills Street and W. Gloria Switch Road (LA Hwy 98) in Lafayette Parish, Louisiana.			
09/17-12/19	S.P. No. H.011808.5- Palmetto Co. Canal Bridge, St. Landry Parish, LA – QC Reviewer to provide property surveys, title take-offs, and right-of-way map services for the removal and replacement of a timber trestle bridge that spans Bayou Des Glaises, located along LA. Hwy. 10 in St. Landry Parish near the town of Palmetto, LA.			

16. Staff Experience:

Gerald “Jerry” Middleton, P.L.S. (CONT.)	
01/18-6/19	H.004100- I-10 (LA 415 to Essen Lane on I-10 and I-12), East and West Baton Rouge Parishes, LA – QC Reviewer for topographic survey of the work between LSU lakes and Essen Lane.
11/16 -01/18	East Baton Rouge Computerized Traffic Signals-Phase VB, East Baton Rouge Parish, LA – Surveyor responsible for survey and mapping of eight intersections in Baton Rouge for the construction and installation of new computerized traffic synchronization equipment and components.
02/17-03/18	H.010753.5- US 90 / I-310 Interchange, St. Charles Parish, LA – QC Reviewer responsible for topographic surveying and 3-D laser scanning at the intersection of US-90 and I-310 in St. Charles Parish.
01/16-05/18	REG Geismar Land Acquisition- Alta, Geismar, LA – Supervising professional for boundary and topographic surveys subdividing Tract A-4 in Geismar, La for REG including location and establishment of approx. 1,300’ of Miss. River frontage boundary, levee and road right of way utilizing conventional and RTK GPS surveying methods.
05/17-10/17	LA 442 Tangipahoa River Bridge Replacement, Tangipahoa Parish, LA – QC Reviewer to provide topographic surveying for the LA 442 bridge over the Tangipahoa River. The survey included numerous cross-section surveys upstream and downstream of the bridge, as well as the along the bridge fascia.
03/13-07/15	H.004698 – Almonaster Avenue Lift Bridge, Orleans Parish, LA – QC Reviewer responsible for performing topographic and property surveys, developing a drainage map, establishing existing right-of-way for the north line of I- 10, Almonaster Avenue, and CSX Railroad property, and establishing elevations to develop a Digital Terrain Model with widths matching the limits of the topographic survey.
1/16	Price Street Drainage Improvements, Iberville Parish, LA – Mr. Middleton was responsible for Right of way and topographic surveys to support engineering services for a drainage study of the major drainage watershed in the area. Once the study was completed, construction plans and specifications were developed for conversion of open channel to sub-surface drainage. Construction included removal and replacement of 20’ of roadway with curb and gutter roadway, installation of large diameter metal arch drain pipes, 1500’ of drain line and catch basins.
10/13-10/14	H.002365.5 – LA 63: Bridges near Bluff Creek, East Feliciana Parish, LA – Provided topographic surveys in preparation for bridge replacements with drainage structures along three portions of the existing highway including utility location and depths. Finished floor elevations of all buildings that fall within the survey limits were determined.
1/12	Derrick Road Bridge, Iberville Parish, LA – Survey manager responsible for right-of-way maps.


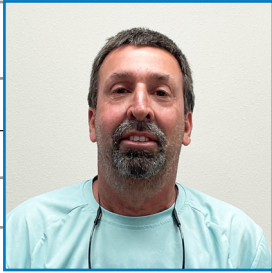
16. Staff Experience:

Firm employed by					
Name	Rachel Waldroup, P.L.S.		Years of relevant experience with this employer		8
Title	Surveyor		Years of relevant experience with other employer(s)		0
Degree(s) / Years / Specialization		BS Environment Science / 2020 AAS Civil, Surveying, and Mapping Technology / 2015			
Active registration number / state / expiration date		5277 / LA / 9/30/2024			
Year registered	2022	Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities		Surveyor			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/21 – Ongoing	IDIQ Contract No. 4400021532 for Professional Surveying Services, Statewide with Majority of Work in Districts 03 and 07, LA – PLS performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LA DOTD.				
06/21–Ongoing	H.014219, H.014222, H.014231, H.0142636, H.014228 – Rural Bridge Replacement Initiative Phase II; 5 State Project Numbers, Districts 04 and 05, LA – CADD Technician and PLS providing topographic surveying services and right-of-way mapping services of 20 bridges in Louisiana. PLS performing property surveys and establishing existing right-of-way for 5 state project numbers.				
6/20 - Ongoing	H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures), Districts 04, 05, 08 and 58, LA – Technician for topographic surveying and ROW services of 47 bridges in Louisiana.				
08/14-Ongoing	LA DOTD H.004273.5 I-49 Connector, Lafayette Parish, LA – CADD Technician for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.				
05/21 – 12/22	H.003931 Calcasieu River Bridge (HBI), Calcasieu Parish, LA – CADD Technician and PLS for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.				
4/21 - 6-21	H.014628 LA 397 Turn Lanes @ Rice Mill, Calcasieu Parish, LA – CADD Technician for this project providing a topographic survey, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.				
03/21 – 12/21	MOVEBR Florida Blvd. Corridor Enhancement, East Baton Rouge Parish, LA – CADD Technician for this project providing topographic surveying services. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.				
2018-2021	East Baton Rouge Stormwater Masterplan, East Baton Rouge Parish, LA – CADD Technician for hydrographic surveying of bayous and creeks located within East Baton Rouge Parish for the EBR Stormwater Masterplan. The work consists of establishing cross-sections, bridge profiles, and importing to a GIS database.				
08/19-01/20	H.011670- I-10/ Loyola Interchange Improvements, Kenner, LA – CAD Technician for this project providing Topographic Survey, Right-of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.				

16. Staff Experience:

Rachel Waldroup, P.L.S. (CONT.)	
01/18 – 6/19	H.004100 – I-10 (LA 415 to Essen Lane on I-10 and I-12), East and West Baton Rouge Parishes, LA – CADD technician providing topographic surveying services. The project spans from the LSU lakes to Essen Lane on I-10 and I-12.
11/18 – 04/19	LA 327 Spur: Staring Lane Ext. Route LA 327-S, East Baton Rouge Parish, LA – CADD Technician providing topographic survey for this project in East Baton Rouge Parish, between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.



16. Staff Experience:

Firm employed by				
Name	Tommy Lake	Years of relevant experience with this employer	6	
Title	Party Chief	Years of relevant experience with other employer(s)	30	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		Party Chief		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/17-10/18	H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, LA – Party Chief for comprehensive topographic surveying services for the Belle Chasse Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.			
02/17-Ongoing	H.004273.5 I-49 Connector, Lafayette Parish, LA – Party chief responsible for providing topographic surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.			
11/18-Ongoing	H.011684.5- LA 327 Spur: Staring Lane Extension, East Baton Rouge Parish, LA – Party chief for comprehensive topographic surveying services and developing a drainage map for the Staring Lane Extension project for LADOTD. Included in this work was a survey performed utilizing traditional methods and terrestrial laser scanning of roadway surfaces			
06-21-Ongoing	H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II (40 Structures), Districts 04 and 05, LA – Party Chief for right of way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing right of way location determination and right of way mapping. The right of way maps were performed in accordance with state regulations and LA DOTD requirements.			
06/20-Ongoing	H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures), Districts 04, 05, 08 and 58, LA – Party Chief for topographic surveying of 22 bridges in Louisiana.			
01/23 – 02/23	LA1 Intracoastal Bridge Replacement, Port Allen, LA – Party Chief for monitoring survey. Reestablish control from original contractor and created new control to monitor four bents on the LA1 Bridge. Established baseline for future monitoring of bridge by shooting elevations of footings and top of bent caps. Forte and Tablada was retained by LA DOTD to perform a bridge monitoring survey. Settlement occurred on several of the bridge piers and the department would like to have a more comprehensive understanding of the settlement and moving issues.			
05/21 – 12/22	H.003931 Calcasieu River Bridge (HBI), Calcasieu Parish, LA – Party Chief for this project providing topographic surveying services. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed laser scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors.			
4/21 - 6-21	H.014628 LA 397 Turn Lanes @ Rice Mill, Calcasieu Parish, LA – Party Chief for this project providing a topographic survey, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.			
1/20 - 10/20	H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415, West Baton Rouge & Iberville Parishes, LA – Party Chief for complete topographic survey, approximately 18.3 miles, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.			

16. Staff Experience:

Tommy Lake (CONT.)	
08/19-01/20	H.011670-I-10/Loyola Interchange Improvements, Kenner, LA – Party chief for Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.
11/19-12/20	H.012083 -Calcasieu River Bridge Investigation, Calcasieu Parish, LA – Party Chief for services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, mobile Lidar was done for future planning.
01/18- 6/19	H.004100- I-10 (LA 415 to Essen Lane on I-10 and I-12), East and West Baton Rouge Parishes, LA – Party Chief for topographic survey of the work between LSU lakes and Essen Lane.
10/18-02/19	H.012343- Sunshine Bridge Damage Survey, St. James Parish, LA – Party Chief responsible for establishing control on and near the Sunshine Bridge to use survey and laser scanning methods to monitor the damage on the bridge. This project included utilizing LiDAR data.
06/19-09/19	H.000303.6- Danziger Bridge Repair, Orleans Parish, LA – Party Chief for Topographic and Monitoring survey and laser scanning of Danziger bridge. This survey is necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge. This project included utilizing LiDAR data.
11/16-01/18	East Baton Rouge Computerized Traffic Signals-Phase VB, East Baton Rouge Parish, LA – Party Chief for survey and mapping of eight intersections in Baton Rouge for the construction and installation of new computerized traffic synchronization equipment and components.
02/17-03/18	H.010753.5- US 90 / I-310 Interchange, St. Charles Parish, LA – Party Chief for topographic surveying and 3-D laser scanning at the intersection of US-90 and I-310 in St. Charles Parish.
05/17-10/17	H.013052 -LA 442 Tangipahoa River Bridge Replacement, Tangipahoa Parish, LA – Party Chief to provide topographic surveying for the LA 442 bridge over the Tangipahoa River. The survey included numerous cross-section surveys upstream and downstream of the bridge, as well as the along the bridge fascia.



