PREPARED EXCLUSIVELY FOR:

Louisiana Department of Transportation and Development

Contract No. 4400033158, IDIQ Contract for Wide-Area Lidar and Photogrammetry Support Services - For Statewide Topographic Mapping Program

DIGITAL SUBMITTAL

The Sanborn Map Company, Inc.
305 S. Rockrimmon Blvd., Suite 200
Colorado Springs, CO 80919
www.sanborn.com

September 18, 2025

Mr. Steve LeBlanc, P.L.S.
LaDOTD Surveyor Manager (Remote Sensing)
Louisiana Department of Transportation and Development
1201 Capitol Access Road
Baton Rouge, LA 70802-4438

Re: Contract No. 4400033158, IDIQ Contract for Wide-Area Lidar and Photogrammetry Support Services - For Statewide Topographic Mapping Program

Dear Mr. LeBlanc:

On behalf of The Sanborn Map Company (Sanborn), I am pleased to submit our response to the Louisiana Department of Transportation and Development (DOTD) for Contract No. 4400033158. Sanborn has a strong history of partnering with DOTD on statewide mapping programs, and we are honored to currently provide On-Site Lidar and GIS Support while also having successfully completed the previous IDIQ contract for these same services.

Sanborn understands that the success of DOTD's Statewide Topographic Mapping Program depends on a clear, proven, and practical approach. With wholly owned aircraft, digital cameras, and lidar systems—including the Riegl VQ-1560, Avalanche photon-counting lidar, and Leica TerrainMapper—Sanborn delivers unmatched scheduling flexibility and risk reduction. Importantly, deliverables from our Riegl VQ-1560 are fully compatible with LaDOTD's Riegl VQ-1460, ensuring seamless integration into existing databases and workflows.

Joining our team are trusted sub-consultants that expand DOTD's access to best-in-class expertise. **Tetra Tech** contributes nationally recognized hydrographic and bathymetric capacity, including the Teledyne Optech CZMIL SuperNova system, capable of mapping in challenging coastal and inland environments. **Whiteout Solutions**, a woman-owned small business, streamlines data integration and cloud-based workflows for efficient data access and delivery. **EMC Surveying**, a southeast-based firm, provides licensed surveyors, extensive regional experience, and expertise in **survey control and ground control services**, along with the Riegl VMX mobile Lidar system to supplement aerial collections with precision terrestrial data. Together, this team gives DOTD comprehensive capabilities spanning bathymetric, terrestrial, and data management domains.

Sanborn's differentiators are clear:

- **Proven DOTD Experience** – Current On-Site Support and successful completion of the previous IDIQ contract.
- **Wholly Owned Assets** – Aircraft and sensors under Sanborn's direct control for maximum reliability.
- **Statewide Compatibility** – Deliverables fully interoperable with DOTD's Riegl VQ-1460.
- **World-Class Partners** – Tetra Tech, Whiteout, and EMC extend bathymetric, survey control, mobile, and data management capacity.
- **Commitment to Quality** – ISO 9001:2015 certified processes and DOTD-aligned QA/QC at every step.

We appreciate the opportunity to continue supporting DOTD and to build on our longstanding partnership. For questions or additional information, please contact: **Bradley Adams, P.E.,** Senior Vice President by phone at (972) 768-7393, or email at badams@sanborn.com.

Sanborn acknowledges that no Addenda have been released for this opportunity.

Sincerely,

John R Copple

Digitally signed by John R Copple
Date: 2025.09.18 10:11:49 -06'00'

John R. Copple,
Chief Executive Officer
The Sanborn Map Company, Inc.

Enclosures

DOTD FORM: 24-102

(Revised August 11, 2025)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	**IDIQ CONTRACT FOR WIDE-AREA LIDAR AND PHOTOGRAMMETRY SUPPORT SERVICES – FOR STATEWIDE TOPOGRAPHIC MAPPING PROGRAM**
2. Contract Number(s) as shown in the advertisement	**4400033158**
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name **(name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)**	THE SANBORN MAP COMPANY, INC. (Charter Number: 35595261F)
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	THE SANBORN MAP COMPANY, INC. (Prime): N/A EMC, INCORPORATED OF MS (EMC) (Subcontractor): VF.0000630
6. Prime consultant mailing address	305 S. Rockrimmon Blvd, Suite 200 Colorado Springs, CO 80919
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	305 S. Rockrimmon Blvd, Suite 200 Colorado Springs, CO 80919
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Bradley Adams, PE Principal in Charge/ Sr. Vice President- Transportation (972) 768-7393 badams@sanborn.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Mr. John R. Copple President/CEO (719) 593-0093 jcopple@sanborn.com / proposals@sanborn.com

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

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

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

John R Copple

Digitally signed by John R Copple
Date: 2025.09.18 10:13:19 -06'00'

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

Date: September 18, 2025

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

Firm(s): N/A

Firm(s)' %: N/A

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

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

Discipline(s)	% of Overall Contract	Prime-Sanborn	Firm B-Tetra Tech	Firm C-EMC. Inc.	Firm D Whiteout	Firm E	Each Discipline must total to 100%
Survey	100	75%	10%	10%	5%		**100%**
Identify the percentage of work for the **<u>overall contract</u>** to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	**100%**	75%	10%	10%	5%		**100%**

13. Team Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (must specify)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: https://bit.ly/DOTDJobClassifications

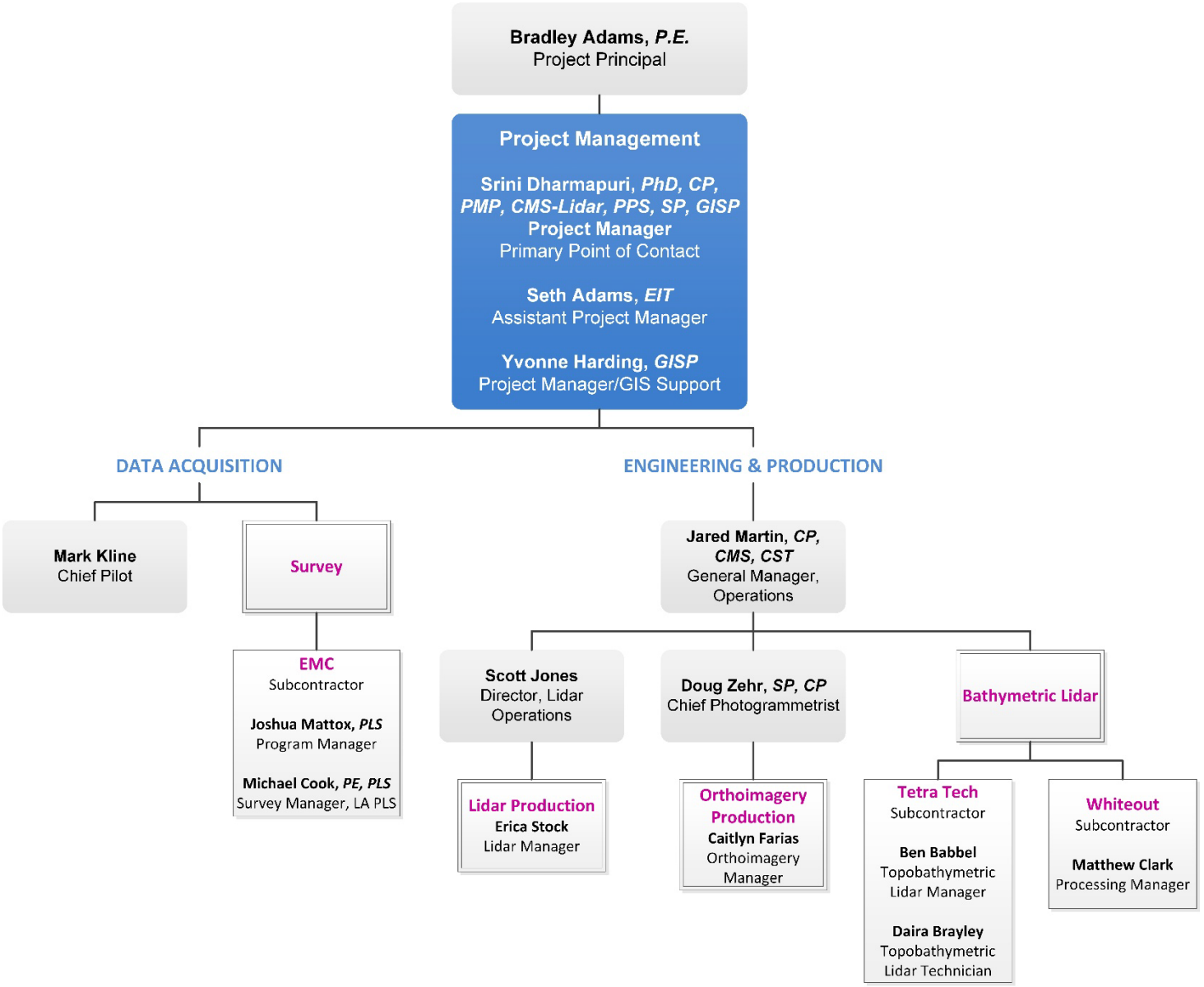
Firm name	DOTD Job Classification	**Number of personnel committed to this contract ***	Total number of personnel available in this DOTD Job Classification (if needed)
THE SANBORN MAP COMPANY, INC.	Engineer - Other	1	5
THE SANBORN MAP COMPANY, INC.	Other (must specify) Certified Photogrammetrist	3	3
THE SANBORN MAP COMPANY, INC.	Supervisor - Other	4	10
THE SANBORN MAP COMPANY, INC	Technician	5	35
THE SANBORN MAP COMPANY, INC.	CADD Operator	5	10
THE SANBORN MAP COMPANY, INC.	Senior Technician	5	9
THE SANBORN MAP COMPANY, INC.	Project Office Manager	2	2
EMC, INCORPORATED OF MS (EMC)	Surveyor	1	1
EMC, INCORPORATED OF MS (EMC)	Party Chief	1	11
EMC, INCORPORATED OF MS (EMC)	Technician	2	10
TETRA TECH, INC.	Professional	1	1
TETRA TECH, INC.	Senior Technician	1	1
WHITEOUT SOLUTIONS, INC.	Professional	1	3

(Add rows as needed)

***For evaluation purposes only**, and as referenced in the Scope of Services on page 2 of IDIQ advertisements only, the consultant shall assume the number of concurrently active task orders specified in the advertisement and shall identify the number of **committed** personnel accordingly.