16. Staff Experience:

Firm employed by				
Name	John Tullier	Years of relevant experience with this employer	2	
Title	Party Chief	Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization		Education		
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		CAD Technician		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/19-08/19	H.004791 LA 232 Belle Chasse Bridge, Belle Chasse, LA – Party Chief for the topographic survey and laser scanning. This project was additional work for the design of a bridge near the Belle Chasse Tunnel. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.			
06/20-12/20	4400017597 DOTD Rural Bridge Replacement, Statewide, LA – Party Chief for the topographic survey. This project was for design of multiple bridge replacements throughout south Louisiana. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.			
01/18-04/20	H.004100 I-10: LA 415 to Essen Lane, East Baton Rouge, LA – Party Chief for the topographic survey and 3D Mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.			
04/20-11/20	H.000688 US 11 Norfolk Southern RR Overpass, St. Tammany Parish, LA – Party Chief for the topographic survey and 3D Mobile laser scanning. This project was for the design of a new US 11 overpass over Norfolk Southern Railroad. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.			
02/20-08/20	H.010652 LA 73: US 61 (Airline) to Essen Lane, East Baton Rouge Parish, LA – Party Chief for the topographic survey and 3D Mobile laser scanning. This project was for the design of improvements to Jefferson Highway from Airline to Essen Lane in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all drainage required along with finished floor elevations of all buildings that fall within the survey limits.			
04/19-08/19	H.005121 LA 1 / LA 415 Connector, West Baton Rouge Parish, LA – Party Chief for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of a new route connecting LA 1 to La 415, over the Intercoastal Waterway in West Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.			
05/18-04/19	H.012591 I-10 Paris Road Lake Pontchartrain, New Orleans, LA – Party Chief for the topographic survey, 3D Mobile laser scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.			



16. Staff Experience:

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



16. Staff Experience:

Firm employed by				
Name	Nicholas Babin	Years of relevant experience with this employer	6.5	
Title	Party Chief	Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		UAV Technician		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23-08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Surveyor for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
02/17-Ongoing	LA DOTD H.004273.5 -I-49 Connector, Lafayette Parish, LA – Technician for laser scanning services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.			
04/21-Ongoing	Florida Boulevard Corridor Study, Baton Rouge, LA – Party chief to survey the Florida Blvd corridor including any adjacent roads and drainage.			
10/18-09/21	Louisiana Watershed Initiative, Region 7, LA – Survey Party Chief in responsible charge of field crew performing terrestrial laser scanning of bridges over creeks and rivers, collecting topographic data, performing hydrographic surveys etc. to model streamflow capacities.			
10/18-09/21	Livingston Parish GIS – Drainage, Livingston Parish, LA – Survey Party Chief in responsible charge, locating drain manholes utilizing GPS to populate parish wide GIS mapping, measuring culvert size and elevation and direction of flow.			
2018-2021	East Baton Rouge Parish Stormwater Management, East Baton Rouge Parish, LA – Survey Party Chief in responsible charge collecting data running cross sections in canals, locating drainage structures, culvert sizes and elevations to determine flood reduction planning.			
04/20-11/20	H.014628 LA 397 Turn Lanes @ Rice Mill, Calcasieu Parish, LA – Party Chief for this project providing a topographic survey, in accordance with LA DOTD Location and Survey, for the design of turn lanes in Calcasieu Parish.			
02/22-09/22	Brown Road Improvements, Livingston Parish, LA – Survey Party Chief in responsible charge of survey crew performing topographical survey for Livingston Parish for design of road widening and drainage improvements on Brown Road including establishment of primary project horizontal and vertical control, benchmark levels, locating topographic features, x-sections for elevation information.			
11/19-12/20	Calcasieu River Bridge, Calcasieu Parish, LA – Party chief setting project control, running, establishing project control levels, party chief in responsible charge of field crew collecting topographic survey data necessary for design of I-10 bridge over the Calcasieu River.			
01/18-05/19	LA DOTD H.004100- I-10 (LA 415 to Essen Lane on I-10 and I-12), East and West Baton Rouge Parishes, LA – Technician for topographic survey of the work between LSU lakes and Essen Lane.			
05/18-11/18	H.011670-I-10/Loyola Interchange Improvements, Kenner, LA – Technician for Topographic Survey, Right- of-Way Survey, and Drainage Survey. The project stretches from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd.			

16. Staff Experience:

Firm employed by				
Name	Gavin Lake	Years of relevant experience with this employer	2	
Title	Party Chief	Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization	Education			
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities	Party Chief			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23-08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Surveyor for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
06/20-Ongoing	H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures), Districts 04, 05, 08 and 58, LA – Party Chief for topographic surveying of 22 bridges in Louisiana.			
04/21-Ongoing	LADOTD, Florida Boulevard Corridor - I-110 to Airline Hwy, Baton Rouge, LA – Party Chief of a topographic survey the Florida Blvd corridor from I-110 to Airline Hwy in Baton Rouge including any adjacent roads and drainage.			
06-21-Ongoing	H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II (20 Structures), Districts 04 and 05, LA – Party Chief for right of way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing right of way location determination and right of way mapping. The right of way maps were performed in accordance with state regulations and LA DOTD requirements.			
03/20-12/20	LADOTD, Calcasieu River Bridge Investigation, Calcasieu Parish, LA – Party Chief setting project control, running, establishing project control levels, party chief in responsible charge of field crew collecting topographic survey data necessary for design of I-10 bridge over the Calcasieu River.			
03/20-07/20	East Baton Rouge Stormwater Management Phase II, East Baton Rouge Parish, LA – Survey Technician on field crew collecting data, running cross sections in canals, locating drainage structures, culvert sizes and elevations to determine flood reduction planning.			
06/20-11/20	East Baton Rouge Stormwater Management Phase IV, East Baton Rouge Parish, LA – Survey Technician on field crew collecting data, running cross sections in canals, locating drainage structures, culvert sizes and elevations to determine flood reduction planning.			



16. Staff Experience:

Firm employed by				
Name	Brent M. Campbell	Years of relevant experience with this employer	11	
Title	Senior AMM Technician	Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization	BS / 2013 / Construction Management			
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities	Laser Scanning Technician			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23-08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Technician for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
05/22-10/22	LA DOTD Underwater Acoustic Imaging, Statewide, LA – Responsible for aiding in the field acquisition of multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges locations ranged from Inner Harbor Navigation Canal in New Orleans to the Mississippi River in Baton Rouge. Data was then extracted from the multibeam data to provide depths at predetermined locations along the bridge and immediate area.			
05/17-10/18	H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, LA – Responsible for laser scanning for the Belle Chasse Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.			
03/13-07/15	H.004698 Almonaster Avenue Lift Bridge, Orleans Parish, LA – Responsible for laser scanning of Almonaster lift bridge and determination of various bridge geometrics and counterweight volume based on scan data. Provided 2-D plan geometry and elevations, as well as coded survey data. Used scanning to perform rail survey for inaccessible areas.			
05-/17-10/18	H.004791.5-Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, LA – Responsible for laser scanning for the Belle Chasse Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.			
8/14-Ongoing	H.004273.5 -I-49 Connector, Lafayette Parish, LA – Responsible for laser scanning services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.			
02/21-Ongoing	Florida Boulevard Corridor Study, Baton Rouge, LA – Responsible for laser scanning the Florida Blvd corridor including any adjacent roads and drainage.			
1/20 - 10/20	H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415, West Baton Rouge & Iberville Parishes, LA – AMM Technician for complete topographic survey, approximately 18.3 miles, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.			
10/19-10/20	H.012485.1- Inspection of Metal Culverts, Statewide, LA – Laser scanning technician to provide inspections and data acquisition for approximately 230 culvert locations statewide. Culvert measurements were acquired with a mixture of 3-D laser scanning, sonar, and LIDAR.			

16. Staff Experience:

Brent M. Campbell (CONT.)	
12/19 – 9/20	H.011970- Bayou Terrebonne Bridges, Terrebonne Parish, LA – Responsible for laser scanning the Bayou Terrebonne bridge along with the entire intersection and adjacent roads.
11/19 – 12/20	H.012083- Calcasieu River Bridge Investigation, Calcasieu Parish, LA – Laser scanning and project technician to provide laser scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, mobile Lidar was done for future planning.
11/18-04/19	LA 327 Spur: Staring Lane Ext. Route LA 327-S, East Baton Rouge Parish, LA – Responsible for laser scanning between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.
05/19-09/19	H.000303.6- Danziger Bridge Rehabilitation, Orleans Parish, LA – Laser scanning and project technician for survey investigation of Danziger Bridge. Included laser scanning and comparison of actual conditions to original plans.
02/17-03/18	H.010753.5 – US 90 / I-310 Interchange, St. Charles Parish, LA – Project Technician responsible for topographic surveying and 3-D laser scanning at the intersection of US90 and I-310 in St. Charles Parish. This project will allow improvements for safety and efficiency. The complete topographic survey includes all utilities with depths and all drainage required along with finish floor elevations of all buildings that fall within the survey limits.
01/13-12/13	H.009933 MacArthur Interchange Project Phase 1B, Orleans Parish, LA – Responsible for laser scanning general areas in support of topographical survey including location and elevation surveys, for redundancy and volume.
01/13-03/13	H.009250 I-10 (Highland to LA 73), East Baton Rouge and Ascension Parishes, LA – Responsible for laser scanning of several bridges overpassing I-10, and extracting/coding survey coordinates and alignments. Also determined minimum horizontal and vertical clearances.