14. <u>Organizational Chart</u>:

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



15. Minimum Personnel Requirements:

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

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Jared Martin, CP, CMS, CST	Sanborn	ASPRS Certified Photogrammetrist Certification Number: R1626CP		Expires: December 7, 2027
	Doug Zehr, CP, SP		ASPRS Certified Photogrammetrist Certification Number: R1021CP		Expires: June 23, 2028
2	Jared Martin, CP, CMS, CST	Sanborn	ASPRS Certified Mapping Scientist - Lidar Certification Number: R018L		Expires: December 7, 2027
3	Jared Martin, CP, CMS, CST	Sanborn	ASPRS Certified Photogrammetrist Certification Number: R1626CP		Expires: December 7, 2027
4	Dr. Srini Dharmapuri, PhD, CP, CMS, GISP, PMP, PPS	Sanborn	ASPRS Certified Photogrammetrist Certification Number: R1347CP		Expires: January 7, 2028
5	Michael O. Cook, PLS, PE	EMC, INC. OF MS	PLS # - 0004879	LA	Expires: September 30, 2026
6	Mark Todd Kline	Sanborn	Airline Transport Pilot		Issued: November 23, 2024 Expires: N/A
	Shelton Tait Fisher Jr.				Issued: December 3, 2012 Expires: N/A

(Add rows as needed)

16. Staff Experience:

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

Firm employed by Sanborn				
Name	Bradley Adams, P.E.		Years of relevant experience with this employer	2
Title	Sr, Vice President – Transportation		Years of relevant experience with other employer(s)	35+
Degree(s) / Years / Specialization			BSCE/ 1987 / Civil Engineering	
Active registration number / state / expiration date				
Year registered		Discipline	Professional Engineer (TX) No. 79295/ 1994	
Contract role(s) / brief description of responsibilities			Project Principal	

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).
1989 – Present	Experienced executive manager of engineering, surveying, and IT consulting firms with proven experience in implementing emerging technologies, creating business, developing new markets and exceeding business goals. He has generated more than $60 million in revenue in new geographic regions by leveraging technology and expertise. He has developed national leadership in both terrestrial laser scanning and mobile mapping for both survey grade and asset inventory. Additionally, he has integrated design software, CADD environments and digital aerial mapping for Departments of Transportation and Infrastructure Owners.
02/24 – Present	Sanborn Map Company Leading a transportation division that delivers end- to- end geospatial collection, processing, and publication projects for international infrastructure owners. Principal In Charge for LaDOTD Support Project; Arkansas DOT ROW Project; North Carolina DOT Aerial Mapping and Lidar IDIQ.
06/20 – 01/24	ESP Associates, Inc. Responsible for expansion of ESP west of the eastern United States and building a pavement management solution that combines traditional sensing with mobile mapping. Won competitive solicitations with minimal staff or resumes with successful identification and exceeding clients' needs. Created over $3 million in new revenue and clients with successful go to market plan and international partnering strategies.

Firm employed by Sanborn				
Name	Srini Dharmapuri, PhD		Years of relevant experience with this employer	7
Title	Vice President – Chief Scientist		Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization			PhD / 2006 / Satellite Photogrammetry; MTech / 1985 / Remote Sensing; MS / 1983 / Physics; Diploma / 1987 / Management and Operations Research	
Active registration number / state / expiration date				
Year registered		Discipline	Certified Photogrammetrist (CP) ASPRS, No. R1347, Reg. 2008, Exp. 2028 Project Management Professional (PMP) Project Management Institute, No. 1333949, Reg. 2010, Exp. 2028 Certified Mapping Scientist Lidar ASPRS, No. L0012, Reg. 2017, Exp. 2027 Professional Photogrammetric Surveyor SC, No. 24391, Reg. 2005, Exp. 2026 Surveyor Photogrammetrist (SP) Virginia, No. 0408000142, Reg. 2010, Exp. 2026 Geographic Information Systems Professional (GISP) GIS Certification Institute, No. 43865, Reg. 2010, Exp. 2027	
Contract role(s) / brief description of responsibilities			Project Manager	
Experience dates				
1986 – Present	Dr. Dharmapuri has over 35 years of experience in program/project management in the United States and other locations, specializing in Lidar, Photogrammetry, Remote Sensing, and GIS Services. Dr. Dharmapuri supports various technology initiatives that Sanborn is currently doing as a resident scientist, and he also supports Technology Management, Program Management, and Business Development for Sanborn. He previously served as MAEC's Geospatial Director, as well as Lidar Scientist for Michael Baker International, performing the role of subject matter expert and project/program management of various projects. Dr. Dharmapuri's project experience includes work with the USGS, FEMA, Oil and Gas, Utilities, natural resources management, floodplain mapping, land use/land cover, transportation, and aviation projects. Dr. Dharmapuri has worked on numerous photogrammetry projects that involved using bathymetry surveys, where the Photogrammetry data is supplemented with bathymetric surveys. The work revolved around detecting and mapping layering within the beds of ponds, lakes, streams, rivers, and estuaries. The technology has been used to locate three-dimensionally, map, and calculate the volumes of contaminated sediment.			
11/21 – 07/23	LADOTD Greater New Orleans Lidar project As a project manager, worked with the LADOTD on an aerial lidar project covering an area of 2800 sq miles, including New Orleans and surrounding areas. The project involves QL1 (8 points/ square meter) lidar acquisition and processing using USGS v 2.1 Specifications. As part of the project prepared the survey plan and interacted with the surveying company to acquire the calibration and checkpoints. The project has the following tasks. Aerial lidar acquisition; Survey control; lidar calibration and classification; Hydro break line extraction; Hydro breakline conflation and Monotonicity; QA/QC			
11/21 – 12/21	LADOTD North Shore Lidar Project-As a project manager, worked with LADOTD on an aerial lidar project covering an area of 900 sq miles, covering the North Shore area. The project involves only QL1 (8 points/ square meter) lidar			

	acquisition using USGS v2.1 specifications. As part of the project reviewed the survey plan from LADOTD and used the checkpoints in the accuracy analysis.
09/19-05/21	Barr Air Patrol- Historically, the aerial patrol was simply a visual inspection of the ROW, where, upon landing, pilots would submit a report or call the pipeline operator with a list of encroachments. With the advent of tablets, smartphones, and digital cameras, aerial patrol experienced its first evolution. Pilots can text, email, or even call about a sighting, loop around an encroachment, and take a grainy photo on their smartphone. Today, tablet-based systems are used in flights that tie directly to one-call systems and generate one-call tickets submitted directly to the field crews, but the imagery is still missing. Sanborn has worked with Barr to cover their track lines at all times to solve this problem, capturing imagery of every moment of every patrol. The imagery from these cameras has enabled pipeline operators to protect better and manage the pipeline and ROW. They have also collaborated with the internal team and Barr to validate the concept and operationalize it.
04/20-09/24	Building footprints extraction using Deep Learning based methods- Allen County, IN- Building footprint layers are key for a host of business applications, including the preparation of base maps, analysis workflows for urban planning & development, insurance, risk assessment, taxation, impervious land cover mapping, change detection, and infrastructure planning. Capturing building footprints using conventional mapping techniques is time-consuming and affects cost, project timelines, and business agility.
02/24-10/24	Lake Maumelle Bathy- Acted as Technical and Quality oversight for this project. Sanborn produced high-resolution elevation data to support water resource planning, infrastructure maintenance, and environmental monitoring, including investigation of a recent landslide near the dam. In conjunction with sub-contractors, collection of detailed bathymetric data and the creation of derived elevation products covering the eastern portion of Lake Maumelle—specifically Grids 1 through 5, with a re-collection of the area near the dam

Firm employed by	Sanborn		
Name	Jared E. Martin, CMS-Lidar, CP, CST	Years of relevant experience with this employer	6
Title	General Manager	Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization		B.S. Geography – Kansas State University, Manhattan, KS, 2010	
Active registration number / state / expiration date			
Year registered	Discipline	Certified Mapping Scientist (CMS-Lidar) - ASPRS, No. L018 / Reg. 2017, Exp. 2027 Certified Photogrammetrist (CP) - ASPRS, No. 1626 / Reg. 2017, Exp. 2027 Certified Survey Technician (CST) - NSPS, No. 6725 / Reg. 2012, Exp. 2026	
Contract role(s) / brief description of responsibilities		Program Manager	

Experience dates	
2011- Present	Mr. Jared Martin has more than 15 years of experience in the remote sensing profession. He has supervised and worked on programs ranging from multi-year large area projects to small area, high accuracy, quick-turn emergency response projects. Mr. Martin has a significant amount of experience in the execution of USGS Lidar projects and sits on a USGS standards setting committee. During his career he has refined his technical and managerial expertise by accumulating working knowledge in both small and large business environments. Mr. Martin has demonstrated his subject matter expertise in utilizing lidar data and technology from multiple platforms by developing and improving existing business processes resulting in better geospatial decision making.
2021 – 2022	LADOTD Greater New Orleans Lidar covering an area of 2,800 sq miles, including New Orleans and surrounding areas. The project involved QL1 lidar acquisition and processing using USGS Base Specifications. Oversaw the project aerial lidar acquisition, ground survey of control and check points, lidar calibration and classification, hydro breakline extraction, hydro breakline conflation and monotonicity, deliverable product generation, and QA/QC.
2017- 2019	State of Michigan, MiSAIL Lidar project, Michigan, Responsible for performing lidar calibration and overseeing the lidar production of both QL1 and QL2 data for this 13,000 square mile, multi-year program. The managed the coordination of ground survey, aerial acquisition, calibration, classification, products, and quality review.
2015 – 2016	United States Army Corp of Engineers, Missouri, Mr. Martin served as the production manager and led more than 12,000 square miles of QL2 and QL3 lidar in the state of Missouri. Overseeing the processing and delivery of data from multiple subcontractors, he led the production effort for both internal and external technicians and analysts. This project has been successfully delivered, meeting or exceeding the client's expectations.