16. Staff Experience:

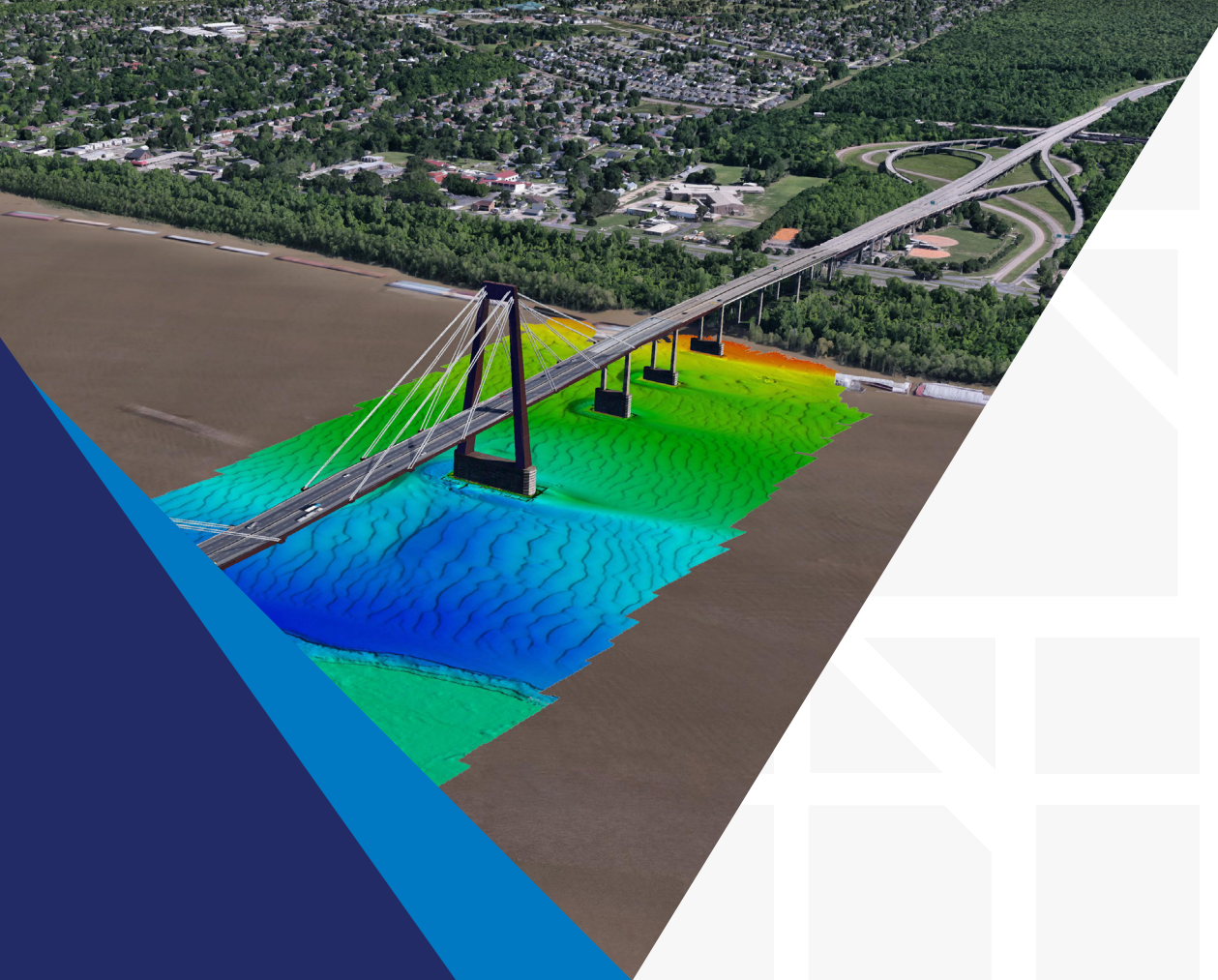
Firm employed by				
Name	Trenton Iglehart	Years of relevant experience with this employer	.5	
Title	CAD Technician	Years of relevant experience with other employer(s)	23	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date				
Year registered		Discipline		
Contract role(s) / brief description of responsibilities		CAD Technician		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23-08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Technician for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.			
09/22-12/22	4400019715 LADOTD IDIQ for Hydrographic Survey (performed as an employee at NTB Associates) - Survey Technician for hydrographic survey task orders on the Mississippi River (I-10 at Baton Rouge, Sunshine, Gramercy, Huey Long, and Crescent City Connection), Atchafalaya River (Krotz Springs EB and WB), Pearl River, and Pass Manchac at I-55.			
06/15-01/17	IDIQ A&E Contract for Survey Engineering, Mapping, and Related Services, Vicksburg & Memphis COE Districts – Contract #W912EE-14-D-0002. Services under this contract included Topographic, Hydrographic Surveys, I&E Monitoring Surveys, Geodetic Control Surveys, and Boundary Surveys.			
01/15-12/17	#W912EE-14-D-0002, Task Order 37, Big Sunflower River Sediment Reduction Structure Surveys, Sunflower and Tallahatchie Counties, MS - Mr. Iglehart’s role during this project was engineering tech/data processor. His assignments included the review, editing, data compilation, and then submitting the project to the Vicksburg District in the required formats. The project included topographic and hydrographic surveys at 26 Sediment Reduction Structures located within the Big Sunflower River Basin. Detailed Topographic and Hydrographic surveys were performed at each site. Static GPS control monuments were established at each site which were then used to layout approximately 3 ½ miles of baselines control. Topo and Hydro Surveys were performed at 373 cross sections locations			
01/15-12/17	MS River Levee Item 540L, Vicksburg District COE, Contract #W912EE-14-D-0002, Task Order 36, Washington County, MS - Mr. Iglehart’s role during this project was engineering tech/data processor. His assignments included the review, editing, data compilation, and then submitting the project to the Vicksburg District in the required formats. Levee baseline monuments were recovered and verified along a one mile reach of the left bank levee system. This baseline was then used to establish and observe the topographic cross sections and locate 23 CPT locations. The project was performed using GPS and conventional survey equipment. 3rd order level runs were performed to establish elevations along the monumented project baseline. All of the field book observations and digital data records associated with this project were review, edited and processed by Mr. Iglehart.			
01/15-12/17	I&E Monitoring Surveys – Vicksburg District COE Contract #W912EE-14-D-0002 Task Orders 32, 33 and 35, Greenwood MS, Jonesville, LA, and Leflore County, MS - Mr. Iglehart’s role associated with the 3 task orders noted above was to review and compile the results of the Inspection and Evaluation (I&E) and Hydrographic Surveys performed by our survey crews at 8 flood control structures located along rivers and tributaries within the confines of the Vicksburg COE geographic boundaries. This effort included showing the results of our surveys on spread sheets that showed the results of previous monitoring surveys. Any and all notable differences in elevation and/or horizontal alignment at these structures were reported immediately to the COR.			

16. Staff Experience:

Trenton Iglehart (CONT.)	
01/15-12/17	Atchafalaya River Horseshoe Reach Channel & Disposal Areas, IDT Contract for Surveying Support Services-within the Vicksburg District W912-EE-05-D-0003 Task Order 23 - This project highlights our knowledge of multiple Corps of Engineers Districts, and our ability to satisfy the requirements of Districts outside the primary contract locale. Construction related surveys were performed along the Atchafalaya River across both the channel and disposal areas encompassing nearly 10,000 acres of area. The survey details the oxbow characteristics of the river which requires ongoing dredging efforts to maintain. Cross sections were obtained at 300 foot intervals through Disposal areas A,B,C,D, and E. Cross sections were obtained along the channel (hydrographic and topographic) at 500 foot intervals. This work was performed in support of ongoing dredging operations in the area. A digital terrain model (Inroads DTM) was created for the overall site. A plan map was created at 1:2000 scale with one foot contours and all shoreline features. The mapping was performed in Microstation in accordance with Vicksburg District's CADD GIS format standards.
01/98-12/13	Vicksburg CORPS of Engineers, Vicksburg, MS – Various river revetment and flood structure surveys Primary tasks – Field topographic and hydrographic surveys, data processing and mapping of all survey data.
01/98-12/13	New Orleans CORPS of Engineers – Various canal and flood structure surveys, New Orleans, LA – Primary tasks – Field topographic and hydrographic surveys, data processing and mapping of all survey data.
01/98-12/13	New Orleans CORPS of Engineers – Various canal and flood structure surveys, New Orleans, LA – Primary tasks – Field topographic and hydrographic surveys, data processing and mapping of all survey data.
01/98-12/13	Department of Natural Resources – Lost Lake Wetland Restoration Project, LA – Primary tasks – Data processing and mapping of all hydrographic and magnetometer survey data.
01/12-12/12	Massman Construction/ N.O. COE – IHNC Lake Borgne Surge Protection Barrier, LA – Primary tasks – Field hydrographic surveys for closure structures, floodgate seals and rock placement, and data processing and mapping of all survey data.
01/11-12/11	Rhodia Chemicals, Baton Rouge, LA – Dock surveys for dock rehabilitation and rock placement for scour protection. Primary tasks – Field topographic and hydrographic surveys, data processing and mapping of all survey data.
01/05-12/11	Spectra Energy Corp., Statewide, LA – River crossing monitor surveys Including: The Mississippi River, Atchafalaya River, Calcasieu River, Brazos River, Neches River, Breton Sound, Tiger Pass and Grand Pass. Primary tasks included Field topographic and hydrographic surveys, data processing and mapping of all topographic, hydrographic and magnetometer survey data.
01/09-01/11	IDT Contract – A&E Contract for Surveying Support Services for the Vicksburg District COE, Contract #W912EE-07-D-0004 - 26 task orders Survey work under this contract included NLD profile/topo surveys along 1750 miles of the federal levee systems within the confines of Vicksburg District. Services under this contract included Topographic, Hydrographic Surveys, I&E Monitoring Surveys, Geodetic Control Surveys, and Boundary Surveys.
01/06-01/09	IDT Contract – A&E Contract for Surveying Support Services for the Vicksburg District COE, Contract #W912EE-05-D-0003 , 32 task orders One of the major projects under this contract was the Mississippi River Height Modernization. Hydrographic surveys included Mississippi River Comprehensive Survey and an emergency survey along the Pearl River. Work under this contract also included construction related surveys for the Vicksburg Vidalia Area Office.

16. Staff Experience:

Firm employed by			
Name	Christian Haynes	Years of relevant experience with this employer	.25
Title	CAD Technician	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization			
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities		CAD Technician	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/13-7/14	H.009300 Hooper Road Widening, East Baton Rouge Parish, LA – Primary tasks- Instrument Technician responsible for equipment operation including RTK, Total Stations, Digital levels, and Laser scanners to obtain survey data.		
09/13-09/14	H.010433 LA 308 Curve Realign and Shoulders, Iberville Parish, LA – Primary tasks- Instrument Technician responsible for equipment operation including RTK, Total Stations, Digital levels, and Laser scanners to obtain survey data.		
10/13-5/14	H.004932 Interchange for US 90 and LA 318, St. Mary Parish, LA – Primary tasks- Instrument Technician responsible for equipment operation including RTK, Total Stations, Digital levels, and Laser scanners to obtain survey data.		
01/98-12/13	H.011298.5 Captain Cade to Amabassador Caffery Frontage, Broussard, LA – Primary tasks- Instrument Technician responsible for equipment operation including RTK, Total Stations, Digital levels, and Laser scanners to obtain survey data.		
01/12-12/12	H.011224 US 190 Guardrail/Rutting Rep. (Phase 1), Pointe Coupee Parish, LA – Primary tasks- Instrument Technician responsible for equipment operation including RTK, Total Stations, Digital levels, and Laser scanners to obtain survey data.		

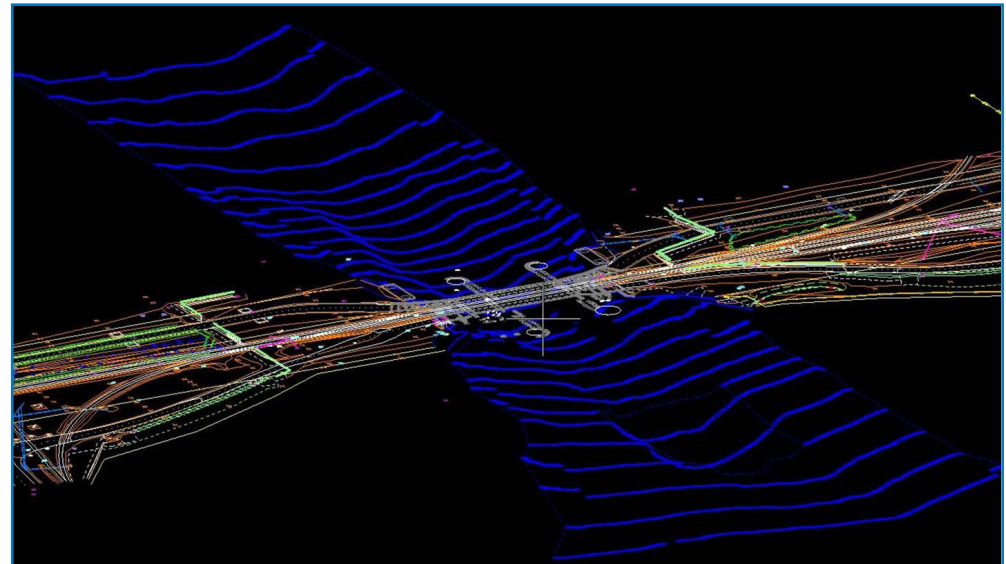
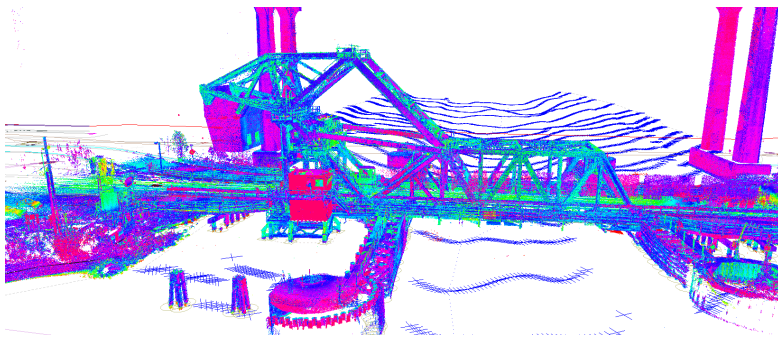


SECTION 17

17. Firm Experience:

Firm name	FORTE & TABLADA Forte and Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Survey, ROW
Project name	Almonaster Avenue Lift Bridge		Firm responsibility (prime or sub?)	Sub
Project number	S.P. No. H.004698	Owner's name	LADOTD c/o Volkert & Associates	
Project location	Orleans Parish, LA	Owner's Project Manager	Jan Evans, P.E.	
Owner's address, phone, email		7967 Office Park Boulevard, Baton Rouge, LA 70809, 225-218-9440, jevans@volkert.com		
Services commenced by this firm (mm/yy)	02/13	Total consultant contract cost (\$1,000's)		\$ 185
Services completed by this firm (mm/yy)	10/13	Cost of consultant services provided by this firm (\$1,000's)		\$ 147.0

Forte and Tablada, Inc. was responsible for performing complete topographic and property surveys, developing a drainage map, and establishing existing right-of-way for North line of I-10, CSX Railroad property and Almonaster, establishing elevations to develop a Digital Terrain Model with the widths matching the limits of the topographic survey, and providing a drainage map. The entire bridge super and sub structures were scanned to locate every pile. Bridge clearances were found, extracting two-dimensional line work for the superstructure. A horizontal plan of two-dimensional site plan for the bridge and a volume calculation for the counterweight was also created. As there was no access to the adjacent rail property, Forte and Tablada, Inc.'s Advanced Measurements was able to use three-dimensional laser scanning to survey the area without permits or trespassing on railroad right of way. This project demonstrates Forte & Tablada's topographic survey, property survey, ROW maps and tile take off experience for transportation projects. This project displays Forte and Tablada's ability to use advanced technology such as lidar scanning to conduct topographic surveys on bridge projects for LA DOTD.

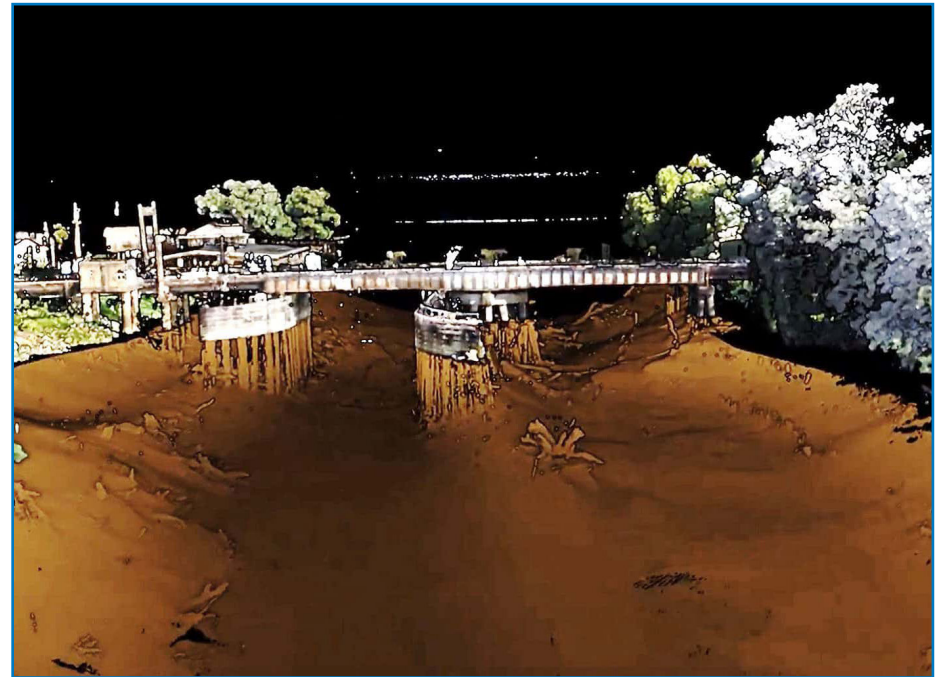


Project Team:
Joey Coco, Jr., P.E., Principal-in-Charge
 Ross Wilson, P.L.S.
 Gerald Middleton, P.L.S.
 Brent Campbell