Firm employed by Sanborn				
Name	Doug Zehr, CP, SP		Years of experience with this firm/employer	17
Title	Chief Photogrammetrist		Years of experience with other firm(s)/employer(s)	20

Degree(s) / Years / Specialization			Graduate Studies, Geography, Physical Geography/Cartography – Ball State University, Muncie, IN, 1986 BS, Earth-Space Sciences/Math – University of Indianapolis, Indianapolis, IN, 1984
Active registration number / state / expiration date			
Year registered	1997	Discipline	Certified Photogrammetrist (CP) – American Society for Photogrammetry and Remote Sensing (ASPRS), ASPRS No. R1021, Reg. 1997, Exp. 2028
Active registration number / state / expiration date			
Year registered	2009	Discipline	Surveyor Photogrammetrist (SP), Virginia, No. 0408000061, 2009
Contract role(s) / brief description of responsibilities			Photogrammetry and Mapping Lead

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
1992-Present	Mr. Zehr has 37 years of industry experience and is Sanborn's Imagery Director. His responsibilities include project planning and design, overseeing aerial triangulation, and the support of photogrammetric and lidar production processes. He also works with Sanborn's business development group designing production processes.
03/14 – Present	State of Michigan Department of Technology Management and Budget - Managed the Aerial Triangulation and DEM development processes for the orthoimagery program. Worked with the data acquisition and survey teams to ensure deliverables met desired accuracy and the required projection.
02/15 – 02/16	Washington DC OCTO Program, Washington DC. Managed the Aerial Triangulation processes for both Oblique imagery collected with the MiDAS camera system and Nadir imagery with the Leica RCD30 sensor. Worked closely with hardware/software vendors and the production team on developing a true ortho workflow for the orthoimagery base map.
04/09 - 2016	Virginia Base Mapping Program (VBMP), VA, Statewide orthophoto and DTM mapping program involving aerial photography collection, GPS surveys, AT, compilation, and orthophoto generation. Managed the Aerial Triangulation process for the program, beginning with statewide survey design and film-based cameras in 2007, to state of the art sensors and program design in 2016. Oversaw accuracy assessment of products as ASPRS CP and Virginia Surveyor Photogrammetrist.

Firm employed by Sanborn				
Name	Yvonne Harding, PLS, GISP		Years of experience with this firm/employer	22
Title	Senior Program Manager		Years of experience with other firm(s)/employer(s)	4
Degree(s) / Years / Specialization			BS, Earth Sciences—University of North Carolina at Charlotte, Charlotte, NC, 1998	
Active registration number / state / expiration date			**PLS: SC** (#24118 L) Exp 6/30/2026; **NC** (#L-5424) Exp 12/31/2025 **GISP:** (#60209) Exp 9/25/2027	
Year registered	2004/SC PLS 2021/NC PLS 2008/GISP	Discipline	Land Surveyor and GISP	
Contract role(s) / brief description of responsibilities			GIS Support	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
1999-2025	Ms. Harding has over 26 years of experience in many phases of digital mapping and orthophotography production and is currently Senior Program Manager. Ms. Harding's responsibility is to manage mapping projects and to support in an advisory role in technical areas of expertise. In particular, she has many years of expertise with complex GIS projects.
04/16 – 12/16	Connecticut Statewide, Capital Region Council of Governments (CRCOG), CT, Ms. Harding was the GIS supervisor for this project; verifying the final QC and topology check this project and all additional City buy-ups as listed below. For this project, Sanborn was contracted by the State of Connecticut to provide statewide coverage (approximately 5,100 square miles) of 3-inch orthoimagery, QL2 Lidar, and 1-foot and 5-foot contours. The aerial imagery was collected in the spring of 2016. Additional services included: ground control surveys to support the project, aerial triangulation to tie the new aerial photography and verify the ground control, new 3-inch, 4-band, 8-bit, RGB/NIR digital orthophotography tiles in GeoTIFF and MrSID formats, new QL2 USGS-compliant lidar for the entire state, a new bare-earth, hydro-flattened DEM to support orthorectification and contour production, a new 1-foot and 5-foot contour data set and MrSID orthomosaics for each town.
12/16 – 12/17	Southern Connecticut Gas Company (SGC), CT. SGC was in the process of implementing an Esri ArcGIS-based Geographic Information System (GIS); this system used the digital orthophotography and data sets created by Sanborn through the Capital Region Council of Governments (CRCOG) spring 2016 Statewide GIS Acquisition and Services buy-up program (as listed above). SGC contracted Sanborn to provide a geodatabase design, perform prototyping, a pilot project and planimetric data extraction to develop an Esri ArcGIS planimetric database and MicroStation. DGN CAD file set for features in a

	594.4 square mile project area. Ms. Harding was the GIS supervisor for this project; verifying the final quality assurance and control and the generation of the metadata for this project.
10/16 – 05/17	March Air Reserve Base (ARB), Riverside, CA. Sanborn collected Obstacle/Obstruction data for all ground and elevated features that penetrate the Airspace surfaces and clearance for March ARB. Sanborn acquired this data by using aerial photography and aerial lidar data to produce an Airfield Obstruction Survey for the airfield and surrounding area, with mapping products, including ground elevation contours, tree canopy points and GIS products with orthorectified aerial photography, 3D buildings, and prints. Oblique imagery was also collected for this project with 2.5-inch resolution. Oblique images were delivered together with the Sanborn Oblique Analyst® viewer software. A terrestrial scan of 5 hangars was also performed and 3D LAS files produced. Ms. Harding was the GIS supervisor for this project; verifying the final QC and topology check for the project.

Firm employed by	Sanborn		
Name	Seth Adams	Years of relevant experience with this employer	1
Title	Program Manager	Years of relevant experience with other employer(s)	11

Degree(s) / Years / Specialization			Bachelor of Science (BS) of Civil Engineering
Active registration number / state / expiration date			EIT 79113 / Texas / 9/20/2027
Year registered		Discipline	
Contract role(s) / brief description of responsibilities			Assistant Project Manager

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).
09/24-Present	Supports the Project Management Office and acts as lead on assigned projects. Provides status reporting in support of PMO group. Provides extensive support with project management and planning software for scheduling and Earned Value Analysis tracking. Assists in monitoring cost to budget performance.
02/20-08/24	As a Geospatial Project Manager at WGI, Mr. Adams was instrumental in the estimation, planning, execution, and delivery of diverse Geospatial projects. Mr. Adams navigated challenges across the company by identifying and resolving obstacles, which significantly enhanced team communication and alignment. Mr. Adams was deeply involved in qualifying opportunities and developing detailed project plans, overseeing everything from initial data collection to final delivery. To increase efficiency and provide superior solutions to clients, Mr. Adams successfully integrated multiple hardware and software technologies. When standard solutions did not meet client needs, Mr. Adams took the initiative to create custom tools to ensure data was delivered in an accessible and usable format. His work spanned a range of projects, from precise static scanning to extensive network-level collections, consistently resulting in successful outcomes.
11/14 – 02/20	Mobile Mapping product line into the U.S. Market. Responsible for understanding the emerging Mobile Mapping products, translating them into productive use for our clients, partners, and staff. Contributed to the expansion of emerging markets for Ground Penetrating radar and enterprise level collection. Leading the worldwide team in understanding the technology for the purpose of sales, support, training and servicing the products. Teaching our international team to understand the Geospatial market, growing our business worldwide. Researched the market to competitively price our products for the introduction into the market. Assisted the sales process by overcoming obstacles; then supported our clients in the productive use of that technology. Compiled and published competitive challenges and strategized with the development team to overcome these issues. Presented nationally and internationally on Leica's product offerings and how our platforms could overcome the toughest issues that our industry faces.

04/13-11/14	Utilizing Reality Capture to overcome obstacles that the construction industry encounters. Monitored the use of Leica P20 ScanStation for multiple jobs, evaluating potential obstacles on jobs and found solutions to get the expected result. Rectified the Raw scan data, using Leica Cyclone and Autodesk ReCap to provide deliverables of as built or real word conditions that can be utilized for design. Modeled using Autodesk Revit to provide as-built models provided by the laser scan data. Worked with multiple design teams to check the feasibility of the design provided per design documents.

Firm employed by	Sanborn		
Name	Scott Jones	Years of relevant experience with this employer	<1 year
Title	Director of Lidar Operations	Years of relevant experience with other employer(s)	>20 years

Degree(s) / Years / Specialization			Bachelor of Science (BS) of Geomatics, 2003
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities			Director, Lidar Operations

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).
08/25 - Present	Director of Lidar Operations, The Sanborn Map Company, Inc. - As the Director of lidar Operations at Sanborn, Mr. Jones supervises and coordinates the activities and personnel of the lidar department, ensuring production and quality standards are met by performing the following duties personally or through subordinate personnel. He is responsible for the logistics, prioritization, development, coordination, and management of the lidar department in the areas of software, staffing, training, development, inventory, operation, and systems analysis, and he coordinates with and supports other production staff. Mr. Jones manages workflow needs and develops and maintains department schedules to meet required service levels and to meet all project schedule requirements. He ensures proper resource allocation and oversees the overall administration of lidar production systems, software systems, and equipment, and identifies enhancement opportunities.
06/22 – 08/25	Technical Operations Manager, The Atlantic Group, LLC (dba WGI Geospatial) - Following the acquisition of Atlantic by WGI in July 2022, Mr. Jones was assigned the role of Technical Operations Manager to lead the deployment of advanced remote sensing sensors, establish workflows for producing data from those sensors, and build connectivity with client organizations through integrated GIS solutions. In this role, he worked extensively with WGI's existing geospatial division, which specialized in survey, Subsurface Utility Engineering (SUE), UAS operations, and Terrestrial Mobile Lidar (TML).
10/12 – 06/22	Vice President, The Atlantic Group, LLC – Mr. Jones joined Atlantic as a contract sensor operator and grew my role as the organization grew. When he joined Atlantic in October 2012, the company had 35 professionals and an annual revenue of $3.75M. When the company was sold in June 2022, he was a key senior technical leader in a business that had grown to a national firm with significant contract and technical presence in our profession.