17. Firm Experience:

Firm name	FORTE & TABLADA Forte and Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Survey
Project name	Amite River Basin Model-Hydrographic Survey		Firm responsibility (prime or sub?)	Sub
Project number	4400008293	Owner's name	LADOTD	
Project location	Livingston Parish, LA	Owner's Project Manager	Edward Knight, P.E.	
Owner's address, phone, email		1201 Capital Access Road, Baton Rouge, LA 70804, 225-379-3007, edward.knight@la.gov		
Services commenced by this firm (mm/yy)	06/17	Total consultant contract cost (\$1,000's)		\$ 349
Services completed by this firm (mm/yy)	02/19	Cost of consultant services provided by this firm (\$1,000's)		\$ 349

Forte and Tablada, Inc. worked with LA DOTD and Dewberry to provide hydrographic surveying of the Amite River and Comite River. Task orders included typical cross-sections of these rivers, as well as detailed 3-D bathymetric data collected with sonar equipment. Forte and Tablada also provided ground control for LiDAR of the Amite River Basin. Notably, Forte and Tablada provided a high-resolution survey of the Amite River Diversion Weir utilizing a variety of techniques including multibeam sonar and traditional survey methods. The largest challenge for this project was the varying water depths of the Amite and Comite River, which prevented the use of a single type of data collection system. Forte and Tablada was able to overcome this challenge through the multiple types of data collection systems within its inventory. A wide swath multi-beam sonar unit was used to collect data remotely into shallow water areas, single-beam sonar equipment was used in to confirm the results of the multi-beam areas as well as collect bathymetry data in water less than 2 feet deep. LiDAR laser scanners were used on bridge structures to give a seamless representation of the underwater conditions as well as above water conditions for a precise bridge opening area. The image above depicts the seamless merging of these two data sets collected utilizing two different types of data collection systems.



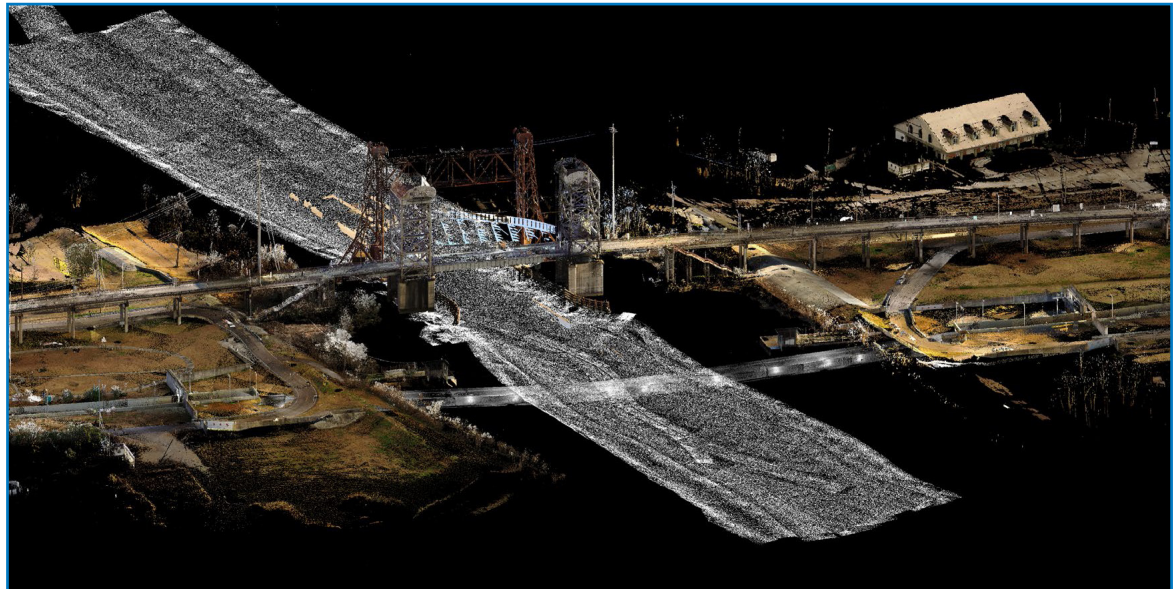
Project Team:
Joey Coco, Jr., P.E., Principal-in-Charge
 Brent Campbell

17. Firm Experience:

Firm name	FORTE & TABLADA Forte and Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Survey
Project name	Belle Chase Bridge and Tunnel Replacement		Firm responsibility (prime or sub?)	Prime
Project number	S.P. No. H.004791.5	Owner's name	LADOTD	
Project location	Plaquemines Parish, LA	Owner's Project Manager	Stanley Ard	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1292, Stanley.Ard@la.gov		
Services commenced by this firm (mm/yy)	05/17	Total consultant contract cost (\$1,000's)	\$ 401.7	
Services completed by this firm (mm/yy)	10/18	Cost of consultant services provided by this firm (\$1,000's)	\$ 249.6	

Forte and Tablada provided comprehensive topographic surveying services for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.

The primary challenge for this project was to complete the topographic survey, while not shutting down travel on the bridge nor tunnel. In order to perform a traditional topographic survey, the feature being measured must be in physical reach of the equipment operator. Forte and Tablada was able to overcome this challenge through the use of remote sensing technology. Remote sense was used in the form of LiDAR for the bridge and overpass, and multi-beam sonar for the water bottom and top of tunnel. A robot was fabricated by Forte and Tablada staff to ride the bridge rail with the LiDAR scanner in order to avoid lane closures and improve the safety of equipment operators. This project displays Forte and Tablada's ability to use advanced technology such as lidar scanning and multibeam hydrographic equipment to conduct topographic surveys on bridge projects for LA DOTD.



Project Team:
Joey Coco, P.E., Principal-In-Charge
 Ross Wilson, P.L.S.
 Jerry Middleton, Jr., P.L.S.
 Brent Campbell
 Tommy Lake

17. Firm Experience:

Firm name	FORTE & TABLADA Forte and Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Survey
Project name	LA DOTD Underwater Acoustic Imaging – Mississippi River Bridges		Firm responsibility (prime or sub?)	Sub
Project number	H.009730.5	Owner’s name	LADOTD c/o Moffatt & Nichol	
Project location	Statewide, LA	Owner’s Project Manager	Jonathan Hird	
Owner’s address, phone, email		301 Main St., Suite 800, Baton Rouge, LA 70801		
Services commenced by this firm (mm/yy)	08/22	Total consultant contract cost (\$1,000’s)	\$ 171	
Services completed by this firm (mm/yy)	09/22	Cost of consultant services provided by this firm (\$1,000’s)	\$ 171	

Forte and Tablada worked with LADOTD and Moffatt and Nichol to provide Hydrographic Surveys for the following Mississippi River Bridges:

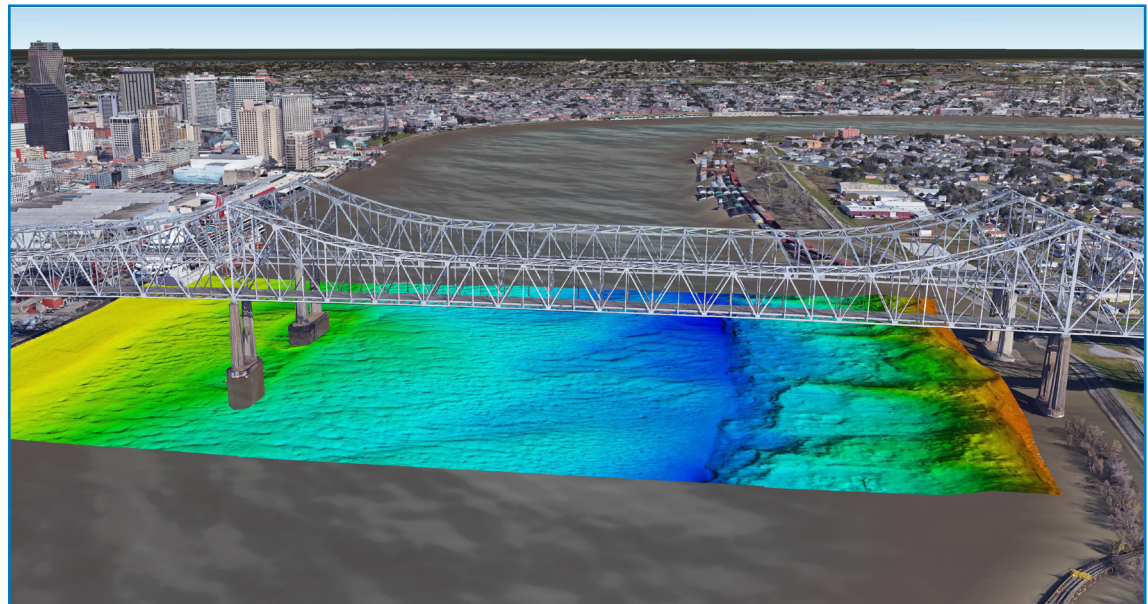
- Rigolets Bridge,
- Crescent City Connection Bridges (East and Westbound)
- Vicksburg Bridge

The purpose of the survey is to document bridge scour, bridge piers, and other water bottom features below the waterline. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface. Limited traditional survey methods were used to collect ground data along the bank.