	▪ Led the development of new technical operations to support our prime contractor requirements on nationwide contracts with the USGS, US Army Corps of Engineers, US Bureau of Reclamation, and GSA. ▪ Oversaw the evaluation and onboarding of five new airborne lidar sensors from Hexagon (Leica) and Teledyne Optech, including the first Optech G2 system in the world, which combines two Optech T-2000's in the same platform. ▪ Led the evaluation and onboarding of the PhaseOne 280mp large format multi-spectral camera system. This was the first PhaseOne 280mp in North America and my technical leadership through this process led to many system and software improvements issued by PhaseOne since our onboarding. ▪ Provided technical leadership in the collection, processing, and acceptance of over 250,000 mi2 of USGS Quality Level 1 and Quality Level 2 lidar data for the 3DEP (3D Elevation Program) and National Map. ▪ Held key leadership in the company as we transformed company culture from a "mom & pop" operation to a dynamic, innovative technical organization, fostering a culture of professional development and collaboration.
02/10 – 10/12	Lidar Services Lead, Optimal Geomatics / Aeroquest / Magnolia River - During his 2+ year employment with this firm, it was sold twice. This constant change in ownership allowed him to thrive in his role because he is always willing to adopt change and modify team requirements to meet company goals. ▪ Spearheaded the LiDAR data services team, delivering calibration, classification, QA/QC, and final dataset development for government and private sector clients. ▪ Coordinated multiple project teams, optimizing data processing activities and maintaining contractual delivery schedules. ▪ Led the development of new workflows which yielded a 25% gain in efficiency in lidar data processing activities.
03/07 – 12/10	Geodetic Surveyor / Lidar Analyst, Aerometric - Aerometric (now part of NV5 Geospatial) was a leading photogrammetric, lidar, and GIS firm with multiple locations throughout the United States. Our focus in Alaska was to support large-scale transportation, aviation, and tribal programs throughout Alaska and Western Canada. ▪ Performed precise geodetic surveys and lidar analysis for infrastructure projects in sometimes harsh weather conditions.

01/05 – 02/07	Party Chief, Alaska Department of Transportation - The Alaska DOT oversees not only the roadways and bridge infrastructure in the most complex environmental conditions in the United States, but they also oversee the largest private aviation community in all North America. ▪ Managed survey teams in data collection for transportation infrastructure, coordinating daily operations and equipment logistics. ▪ Improved project timelines by introducing enhanced GPS techniques and efficient survey workflows in complex environments.

Firm employed by	Sanborn		
Name	Erica Stock	Years of relevant experience with this employer	4
Title	Program Manager	Years of relevant experience with other employer(s)	18

Degree(s) / Years / Specialization			Bachelor of Science (BS) / 2004 / Geography
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities			Lidar Manager

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).
06/21 – Present	United States Geological Survey (USGS), Geospatial Products and Services Contracts (GPSC), June 2021—Present. Ms. Stock acts as the Lidar Manager for this project. The GPSC contract is used by federal, state, and municipal government entities to partner with the USGS to fulfill their geospatial data requirements. Sanborn services performed under the GPSC are primarily for Topographic Data Development services. To date, Sanborn has delivered approximately 60,000 square miles of lidar data under multiple task orders.
06/21 - Present	Orange County Property Appraiser (OCPA), FL Orthoimagery & Lidar Project - Ms. Stock acts as the Lidar Manager for this project. OCPA has contracted with Sanborn over several years to update the orthoimagery and lidar covering approximately 1,153sqmi. Sanborn collected and delivered 8pts/m2 lidar, including Classified lidar, Intensity images, First-return DSM, Bare-earth DEM and hydroflattening breaklines.
06/21 – 04/22	Texas Water Development Board - Ms. Stock served as the Lidar Manager. She oversaw the production and delivery for this 3,700 square miles of QL1 and QL2 Lidar project. This project has been successfully delivered, meeting the client's expectations.
06/21 – Present	International Transmission Company (ITC) Midwest Power Lines – Ms. Stock acts as Lidar Manager for this project. The contract is an IDIQ contract to conduct aerial surveys of ITC's power transmission line assets and to generate PLS-CADD models containing classified lidar, digital orthophotography supported by meteorological reports and GIS records of aerial survey coverage.

Firm employed by	Sanborn		
Name	Caitlyn Farias	Years of relevant experience with this employer	14 years
Title	Orthoimagery Manager	Years of relevant experience with other employer(s)	

Degree(s) / Years / Specialization			Bachelor of Arts / 2010 / Anthropology
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities			Orthoimagery Manager

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).
01/21 – 12/24	Indiana Statewide Orthoimagery Program – Ms. Farias acted as Orthoimagery Manager for this project. In Spring of 2021, the State contracted with Sanborn with the goal is to acquire 6in imagery for the entire state within a 4-year program. The schedule requires approximately 1/3 of the state to be flown per year in an ongoing rotation. The project encompasses the entire land area of the State of Indiana, approximately 36,418sqmi.
12/19 – Present	Orange County Property Appraiser (OCPA), FL Orthoimagery & Lidar Project – Ms. Farias acts as the Orthoimagery Manager for this project. OCPA has contracted with Sanborn over several years to update the orthoimagery and lidar covering approximately 1,153sqmi. Sanborn collected and delivered 6-inch and 3-inch Orthoimagery as well as 6-inch Oblique Imagery throughout the entire County.
01/17 – 01/22	Arkansas Statewide Orthoimagery Program – Ms. Farias acted as Imagery Analyst for this project. The project includes the acquisition and processing of new 4-band (Red, Green, Blue, Near-Infrared) of orthoimagery throughout the State of AR at 1-foot (30cm) resolution (approx. 54,000sqmi of coverage). In the 1st year of the contract, the State opted to obtain an additional 3,498sqmi of imagery upgraded to 6-inch (15cm) GSD for select urbanized areas.
2015 – Present (multiple, 1yr contracts awarded)	Aerial Imagery Acquisition, Lidar, Contours and Planimetric Data for Central Oklahoma Alliance of Government Agencies (COAGA) – Ms. Farias acts as Orthoimagery Manager for this project. Sanborn has been selected multiple times since 2015 as the vendor for the Central Oklahoma Alliance of Government Agencies (COAGA) imagery program to support data acquisition needs related to digital orthoimagery, planimetric mapping, and topographic mapping of the Association of Central Oklahoma Governments (ACOG) and its member governments and agencies. Deliverables over the years have included 3-inch, 6-inch, or 1-foot resolution orthoimagery, as well as planimetric updates, lidar, and contours.

Firm employed by	Sanborn			
Name	Mark Kline		Years of relevant experience with this employer	7yrs
Title	Chief Pilot		Years of relevant experience with other employer(s)	20+yrs
Degree(s) / Years / Specialization			AS / Aviation Maintenance	
Active registration number / state / expiration date				
Year registered		Discipline	Airline Transport Pilot License Issued: November 23, 2024 Expires: N/A	
Contract role(s) / brief description of responsibilities			Chief Pilot	

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).
01/21 – 12/24	Indiana Statewide Orthoimagery Program – Mr. Kline acted as Chief Pilot for this project. He oversees aircraft and flight crew movement and coordinates with the acquisition team to achieve the highest quality and most efficient collection procedures possible. In Spring of 2021, the State contracted with Sanborn with the goal is to acquire 6in imagery for the entire state within a four-year program. The schedule requires approximately one-third of the state to be flown per year in an ongoing rotation. The project encompasses the entire land area of the State of Indiana, approximately 36,418 square miles. The entire perimeter of the State is buffered by at least 2500 feet.
06/21 – Present	United States Geological Survey (USGS), Geospatial Products and Services Contracts (GPSC), June 2021—Present. Mr. Kline acts as the Chief Pilot for this project. He oversees aircraft and flight crew movement and coordinates with the acquisition team to achieve the highest quality and most efficient collection procedures possible. The GPSC contract is used by federal, state, and municipal government entities to partner with the USGS to fulfill their geospatial data requirements. Sanborn services performed under the GPSC are primarily for Topographic Data Development services. To date, Sanborn has delivered approximately 60,000 square miles of lidar data under multiple task orders.
2021 – 2022	LADOTD Greater New Orleans Lidar covering an area of 2,800 sq miles, including New Orleans and surrounding areas. Mr. Kline acted as Chief Pilot for this project. The project involved QL1 lidar acquisition and processing using USGS Base Specifications. Mr. Kline oversaw the project aerial lidar acquisition, coordinating with the acquisition team to achieve the highest quality and most efficient collection procedures possible.

06/21 - Present	Orange County Property Appraiser (OCPA), FL Orthoimagery & Lidar Project – Mr. Kline acts as the Chief Pilot for this project. OCPA has contracted with Sanborn over several years to update the orthoimagery and lidar covering approximately 1,153sqmi. Sanborn collected and delivered 8pts/m2 lidar, including Classified lidar, Intensity images, First-return DSM, Bare-earth DEM and hydroflattening breaklines. Mr. Kline oversees the project aerial lidar acquisition, coordinating with the acquisition team to achieve the highest quality and most efficient collection procedures possible.

Firm employed by EMC, Inc. of MS				
Name	**Joshua S. Mattox, PLS**		Years of relevant experience with this employer	27
Title	**Contract and Project Manager**		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / Land Surveying / 2005 / Mississippi State University	
Active registration number / state / expiration date			Professional Land Surveyor: MS (#3005) Exp.12/2026 ; SC (#26604) Exp. 06/2026; ND (#8168) Exp. 12/2026	
Year registered	2006 MS #-3005; 2008 SC #-26604; 2012 ND #-11478	Discipline	Professional Land Surveyor	
Contract role(s) / brief description of responsibilities			Program Manager	

Mr. Joshua S. Mattox, a registered professional land surveyor in four states and the President of EMC, Inc. oversees EMC's nationwide operations and has managed 18 successful indefinite delivery/indefinite quantity surveying contracts for government agencies. As the single point of contact for this contract, Mr. Mattox holds authority over decision-making, proposal submission, price negotiation, and contract management. He plays a key role in estimating, negotiating, scheduling, planning, and monitoring every project. Additionally, Mr. Mattox contributes significantly to EMC's QA/QC team, ensuring the accuracy of surveying data before submission.