North				Location	South			
200 ft	100 ft	50 ft	North Fascia		South Fascia	50 ft	100 ft	200 ft
-	-	-	-	W. Shoreline	-	-	-	-
-22.0	-22.8	-23.4	-23.7	Mid Span	-25.8	-26.8	-27.2	-30.3
-31.5	-31.4	-33.5	-59.1	Pier 4	-36.4	-41.2	-37.9	-34.0
-53.8	-57.4	-60.1	-60.9	Mid Span	-55.9	-55.4	-55.3	-53.3
-79.1	-76.5	-87.7	-92.7	Pier 3	-67.6	-69.8	-76.3	-78.5
-88.6	-85.7	-89.9	-91.6	Midspan	-93.0	-90.8	-88.7	-87.6
-16.8	-9.5	-11.5	-16.5	Pier 2	-16.1	-14.8	-12.4	-

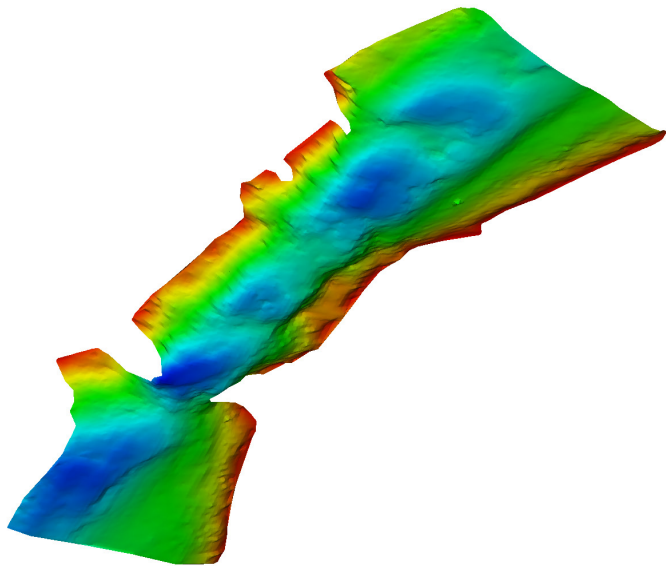
Table 1.0 – Channel Soundings From Water Surface

Project Team:
Joey Coco, P.E., Principal-In-Charge
 Brad Holleman, P.E., P.L.S.
 Brent Campbell

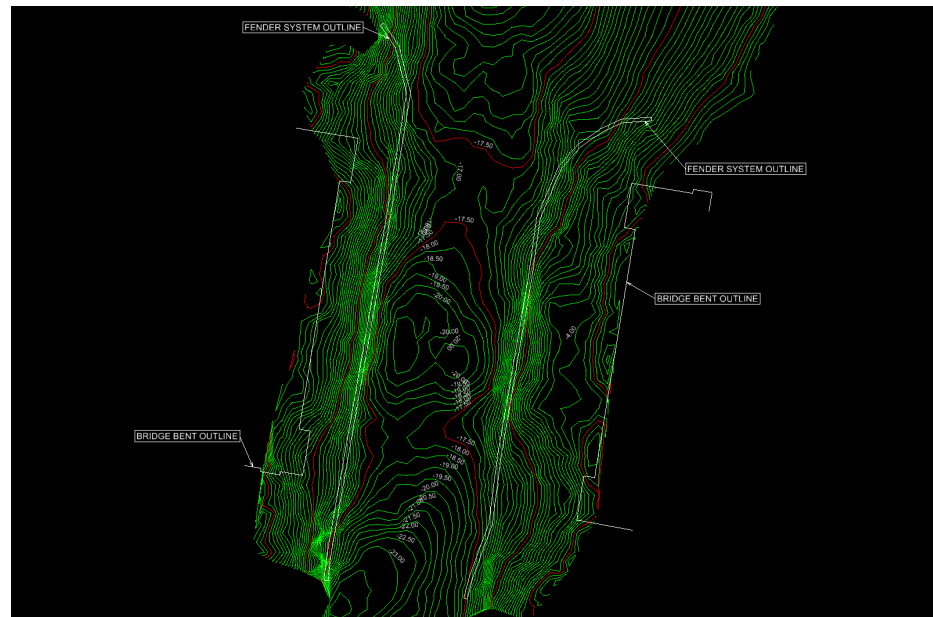


17. Firm Experience:

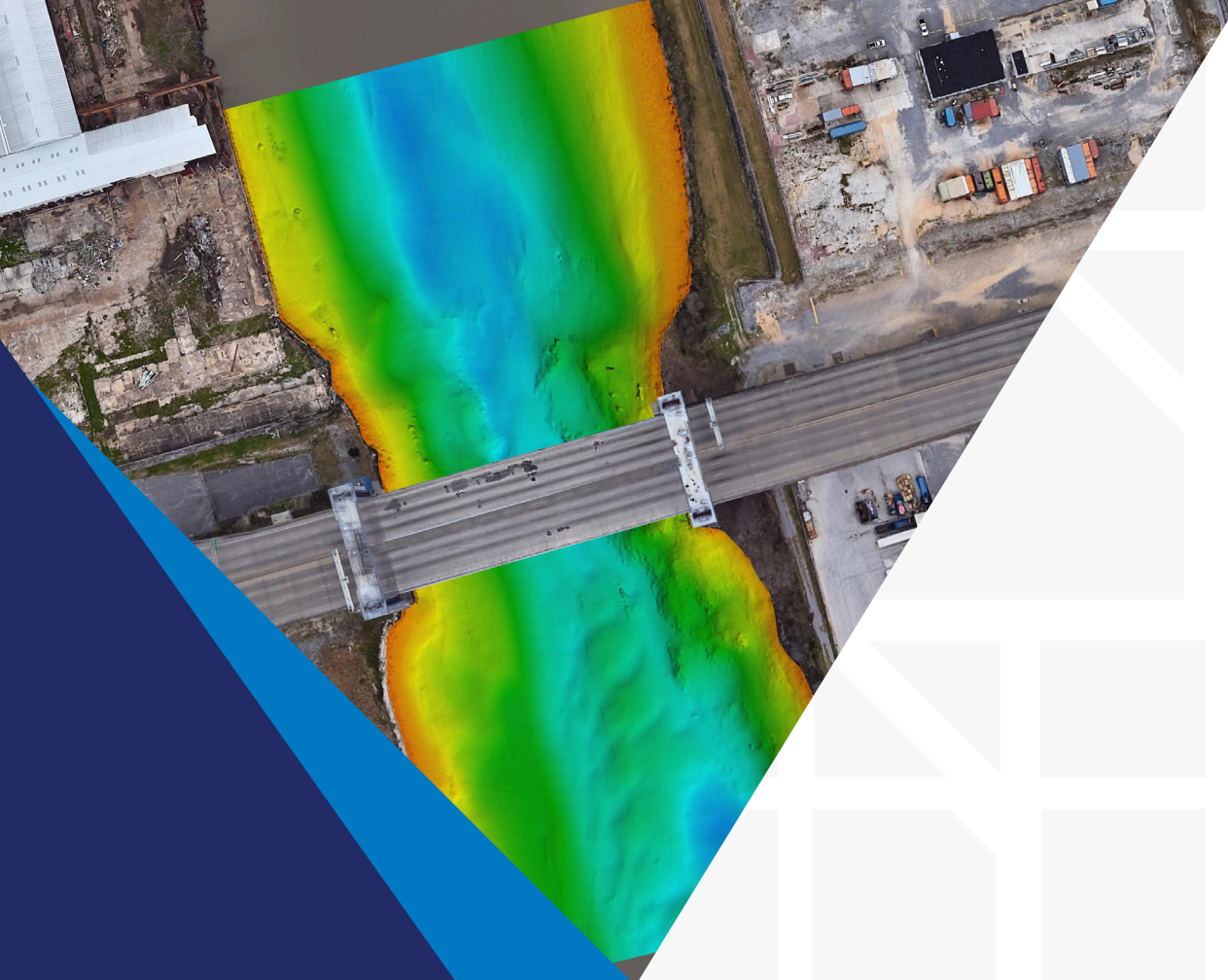
Firm name	FORTE & TABLADA Forte and Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Survey
Project name	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey		Firm responsibility (prime or sub?)	Sub
Project number	H.009730.5	Owner's name	Moffatt & Nichol	
Project location	Iberia Parish, LA	Owner's Project Manager	Jonathan Hird	
Owner's address, phone, email		301 Main St., Suite 800, Baton Rouge, LA 70801		
Services commenced by this firm (mm/yy)	06/23	Total consultant contract cost (\$1,000's)		\$ 171
Services completed by this firm (mm/yy)	08/23	Cost of consultant services provided by this firm (\$1,000's)		\$ 171



Forte and Tablada conducted a hydrographic survey as a subconsultant to Moffatt & Nichol to capture the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface. Limited traditional survey methods were used to collect ground data along the bank and around the canal.



Project Team:
Joey Coco, P.E., Principal-In-Charge
 Brad Holleman, P.E., P.L.S.
 Brent Campbell
 Gavin Lake
 Nicholas Babin
 Tenton Inglehart



SECTION 18

18. Approach and Methodology:

Approach and Methodology for Typical Hydrographic Survey Task Orders

Forte and Tablada has specified five stages to approach the execution of a typical hydrographic survey task order for this IDIQ contract; Contracting and Planning, Field Operations, Office Operations, Quality Control, and Delivery.