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).
01/23 - Ongoing	**MDOT Professional Surveying Services Master Contract -** Mr. Mattox is the contract manager and professional land surveyor in-charge of this surveying and mapping master contract with MDOT. Some of surveying services under this contract have been boundary, topographic, ground based mobile lidar, and hydrographic surveying.
01/23 - Ongoing	**MDOT Professional Photogrammetry and LiDAR Services Master Contract -** Mr. Mattox is the contract manager and professional land surveyor in-charge of this surveying and mapping master contract with MDOT. Some of surveying services under this contract have been aerial imagery, aerial LiDAR, topographic, ground based mobile lidar, and hydrographic surveying.
12/19 – 12/24	**Easement Boundary Survey Services for Natural Resources Conservation Services (NRCS) of Louisiana -** Contract & Project Manager - EMC has an ongoing relationship with the NRCS of Louisiana providing legal boundary surveying services for the Agricultural Conservation Easement Program (ACEP) Wetland Reserve Program, Watersheds Protection Program, Grasslands Reserve Program, and the Farm/Ranchland Protection Program. Our surveying services include boundary surveys, researching deeds of owners and adjoiners, surveying the property, setting monuments, mapping, creating legal descriptions and digital plats. Under our current contract EMC has conducted 49 easement boundary surveys totaling $2,350,147.81 in surveying fees over the last 5 years.

09/23 – 02/24	**West Atchafalaya Basin Protection Levee, St. Mary Levee District, W-99 Levee Enlargement B/L Sta. 5094-50 to B/L Sta. 5314+00, St. Mary Parish, LA (Client: USACE, New Orleans) -** EMC was tasked to extend the topographic cross-section survey along the West Atchafalaya Basin Protection Levee, a continuation of Job #23-035C. Covering the stretch from B/L Sta. 5094+50 to B/L Sta. 5314+00 in St. Mary Parish, LA, This survey aimed to augment existing data for comprehensive plans and specifications. Mr. Mattox was the Project Manager for this project. Mr. Mattox oversaw the planning and completion of these Static GPS, RTK/GPS, and Geodetic Leveling Surveys. He also provided his surveying expertise to surveying crews as they collected topographic data for this project and performed quality control checks before final submittal. Cost:$577,035.29
05/24 – 07/24	**ALTA Survey for TCC Survey Support to RSFO, San Antonio, Bexar County, TX (Client: USACE, Fort Worth)** - Project Manager - **E**MC, Inc. was contracted to provide ALTA survey services for four parcels, all located in, San Antonia, TX. The survey effort entailed Static GPS Control surveying, RTK and conventional topographic surveying, mobile lidar surveying and boundary retracement surveying. Mr. Mattox was the Project Manager for this project. Mr. Mattox oversaw the planning and completion of these various surveys. Cost: $497,785.58
10/22 – 02/23	**Hydraulics Surveys for the Mississippi Department of Transportation, Eight Sites throughout The State of Mississippi (Client: HDR) –** EMC performed hydraulic surveys at Phillip Bayou, Bayou LaCroix, Bayou Talla and Horn Lake sites. Mr. Mattox was the project manager for this project. He played a vital role during the estimating, planning and oversight of this task. Furthermore, Mr. Mattox reviewed the surveying data, provided his surveying expertise, and assisted in the final review before submittal. Cost: $104,150.72

Firm employed by EMC, Inc. of MS			
Name	**Michael Cook, PE, PLS**	Years of relevant experience with this employer	14
Title	**Survey Manager, LA PLS and PE**	Years of relevant experience with other employer(s)	23

Degree(s) / Years / Specialization	B.S.1992 / Civil Engineering; M.E. / Civil Engineering; M.B.A. / Business Administration
Active registration number / state / expiration date	**PLS: LA** (#4879) Exp 09/2026; MS (#2538) Exp. 12/2026; GA (#2903,) Exp 12/2025; AZ (#47374,) exp. 03/2026; KS (#1425) exp. 03/2026; NC (#L-4672) Exp. 12/2025 **PE: LA** (#28912) Exp. 09/2026; MS (#11395) Exp. 12/2026

Year registered	2001/LA PLS 2008/ KS PLS 1991/ MS/PLS 2007/ NC PLS 2008/ AZ PLS 2002 GA/PLS 2000/ LA PE 1992/ MS PE	Discipline	LA Professional Land Surveyor and LA Civil Engineer

Contract role(s) / brief description of responsibilities	Survey Manager, LA PLS

With an extensive 36-year tenure in the surveying and engineering realm, Mr. Cook assumes the pivotal role of Louisiana Professional Land Surveyor in-charge for EMC's accomplished team. His seasoned background encompasses diverse projects, notably contributing to numerous surveying and engineering government contracts, with a noteworthy portfolio that includes collaborations with the US Army Corps of Engineers, Natural Resource Conservation Services, U.S. Fish and Wildlife, Coastal Protection and Restoration Authority Projects, etc. Mr. Cook is set to play a proactive role in coordinating seamless survey coordination. His wealth of experience will be instrumental in providing expert guidance for the execution of surveying services, ensuring quality control across fieldwork, and office processes.

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).
05/24 – 06/24	**Upper Barataria Reach G, Paradis, LA (Client: USACE, New Orleans) -** Civil Engineer & PLS - The USACE tasked EMC to perform a topographic survey of an access area and marsh area at requested locations. The survey commenced on May 23, 2024, and concluded on June 21, 2024. The purpose of the survey was to support hydraulic modeling efforts. Mr. Cook oversaw work plans, provided technical assistance, and provided surveying expertise in order to complete the task order. Cost: $130,595.04
12/19 – 12/24	**Easement Boundary Survey Services for Natural Resources Conservation Services (NRCS) Throughout the States of Louisiana -** EMC has an ongoing relationship with the NRCS of LA providing legal boundary surveying services for the Agricultural Conservation Easement Program (ACEP) Wetland Reserve Program, Watersheds Protection Program, Grasslands Reserve Program, and the Farm/Ranchland Protection Program. Our surveying services include boundary

	surveys, researching deeds of owners and adjoiners, surveying the property, setting monuments, mapping, creating legal descriptions and digital plats. Mr. Cook was EMC's lead PLS for this contract in providing easement boundary surveys for many different NRCS programs. Under this current contract EMC has provided 49 easement boundary services throughout the 15 Parishes in Louisiana over the last 5 years. Cost: $2,350,147.81
09/24 – 11/24	**MTG Reach A Initial Survey, Terrebonne Parish, LA (Client: USACE, New Orleans)** - Civil Engineer & PLS – EMC was tasked with performing a topographic survey to verify new levee centerline, locate PBMs and run loops. Mr. Cook managed this project as the PE and LA PLS for EMC to ensure accuracy and provide expertise on the completion of this survey. Cost: $119,738.28
02/23 – 09/23	**Hydraulic, Topographic and Subsurface Investigation Surveys along Highway 49 South of Yazoo City, MS (Client: HDR) -** HDR contracted EMC to locate utilities and conduct hydraulic surveys along Highway 49 in Yazoo County, MS. The scope included various critical aspects such as intersections, slide/washout areas, repair zones, frontage road sections, hydraulic features, utility and drainage structure assessments, and tree surveys in specified areas. Mr. Cook, as EMC's Civil Engineer, ensured accuracy through research and quality control. Project cost: $112,986.78.
01/24 – 04/24	**Removable Barrier Project, Starr and Hidalgo, TX (Client: USACE, Fort Worth)** - Civil Engineer & PLS - The USACE tasked EMC to perform boundary, control, utility and easement acquisition surveys along 31 tracts of various size land in Starr and Hildalgo Counties, TX. The Metes and Bounds, topographic, and utility surveys were conducted, as well as the creation of parcel descriptions in support of boundary acquisition & easements along the national border. Mr. Cook, as EMC's Civil Engineer, ensured accuracy through research and quality control. Project cost: $549,151.75
09/23 – 12/23	**Surveying Services for SELA 73, Gen DeGaulle Drainage Canal Enhancements & P&S Development New Orleans, LA (Client: USACE, New Orleans) -** Civil Engineer and PLS in-charge, Mr. Cook oversaw work plans, provided technical assistance, and provided surveying expertise in order to complete the survey requirements on this task order. The survey was necessary to facilitate the engineering and design of drainage canal enhancements, and P&S development. Cost: $390,455.74

Firm employed by Tetra Tech			
Name	Ben Babbel	Years of relevant experience with this employer	2
Title	Topobathymetric Program Manager	Years of relevant experience with other employer(s)	10

Degree(s) / Years / Specialization			M.S., Civil Engineering – Geomatics, Oregon State University, 2020 B.S. Geography – Geographic Information Systems, Brigham Young University, 2015
Active registration number / state / expiration date			
Year registered		Discipline	Topobathymetric Lidar Manager
Contract role(s) / brief description of responsibilities			

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).
	Ben Babbel is a senior level professional with more than 10 years of airborne lidar experience supplemented with a strong academic background in geomatics and GIS. Ben's experience encompasses every aspect of the lidar process, from acquisition to derived products and analysis. Because of the breadth of his capabilities, he plays a vital role in leading the development of the topobathymetric lidar program at Tetra Tech. Ben has also worked with a wide range of mapping technologies, from conventional topographic lidar to satellite-derived bathymetry. His academic work even included terrestrial and UAV-based lidar mapping, in conjunction with traditional ground surveying. Ben also published two papers in scientific journals during his graduate studies and developed a website to display and disseminate satellite-derived bathymetry data to the public.
2023 – Present	**Aerotech – San Diego 3 Lakes, California-** Project management and technical expertise for acquisition and processing of topobathymetric lidar over three separate lakes in San Diego, California. Mr. Babbel played an integral role in troubleshooting sensor and software issues that arose and interfaced with Teledyne Optech regularly to resolve these issues.
2023 – Present	**State of Montana, Natural Resource Damage Program – 2025 Milltown Restoration Site Lidar Acquisition-** Lead all project efforts from planning and data acquisition through data processing and deliverables. Mr. Babbel worked extensively with the Teledyne Optech, the CZMIL SuperNova manufacturer, to troubleshoot software issues in order to obtain improved results in the acquired lidar.
2023 – Present	**State of Idaho Department of Lands – Clearwater Lidar Refresh-** Performed overall project management and technical expertise in the acquisition and processing of over 800 square kilometers

	of topographic lidar data in northern Idaho. Developed a new script to automate the assigning and correction of PSIDs of lidar swaths in order to facilitate data calibration.
2023 – Present	**Verdantas – Blue River, Colorado** Duties for this project included but were not limited to flight planning and coordination, technical oversight, overall project management, and QA/QC. Furthermore, Mr. Babbel developed a new data processing method to help

Firm employed by	Tetra Tech		
Name	Daira Brayley	Years of relevant experience with this employer	2
Title	Bathymetric LiDAR Strategist	Years of relevant experience with other employer(s)	6

Degree(s) / Years / Specialization			MS, Environment and Development, London School of Economics and Political Science, 2019 BA, Environmental Studies, and Political Science, Eckerd College, 2018
Active registration number / state / expiration date			
Year registered		Discipline	ASPRS, CMT-Lidar, #LT104, Expires 08/26/2028
Contract role(s) / brief description of responsibilities			Topobathymetric Lidar 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).
	Daira Brayley has over 5 years of experience working in the geospatial field, with a focus on topobathymetric data. Daira's responsibilities are centered around the production side of projects, she mostly works with topobathymetric light detection and ranging (LiDAR) editing, performing QC reviews, and creating final client deliverables. Daira has worked with a wide range of government contracts and contributed to more than a dozen topobathymetric projects. The majority of her projects are for government contracts and utilize the CZMIL SuperNova sensor. While Daira's professional experience has been exclusive to bathymetric lidar during her academic studies, she traveled to Bhutan to conduct field research on her senior thesis, while simultaneously working with a research professor on mapping and digitizing community forest in Bhutan.
2024	**National Oceanic and Atmospheric Administration, National Geodetic Survey (NOAA NGS), Shoreline Mapping for the Texas Coastal Mapping Program-** Worked as a subcontractor for Fugro to help on their NOAA NGS Texas shoreline mapping project. Topobathymetric LiDAR Strategist duties for this project included but were not limited to reviewing the initial grounding and making note of additional work needed, editing lidar data, performing QC reviews, and creating final client deliverables.

2024	**Verdantes, Blue River, Co-** Topobathymetric LiDAR Strategist duties for this project included but were not limited to reviewing the initial grounding, refraction corrections, editing lidar data, performing QC reviews, and creating final client deliverables.
2024	**National Oceanic and Atmospheric Administration, National Geodetic Survey (NOAA NGS), Shoreline Mapping for the Florida Coastal Mapping Program-** Worked as a subcontractor for Fugro to help on their NOAA NGS Florida shoreline mapping project. Topobathymetric LiDAR Strategist duties for this project included but were not limited to reviewing the initial grounding and making note of additional work needed, editing lidar data, performing QC reviews, and creating final client deliverables.
2024	**WGI Geospatial, Lidar and 4-Band Digital Imagery Acquisition-Production for the Bureau of Reclamation –** Lower Colorado Basin Project Big Bend Conservation Area- Worked as a subcontractor for WGI geospatial on their BBCA project. Lidar strategist duties included initial review of data after grounding and calibration, refraction fixes, lidar editing, QC review, and creating final client deliverables.

Firm employed by	Whiteout Solutions		
Name	Matthew Clark	Years of relevant experience with this employer	9 Years
Title	Chief Technology Officer	Years of relevant experience with other employer(s)	>20 years

Degree(s) / Years / Specialization			Bachelor of Science (BS) of Computer Science, 2003
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities			Processing Manager

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).
2016- Present	**Whiteout Solutions LLC - Co- Founder and CTO** • Lead technical strategy, innovation, and solution development for advanced aerial survey and geospatial data services. • Oversee deployment of LiDAR, photogrammetry, and topobathymetric technologies to deliver high-accuracy datasets for engineering, environmental, and infrastructure projects. • Manage software and data processing workflows, ensuring efficiency, scalability, and quality control. • Collaborate with clients and partners to design tailored geospatial solutions that drive project success. • Direct technical team operations, fostering innovation and maintaining industry-leading standards.
Nov. 2023- Feb. 2024	**South Carolina Coastal Marsh Study - Cornell Lab of Ornithology & US Fish and Wildlife & South Carolina Dept Natural of Resources** The project was in support of restoration efforts in the ACE Basin to support wetlands and Eastern Black Rail habitats. Specifically tracking the effects of water management and their precise levels in the high marsh.

Jan. 2024- Jan. 2025	**Connecticut Coastal Mash Study – CT DEEP** This project deployed topobathymetric LiDAR and hyperspectral imaging to map and analyze protected coastal marshlands across the state. The combined dataset provides detailed elevation, vegetation, and habitat information to support ecosystem health assessments, restoration planning, and long-term monitoring of coastal resilience. Results offers agencies and stakeholders a comprehensive baseline to track change, guide management decisions, and protect these critical environments

17. Firm Experience:

Firm name	The Sanborn Map Company, Inc.		Discipline(s)*	Survey	
Project name	United States Geological Survey, Geospatial Products and Services Contracts version 3 (GPSC3)			Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	United States Geological Survey (USGS)		
Project location	Varies		Owner's Project Manager	Mr. Walter Kloth, Contracting Officer Representative	
Owner's address, phone, email	USGS, Midcontinent Mapping Center, 1400 Independence Road, Rolla, MO 65401-2602 303-202-4334, wkloth@usgs.gov				
Services commenced by this firm (mm/yy)	09/16	Total consultant contract cost ($1,000's)		13,700	
Services completed by this firm (mm/yy)	08/21	Cost of consultant services provided by this firm ($1,000's)		13,700	

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

In October of 2016, Sanborn was awarded a Geospatial Products and Services Contracts version 3 (GPSC3) from the U.S. Geological Survey (USGS) that allows the agency to negotiate task orders with Sanborn during a five-year term. Sanborn was awarded another subsequent five-year contract in 2021 (GPSC4).

Task Orders

- **FEMA Region 6 / 3 Counties, Oklahoma –** The project area is approximately 2,021 square miles, identified as "OK_Illinois-Cherokee-Mayes" and includes the partial counties of Mayes, Cherokee, Adair, Sequoyah, Rogers, Craig, Delaware, Benton, Crawford and Washington, Oklahoma. The scope requires lidar data to be collected and processed in accordance with FEMA and USGS specifications. The scope of services includes lidar acquisition, calibration, classification, hydro flattening and final deliveries. Additionally, 130 check points were captured in accordance with requirements to document spatial accuracy. Deliveries include: Raw Point Cloud Data, Classified Point Cloud, Bare Earth Surface (Raster DEM), Breaklines, Intensity Image, Control, Metadata, Project Report, Acquisition Reports, and Project Pilot. Spatial
- **NJDEP-Bureau of Flood Control / 6 Counties, NW New Jersey, Lidar –** The project area is approximately 2,358 square miles covering 6 counties located in northwestern New Jersey. The scope requires lidar data to be collected and processed in accordance with FEMA and USGS specifications. The scope of services includes lidar acquisition, calibration, classification, hydro flattening and final deliveries. Additionally, 140 NVA and VVA check points were captured in accordance with requirements to document spatial accuracy. Deliveries include: Raw Point Cloud Data, Classified Point Cloud, Bare Earth Surface (Raster DEM), Breaklines, Intensity Image, Control, Metadata, Project Report, Acquisition Reports, and Project Pilot.
- **NRCS and FEMA / Brawley Rillito, AZ, Lidar, 2019 –** The project area included approximately 2,232 square miles of Southern Arizona including Coronado National Forest, and was conducted in cooperation with USGS, NRCS and FEMA. The scope required lidar data to be collected and processed in accordance with FEMA and USGS specifications. The scope of services included lidar acquisition, calibration, classification, hydro flattening and final deliveries. Additionally, 135 NVA and VVA check points were captured in accordance with requirements to document spatial accuracy.
- The deliveries included: Raw Point Cloud Data, Classified Point Cloud, Bare Earth Surface (Raster DEM), Breaklines, Intensity Image, Control, Metadata, Project Report, Acquisition Reports, and Project Pilot.

Firm name	The Sanborn Map Company, Inc.		Discipline(s)*	Survey	
Project name	Indiana Statewide Orthoimagery Program			Firm responsibility (prime or sub?)	Prime
Project number	051974	Owner's name	Indiana Geographic Information Office		
Project location	State of Indiana		Owner's Project Manager	Mr. Shaun Scholer, GISP, GIS Program Director	
Owner's address, phone, email	100 N. Senate Avenue, Room N551, Indianapolis, IN 46204 (317) 414-0889, sscholer@iot.in.gov				
Services commenced by this firm (mm/yy)	01/21	Total consultant contract cost ($1,000's)		2,055	
Services completed by this firm (mm/yy)	12/24	Cost of consultant services provided by this firm ($1,000's)		2,055	

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

In Spring of 2021, the State contracted with Sanborn with the goal is to acquire 6in imagery for the entire state within a four-year program. The schedule requires approximately one-third of the state to be flown per year in an ongoing rotation:

- Year one (2021): tier one, central
- Year two (2022): tier two, eastern
- Year three (2023): tier three, western

Project Scope

- The project encompasses the entire land area of the State of Indiana, approximately 36,418 square miles. The entire perimeter of the State is buffered by at least 2500 feet. The border with the State of Illinois along the Wabash River, and the State of Kentucky along the Ohio River is buffered a minimum distance of 1,000 feet or to the opposite riverbank, whichever distance is greater. Border areas of the State proximate to Lake Michigan (Lake, Porter and LaPorte counties) are buffered beyond the shoreline a minimum distance of 2,500 feet. In addition to these dimensions, data coverage extends to the geographic extents of the delivery tile grid, so that no "No-Data" areas exist in any source or final data product.
- The required base orthoimagery product is 6-inch pixel resolution. The State and participating counties, cities/towns, and others have the option to improve the resolution to 3-inch by adding funds to cover the additional costs.
- All deliverables under this project are referenced to the North American Datum of 1983 (NAD83) using the latest HARN adjustment, and the North American Vertical Datum of 1988 (NAVD88) with the latest ellipsoid and geoid adjustments. Products are delivered by County in the appropriate Indiana State Plane East or West zone: NAD83/HARN, US Survey Feet (EPSG Codes 2967 [east] or 2968 [west]) defined for each County.