Contracting and Planning

Forte and Tablada has experience in the LA DOTD process of contracting individual task orders under an IDIQ contract. A system of responsibilities has been established to ensure the timely turnaround of the survey man-hour estimate, acceptance letter, draft contract concurrence, NOTOE review, and project setup. Planning and scheduling the task order is the first step prior to commencement of the field operations. Scheduling is an important task for this IDIQ contract therefore an entire section on Scheduling is included below. Planning is the next step in our methodology. Forte and Tablada operates with a focus on safety, therefore, each task order will be planned for minimum crew size, type of survey vessel needed, weather conditions, water conditions, and boat launch location.

Field Operations

Field operations for each task order will start with the recovery of project baselines and temporary benchmarks (TBM). Each survey will be compared to historical data, therefore, the project's TBM will be recovered, photographed, and constrained for all hydrographic survey operations. The top of water elevation will be observed prior to commencement of the hydrographic data collection. Prior to data collection along the predetermined range lines, Forte and Tablada will perform a bar check on the equipment used from its inventory below.

- Seafloor Systems, Inc Sonarmite Echo Sounder 200 kHz with pole mounted transducer (Single-Beam)
- Bathycat remote control vessel equipped with Single Beam Echo Sounder 700 kHz (Single-Beam)
- Seafloor Systems, Inc. Hydrolite Plus Dual Frequency Echo Sounder 30/200 kHz with pole mounted transducer (Single-Beam)
- For sites not needing a fathometer, a Trimble R12 or Trimble Total Station will be used to determine the elevation of the water bottom.

Office Operations

Upon completion of field operations, Forte and Tablada will review and process the data set collected. The data and photographs of the structures taken will be organized and formatted into the delivery requirements set forth by the Department. The final data sheet for each bridge structure will be tabulated using collected elevation data, formatted, and reviewed for accuracy and completion.

Quality Control

Each report, tabulation datasheet, hydrographic chart, field note, and digital photograph will be reviewed by a Professional Land Surveyor licensed in the State of Louisiana. A Quality Control checklist will be completed for each deliverable to ensure thoroughness and accuracy.

18. Approach and Methodology:

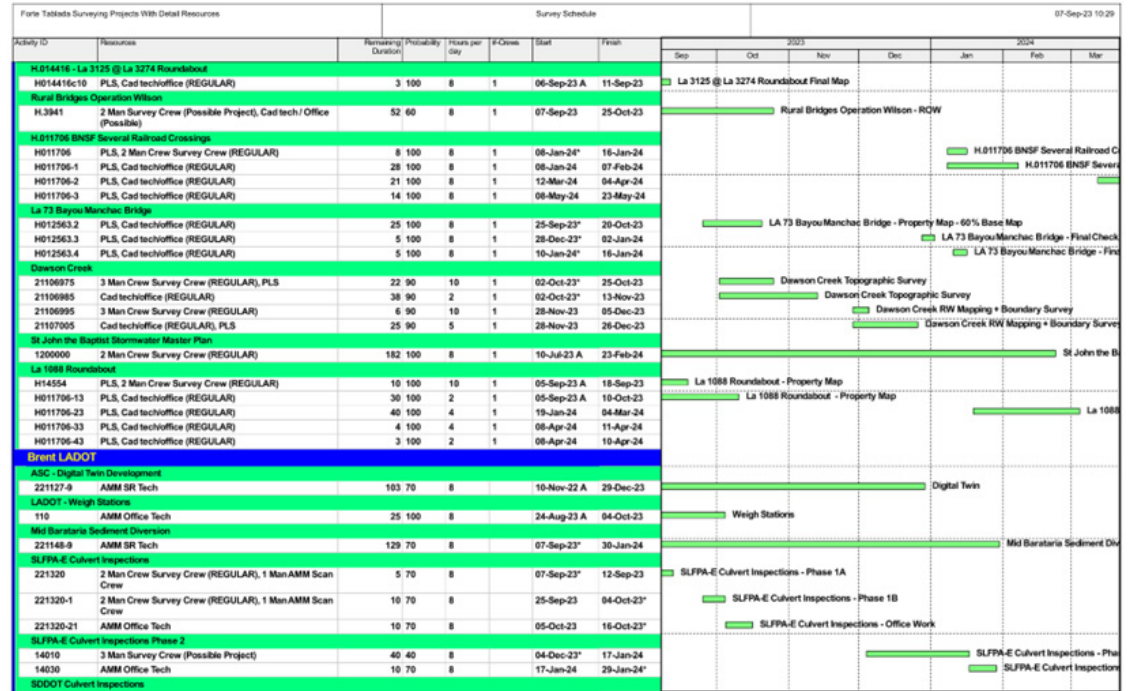


Forte and Tablada commits to start each task order within fifteen (15) days of the scheduled date, complete the deliverables within seven (7) days after the completion of field work and to report any hazardous conditions to the Department within twenty-four (24) hours.

Scheduling

Forte and Tablada understands the importance of delivering a quality product on time for task orders under this contract. The hydrographic surveys used for the bridge scour program are scheduled at a set frequency and simply need to be done within the prescribed fifteen (15) day timeframe. Forte and Tablada is intentional about field schedules, and operates on a dual scheduling system, macro and micro. Our macro, or long term, schedule is input and updated in Primavera 6 scheduling software. The macro field crew schedule is a 1-year look ahead of needed field work updated bi-weekly. If Forte and Tablada is awarded this contract, the task orders will be input into the macro field schedules to ensure a timely completion. Below is a screen clip of Forte and Tablada's macro schedule for DOTD Right of Way Mapping task orders.

Forte and Tablada's micro field work schedule involves a 2 week look ahead, updated weekly. The micro schedule, referred to as "The Board", consists of two large white boards in the field operations area that provides project assignments, equipment assignments, and crew assignments.



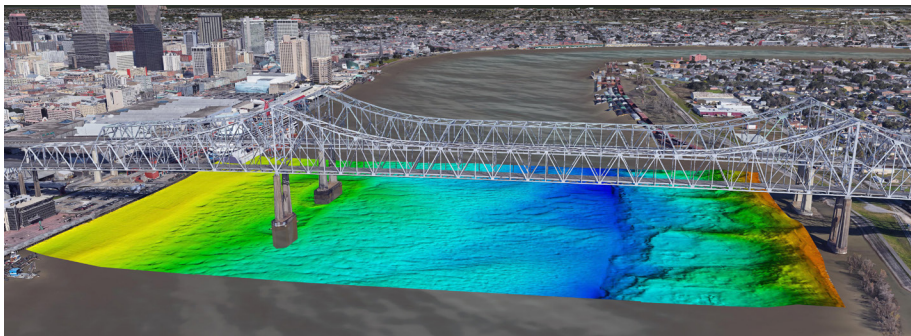
Forte and Tablada's Full Capabilities

While the section above describes expectations on a typical hydrographic surveying contract, Forte and Tablada's commitment to investing in surveying and advanced measurement technology can bring the Department value in added surveying capabilities. Below is a list of technology used by Forte and Tablada on hydrographic and bridge related projects.

18. Approach and Methodology:

R2 Sonic 2022 Multi-beam Echosounder

Forte and Tablada's multi-beam echosounder is an underwater, 3D mapping system that not only collects the bathymetry (elevations of the waterbody bottom) but also objects in the waterway such as bridge piles, debris and/or structures. The single beam echosounder and fathometer described in the previous section take a single depth of water resulting in a single waterbody elevation. The single beam hydrographic survey is collected by traversing the boat in the scoped area creating a line of elevation data. The multi-beam echosounder differs from the single-beam by emitting an array of soundings that generate a 3D map of the waterbody floor. The image below depicts the results of a multibeam survey performed by Forte and Tablada.

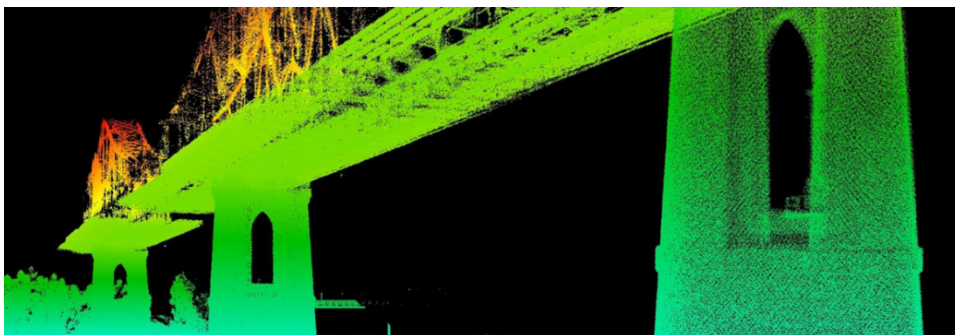


Sound Velocity Profiler – Oceanographic AML-3

Both single-beam and multi-beam echosounders use sound waves traveling through water to measure its depth. The time of a returned sound wave is measured to determine the depth and calculate the water bottom elevation. Slight characteristic changes in the water column, such as turbidity (the amount of suspended solids) and salinity, can affect the velocity of the sound wave. Forte and Tablada's sound velocity profiler is a device that is lowered into the water column prior to the hydrographic survey to log the sound velocity characteristics of the waterbody at varying depths. The water column sound velocity characteristics are applied to the single or multi beam hydrographic survey data to account for changes yielding a more accurate result.

Velodyne VLP-16 Mobile LiDAR Puck

Forte and Tablada has the capability of collecting mobile LiDAR from the survey vessel during a hydrographic survey. The LiDAR sensor is integrated into the multi-beam's inertial measurement unit and GPS system to 3D map objects above water. The below image depicts the results of a mobile LiDAR survey performed from Forte and Tablada's hydrographic survey vessel.



Side Scan

Forte and Tablada will use an Edgetech 6205s2 for dual frequency side-scan to allow for real-time, high-resolution side-scan imagery. It can also perform multibeam and is especially useful for shallow water applications.

18. Approach and Methodology:

Magnetometer

A magnetic locator will be towed through the water column to survey magnetic geological features on or below the water bottom. Forte and Tablada will use the Geometrics 882 Magnetometer. The system is a high-resolution cesium vapor marine magnetometer.

Sub bottom

The sub bottom profiler is a geophysical survey tool, used to identify the thickness of different strata layers below the water bottom. Forte and Tablada will use the EdgeTech 3400 OTS Light Sub-Bottom Profiler. The system is dual frequency capable and operates with Chirp (FM) frequencies ranging from 2-16 kHz.

Unmanned Aerial Vehicles (UAV)

Forte and Tablada has a fleet of 5 UAV's equipped with LiDAR and/or camera sensors to collect data while in flight. Forte and Tablada's FAA certified UAV pilots are able to collect both LiDAR datasets and orthomosaic aerial images that are tied to state plane coordinates.

Terrestrial Laser Scanning


Forte and Tablada has 3 terrestrial laser scanners used by trained staff to 3D map bridges and structures near waterbodies. These terrestrial laser scanners collect data on bridges and structures remotely and accurately. Forte and Tablada has scanned over 1,000 bridges over Louisiana's waterways to date.

Pipe Trekker A-200

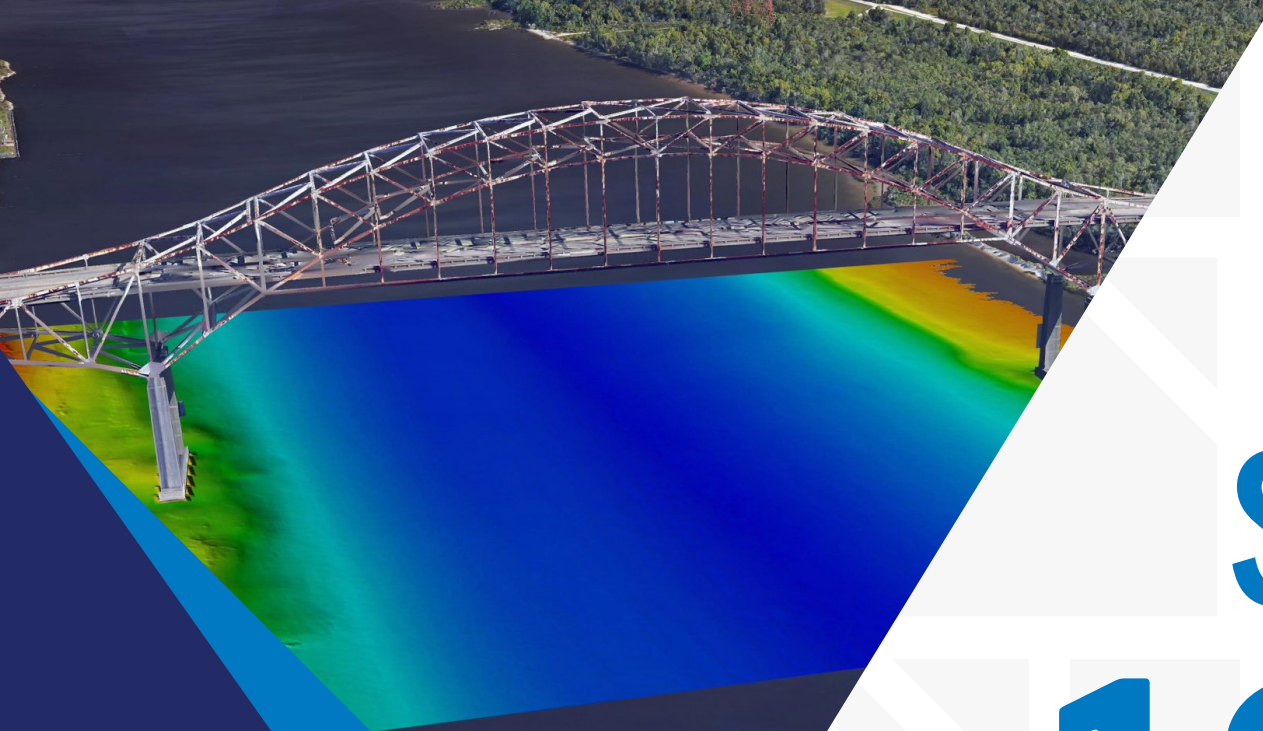
Forte and Tablada's video culvert inspection equipment allows for video documentation in difficult to access culverts and box drains. The pipe crawler is a remote-controlled camera that documents distance and video perspective to assist inspectors and engineers during video review.

The equipment described above is in addition to Forte and Tablada's 10 fully equipment surveying field crews and the software needed to process, review, check, and produce accurate and reliable datasets.




					
13 Survey Trucks	2 Survey Boats + Single Beam Sonar	1 Survey Boat + Multi-Beam Sonar	1 Mobile LiDAR	1 Marsh Master	1 Bathycat
					
10 Trimble Total Stations	13 Trimble GPS Receivers	3 FARO Laser Scanners	4 UAV (Drones)	1 Aerial LiDAR Unit	45 Survey Staff (5 Certified UAV Pilots)

Forte and Tablada recognizes technology is only a tool and a tool is only effective when operated by a skilled craftsman. This is why Forte and Tablada also invests in the training and success of our team members.




SECTIONS 19-23

19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State project number	Project name	Remaining Unpaid Balance**
	Road, Bridge	H.005734.5	LA 447 Corridor Improvements	\$225,999
	Bridge, Survey	H.011965.6	LA 47:IWGO Bridge Rehab	\$53,871
	Bridge	H.009859.5	Load Rating Retainer - Load Rate Statewide Bridges	\$279,504
	Bridge	H.000303.6	Load Rating Retainer - Danziger Bridge Rehab	\$11,442
	Bridge	H.009730.5	Load Rating Retainer - T-1 Steel Weld Inspections	\$10,726
	Bridge	H.015228.5	Load Rating Retainer - LA 70: Sunshine Bridge	\$329
	Bridge	H.009859.5	Load Rate Selected Bridges	\$2,690,660
	Bridge, Survey	H.014261	Off-System Highway Bridge Program, Rapides Parish	\$3,136
	Bridge, Survey	H.014981.5	OSBR Hosston River Road over Kelly Bayou	\$3,194
	Bridge, Survey	H.014989.5	OSBR Neff Lane over Wind Creek	\$3,366
	Bridge, Survey	H.014990.5	OSBR South Tiger Bend Road and East Achord Road Bridges	\$62,300
	Survey	H.011684.5	LA 327 Spur: Staring Lane Extension Route LA 327-S	\$50,279
	Survey	H.014416	LA 3125 at LA 3274 Roundabout	\$16,572
	Survey	H.012563.5	LA 73 Bayou Manchac Bridge	\$18,049
	Survey	H.015047.1	Three Mile Lake Flood LWI (Prime is Michael Baker, Inc.)	\$5,510
	Survey	H.004273.5	I-49 Connector Lafayette (Prime is Stantec)	\$189,178
	Survey	H.014128.5	Florida Boulevard - Airline to Livingston Parish	\$155,370
	Bridge	H.014261	Off-System Highway Bridge Program, Ouachita Parish Bridges	\$23,249
	Survey	H.014554	LA 3025: Coule Scour Repair	\$50
	Survey	H.004100	I-10 ROW Staking	\$106,417

20. Certifications/ Licenses

If the 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. Bradley Scott Holleman

License/Certificate Type - Number Expiration Date
PLS.0005082 09/30/2024

Status: **Active**



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www.lapels.com

Mr. Bradley Scott Holleman

License/Certificate Type - Number Expiration Date
PE.0047165 03/31/2025

Status: **Active**




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

Mr. Gerald William Middleton Jr.

License/Certificate Type - Number Expiration Date
PLS.0004856 09/30/2025

Status: **Active**




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

Ms. Rachel La Pearl Waldroup

License/Certificate Type - Number Expiration Date
PLS.0005277 09/30/2024

Status: **Active**



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(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
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Mr. Russell Joseph Coco Jr.

License/Certificate Type - Number Expiration Date
PE.0031337 09/30/2024

Status: **Active**



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

Mr. Ross Andrew Wilson

License/Certificate Type - Number Expiration Date
PLS.0005148 03/31/2024

Status: **Active**



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Rachel Waldroup
has attended
Traffic Control Technician-LA State Specific
Training Course

3/9/2021 to 3/9/2021
Date

Baton Rouge, LA
Location

Randy Smith
Director of Training

Shawn Traylor
President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.




PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Tommy Lake
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

3/12/2021 to 3/12/2021
Date

Baton Rouge, LA
Location

Randy Smith
Director of Training

Shawn Traylor
President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



Certificate of Training
this certifies that
Tommy Lake
has successfully completed the training
program requirements for
National Flagger Certification Training Course

Awarded on this 13th day of March 2023

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



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

If the advertisement requires submission of a QA/QC plan or Work 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.

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
N/A	N/A	N/A	N/A

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.