Firm name	The Sanborn Map Company, Inc.		Discipline(s)*	Survey	
Project name	Orange County Property Appraiser, FL Orthos			Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Orange County Property Appraiser (OCPA)		
Project location	Orange County, FL		Owner's Project Manager	Mr. Kirt Thomas, CCF, CFE, Senior Cadastral Mapper	
Owner's address, phone, email	200 S. Orange Ave. Suite 1700, Orlando, FL 32801 (407) 836-5906 kthomas@ocpafl.org				
Services commenced by this firm (mm/yy)	12/19	Total consultant contract cost ($1,000's)	1,778		
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm ($1,000's)	1,778		

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

Sanborn was contracted to acquire 249 square miles of 6-inch and 900 square miles of 3-inch 4-band (Red, Green, Blue, Near-Infrared) orthoimagery for the Orange County Property Appraiser (OCPA). The area covering approximately 1,153 square miles was to support property assessment. Scheduling was critical for the yearly assessment and revenue generation, and Sanborn met all critical delivery dates.

Project Background

In the winter of 2019, the OCPA initiated an update to their comprehensive, countywide digital orthoimagery mapping program to support the development and analysis of the tax rolls and local government mapping initiatives. The project also included the addition of an area covering the Reedy Creek Improvement District (RCID), which is the immediate governing jurisdiction for the land of the Walt Disney World Resort. OCPA initiated another update to the orthoimagery program in 2021, 2022, and 2023. OCPA initiated another collection for 2024 and added 3-inch and 6-inch oblique and orthoimagery along with 8 pts/m^2 lidar.

Project Scope

Sanborn is responsible for the acquisition of imagery, ground control survey, aerial triangulation and manual stereo-compilation of masspoints, and breaklines to produce a new Digital Terrain Model (DTM) throughout the entire County to support either 3-inch or 6-inch digital orthophotography.

The project adhered to all requirements and specifications for the Florida Department of Revenue (FDOR).

The project deliverables are as follows:

- 1,568 tiles (4,000' X 4,000') of 3-inch imagery,434 tiles (4,000' X 4,000') of 6-inch imagery, 8-bit 4-band (Red, Green, Blue, Near-Infrared) orthoimagery in GeoTiff, MrSID and ECW formats
- Newly developed DTM
- FGDC-compliant metadata
- Reedy Creek Improvement District (RCID) area-wide MrSID
- 3-inch and 6-inch oblique imagery via Sanborn Oblique Analyst®
- Updated building outlines
- 8 pts/m^2 lidar: Classified lidar, Intensity images, First-return DSM, Bare-earth DEM and hydroflattening breaklines

Firm name	The Sanborn Map Company, Inc.		Discipline(s)*	Survey	
Project name	Arkansas Statewide Orthoimagery Program			Firm responsibility (prime or sub?)	Prime
Project number	4600039554	Owner's name	State of Arkansas		
Project location	State of Arkansas		Owner's Project Manager	Mr. Shelby D. Johnson, Geographic Information Officer	
Owner's address, phone, email	Arkansas GIS Office, 1 Capitol Mall Ste 6D, Little Rock, AR 72201 (501) 682-2943 shelby.johnson@arkansas.gov				
Services commenced by this firm (mm/yy)	01/17	Total consultant contract cost ($1,000's)		2,400	
Services completed by this firm (mm/yy)	01/24	Cost of consultant services provided by this firm ($1,000's)		2,400	

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

The project includes the acquisition and processing of new 4-band (Red, Green, Blue, Near-Infrared) of orthoimagery throughout the State of Arkansas at 1-foot (30cm) resolution (approximately 54,000 square miles of coverage). In the first year of the contract (2017), the State opted to obtain an additional 3,498 square miles of imagery upgraded to 6-inch (15cm) resolution for select urbanized areas.

Project Background

In the fall of 2016, the Office of State Procurement (OSP) on behalf of the Arkansas Geographic Information Systems (GIS) office issued a Request for Proposal to obtain a qualified vendor to provide aerial orthoimagery services. Sanborn was evaluated as the most qualified and experienced responder and entered into a one-year contract with six (6) optional one-year terms to provide mapping services throughout the State. The State contracted to have Sanborn acquire a complete refresh of the imagery in 2023.

Project Scope

Sanborn is responsible for all aspects of new orthoimagery production, including:

- 4-band (Red, Green, Blue, Near-Infrared) 8-bit per channel imagery acquisition
- Imagery acquisition supported by ground control survey and Airborne GPS
- Aerial Triangulation
- Update of existing or development of a new Digital Elevation Model (DEM)
- Imagery rectification
- Mosaicking and final orthoimagery tile extractions

Sanborn's team supplied five aircraft and sensors, which enabled the Sanborn team to successfully acquire all imagery in one flying season, despite the fact that the State experienced an early spring in 2017 and leaf out conditions began in late February/early March. UltraCam Eagle imagery sensors were utilized to acquire the imagery at altitudes to support development of 1-foot (30 cm) resolution imagery statewide and 6-inch (15 cm) orthoimagery for select urban areas (3,498 square miles). All products for 2017 were completed and delivered to the state by December 31, 2017.

All products contracted in 2023 were delivered to the State by the end of 2023.

Firm name	The Sanborn Map Company, Inc.		Discipline(s)*	Survey	
Project name	IDIQ Contract for Lidar and Photogrammetry Support			Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	State of Louisiana, Department of Transportation & Development Section 30, Location and Survey		
Project location	Greater New Orleans		Owner's Project Manager	Kurt Johnson, Remote Sensing and GIS Manager	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, La. 70802 – 4438, Kurt.Johnson@LA.gov				
Services commenced by this firm (mm/yy)	11/21		Total consultant contract cost ($1,000's)	642	
Services completed by this firm (mm/yy)	07/23		Cost of consultant services provided by this firm ($1,000's)	642	

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

LADOTD contracted Sanborn to perform aerial LiDAR acquisition and processing over a 2,800 square mile area covering New Orleans and surrounding parishes. Sanborn used Leica Terrain Mapper LiDAR sensors mounted on its fleet of fixed-wing Piper Navajo aircraft. To reduce weather-related risks and ensure acquisition efficiency, Sanborn deployed two aircraft and sensor systems, completing the project in just five working days. Data acquisition occurred from November 11 to November 19, 2021, during optimal leaf-off, low-water conditions. Sanborn partnered with EMC Surveying, who provided GNSS-based ground control and checkpoints to ensure survey-grade accuracy.

The LiDAR data underwent boresight calibration, trajectory refinement, and classification to LAS 1.4 format, with features such as ground, vegetation, buildings, and water accurately represented. Sanborn extracted hydrographic breaklines, which were conflated with the LiDAR-derived terrain and refined using monotonicity constraints to support hydrologic modeling. Rigorous QA/QC processes aligned with USGS and ASPRS standards were implemented throughout the production workflow. Following internal and USGS review, the dataset was officially accepted in June 2024.

This project provided LADOTD with a high-accuracy 3D topographic dataset critical for flood modeling, infrastructure design, and environmental analysis. The deliverables support FEMA floodplain mapping, levee and stormwater infrastructure planning, and resilience assessments. Sanborn's integrated QA/QC procedures, combined with EMC's control survey expertise, ensured timely delivery and federal acceptance. The successful execution of this project underscores the value of pairing advanced LiDAR technology with trusted local survey partnerships to meet strict state and federal mapping standards.

Firm name	**Tetra Tech**	Discipline(s)*	Survey
Project name	Blue River, CO Topobathy	Firm responsibility (prime or sub?)	Sub
Project number	# 027.0000025250	Owner's name	Verdantas
Project location	Blue River Colorado	Owner's Project Manager	Chad Morris
Owner's address, phone, email	315 West Oak St., Suite 620, Fort Collins, CO 80521; cmorris@verdantas.com; C: 970-294-5242; O**:** 970-852-6036		
Services commenced by this firm (mm/yy)	09-2024	Total consultant contract cost ($1,000's)	$45,
Services completed by this firm (mm/yy)	07- 2025	Cost of consultant services provided by this firm ($1,000's)	$45,

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

In September of 2024, Tetra Tech Inc. utilized its newly acquired Coastal Zone Mapping Imaging LiDAR (CZMIL) SuperNova, an advanced topobathymetric LiDAR system ideal for both shallow (nearshore) and deep bathymetric mapping to accomplish this project. The CZMIL SuperNova is equipped with nine total scanner channels – 7 "Shallow" Green (532 nm) channels, 1 "Deep" Green channel, and 1 IR (1064 nm) channel to create a seamless model from co-acquired topographic and bathymetric LiDAR data. One of the most important components of any hydrographic survey is data coverage. This includes sufficient density, depth penetration, and data completeness. The CZMIL SuperNova is a complete topobathymetric LiDAR solution capable of obtaining these results better and more efficiently than many other systems on the market. This system can reach a maximum depth of 4.4 Kd, or ~3.5x Secchi with the Deep channel (2.9 Kd for the Shallow channels), which means it is designed well to map bathymetry at great depths. While this project area was not particularly deep, the CZMIL's powerful green laser can perform well even in relatively turbid waters, thus increasing the likelihood of bottom detection. Furthermore, the system's Shallow channels have a shorter pulse length than the Deep channel, thus allowing for better discrimination between the water surface and bathymetric bottom as well as high point density in shallow environments. This means the CZMIL can offer the best of both worlds: depth penetration and density, which is unmatched by any singular topobathymetric sensor on the market. With the addition of its IR channel, this system is an all-inclusive solution in terms of obtaining a seamless model extending from land to river bottom. In terms of accuracy, the CZMIL SuperNova produces data that can meet IHO S-44 Special Order standards for vertical accuracy and feature detection. Additionally, the topographic mapping capabilities can meet USGS QL1 standards for density and accuracy, further exemplifying its ability to produce a complete solution for both topographic and bathymetric environments.

Staff- Ben Babble, Daira Brayley

Firm name	**Whiteout Solutions**		Discipline(s)*	Survey	
Project name	ACE Basin, South Carolina Salt Marsh Survey		Firm responsibility (prime or sub?)		Prime
Project number	49601367	Owner's name	Andrew Johnson		
Project location	Bear Island National Management Area, South Carolina		Owner's Project Manager	Andrew Johnson	
Owner's address, phone, email	Center for Conservation Media Cornell Lab of Ornithology 159 Sapsucker Woods Road, Ithaca, NY				
Services commenced by this firm (mm/yy)	10/2023		Total consultant contract cost ($1,000's)		21.5
Services completed by this firm (mm/yy)	1/2024		Cost of consultant services provided by this firm ($1,000's)		21.5

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

Whiteout Solutions was contracted by Cornell University, US Fish & Wildlife and South Carolina DNR to collect LiDAR and multispectral imagery of roughly 400 acres across nine distinct coastal marsh sites in South Carolina. The project was in support of restoration efforts in the ACE Basin to support wetlands and Eastern Black Rail habitats. Specifically tracking the effects of water management and their precise levels in the high marsh.

Key Professional Services

- Topographic Lidar
- Multispectral Imagery
- Data Processing & Analysis
- ASPRS Classified Point Cloud

Staff- Matthew Clark

Firm name	EMC, Incorporated of MS		Discipline(s)*	Data Collection, Planning, ROW and Survey Other (Boundary, Topographic)	
Project name	Legal Boundary Surveys for NRCS ACEP - WRE, Tensas and Concordia Parishes, Louisiana		Firm responsibility (prime or sub?)	Prime Contractor	
Project number	12FPC323F0141	Owner's name	USDA – NRCS Louisiana State Office		
Project location	Tensas and Cordia Parishes, LA		Owner's Project Manager	Dustin Farmer	
Owner's address, phone, email	Address: 3737 Government St., Alexandria, LA 71302		Phone: (318) 473-7773	Email: Dustin.Farmer@usda.gov	
Services commenced by this firm (mm/yy)	08/23		Total consultant contract cost ($1,000's)	$91.4	
Services completed by this firm (mm/yy)	11/23		Cost of consultant services provided by this firm ($1,000's)	$91.4	

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

EMC was tasked with performing surveys for the Wetlands Reserve Easements Project. This task involved conducting legal boundary surveys within two parishes in Louisiana totaling 347 acres. It required setting approximately 82 monuments and NRCS witness post signage. Monuments of 2-1/2" aluminum caps set on 5/8" x 24" rebar were set under this task order at each boundary corner except where found monuments existed and were held. Photo documentation was taken of each monument and witness post set. EMC initiated the project with courthouse research to establish ownership and reference points. Prior to fieldwork, a collaborative meeting with NRCS and the landowner clarified the purpose and expectations of the easement. This collaborative meeting was recorded and documented by the field supervisor to ensure clarity and alignment among all stakeholders. The meeting outcomes, along with all compiled title information and clear instructions for the next steps, were provided to the field crew. Field crews established project control points and utilized Trimble GPS and Total Station equipment to collect cadastral data. Findings were submitted to EMC's office operations daily for processing in Trimble Business Center. This data underwent processing using Trimble Business Center (TBC) and was evaluated by our Professional Land Surveyors. They compared the data relative to the recorded evidence and made determinations regarding whether the corner was "held" or not. Once property lines were established, office personnel designed the easement boundary using various software programs. The preliminary submission, including detailed plats and legal descriptions, were reviewed, and approved by NRCS before setting easement boundary monuments and installing signage. Through effective project management, EMC successfully completed the task order within the designated period, delivering high-quality results to NRCS. Deliverables included AutoCAD files, PDF Plats, KML files, a Survey Report, Coordinate List, Legal Descriptions, and Shapefiles.

Since 2009, EMC has held a contract with the NRCS of Louisiana. During this time our firm has successfully completed over 244 legal easement boundary surveys for the NRCS. All of the projects were similar in scope to this one that is provided as an example.

Staff: Josh Mattox, William Gray, Melvin Greene, Kevin Martin, Brantley Shaw, Cutter Petty

Firm name	EMC, Incorporated of MS		Discipline(s)*	Data Collection, Planning, ROW and Survey Other: (Boundary)	
Project name	**Fort Johnson Boundary Survey**		Firm responsibility (prime or sub?)	Prime	
Project number	W912G24F0237	Owner's name	USACE Fort Worth, District		
Project location	Vernon Parish, LA		Owner's Project Manager	Stephen C. Corley	
Owner's address, phone, email	Address: 819 Taylor Street, Fort Worth, TX Phone: (817) 886-1494 Email: Steve.C.Corley@usace.army.mil				
Services commenced by this firm (mm/yy)	06/24	Total consultant contract cost ($1,000's)		$81.4	
Services completed by this firm (mm/yy)	07/24	Cost of consultant services provided by this firm ($1,000's)		$81.4	

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

To begin the survey, EMC, Inc. set a control point and check point and performed static GPS data collection for processing through NGS OPUS, which supplied the positions for the final project control. RTK GPS was used from these positions to collect topographic and boundary survey data. After control establishment, Initial survey efforts were directed towards boundary recon. Field files were submitted daily throughout the data collection to our offices for post-processing, mapping and updating needs from the field crews. Plotted boundaries were adjusted to found monumentation as data was submitted to create updated "look" points for field crews. Boundary recon surveys recovered several record monuments which fit well with record documents provided by the title documents. The few corners not found were computed by proration between found monuments. Stake locations were provided to field crews and all field efforts concluded on July 7, 2024. Processing of data and subsequent mapping efforts were performed daily to keep up with field crew collection. Boundary mapping was performed by the CADD team and the Registered Professional Land Surveyor. Concerning tract 565, our team found the record description of the tract. The record called to start from the Southwest corner of the Southwest quarter of the Southeast quarter of Section 15, Township 4 North, Range 8 West. We recovered this monument along with both the Southwest and Southeast corners of said Section 15, which verified its placement. From the point we followed the record calls and found additional pipes at or near the corners. We held the found Section corners and record Point of Commencement as well as a found iron pipe at the Northeast corner of the tract. Remaining corners were established from a proration of the record calls on-line between found monuments breaking down the quarter Section. Concerning tract 565-1, the record descriptions were all aliquot in nature. The tract bounds consisted of the Southeast quarter of the Southeast quarter of Section 15, the Southwest quarter of the Southwest quarter of Section 14 and the Southeast quarter of the Southwest quarter of Section 14, all in Township 4 North, Range 8 West. We recovered all four Section corners of Section 14. As stated above we recovered the South line of Section 15 as well as three of the four corners of the Southeast quarter of the Southeast quarter of Section 15. We also recovered several monuments within the Sections breaking down the quarters and quarter-quarters. We disregarded monuments that fell offline and were in apparent error. These monuments are still shown on the map with applicable offsets to computed boundary lines. Requested type G monuments were set all boundary corners that were not present. POT monuments were set at approximate 330' intervals, as close to intervisible as the terrain would allow. The POT monuments were 5/8" x 36" rebar and 3 ¼" Aluminum caps. All marks were witnessed by a carsonite post.

Staff: Josh Mattox, William Gray, Michael Cook, Melvin Green, David Tubbs, James Pettigrew, William Gross, Jason Hill, Kevin Martin

18. Approach and Methodology:

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

Sanborn understands that the success of LaDOTD's Statewide Topographic Mapping Program depends on a clear, practical, and proven approach. Our methodology is built to deliver accuracy, consistency, and compatibility with LaDOTD's standards while reducing program risk. We are already a trusted partner to LaDOTD, currently providing On-Site Lidar and GIS Support and having recently completed the previous IDIQ contract for these same services. This continuity gives Sanborn a strong foundation to anticipate LaDOTD's requirements, respond quickly to task orders, and provide deliverables that integrate seamlessly into existing workflows and systems. Joining our team are **Tetra Tech**, contributing nationally recognized hydrographic and bathymetric expertise; **Whiteout Solutions**, a woman-owned small business, streamlining data integration and cloud-based workflows as well as drone and helicopter based bathymetric Lidar collection and production; and **EMC Surveying**, bringing proven regional experience in control, topographic, and hydrographic surveys. Together, these partners provide LaDOTD with comprehensive capabilities spanning bathymetric, terrestrial, and data management domains.

Tetra Tech delivers complex hydrographic, geophysical, and oceanographic survey services, from shallow waters under 1 meter to ocean depths over 5,000 meters, using tools like topo bathymetric lidar and underwater imagery, which they often process on site to accelerate decision-making. Their successful deployment of the Teledyne Optech CZMIL SuperNova system for NOAA's Great Lakes mapping project achieved roughly five points per square meter in bathymetric bottom density and an impressive **89 % bottom coverage**, showcasing their technical leadership in coastal and aquatic terrain modeling.

Whiteout Solutions automates geospatial data workflows across everything from lidar and topo bathymetric capture to processing and delivery, using cloud-based pipelines to make complex datasets easily accessible and actionable. Their aerial and terrestrial data acquisition capabilities extend to high-resolution topobathy lidar via UAS and Helicopter utilizing a Riegl system, enabling rapid and accurate surveys of coastlines, rivers, lakes, and infrastructure sites. Meanwhile, geoSAP offers scalable, web-based storage and visualization for multi-terabyte 3D point clouds, imagery, and vector data.

EMC is a southeast surveying firm that has performed thousands of traditional and hydrographic surveys for federal, state, and local government entities, as well as various private and public companies, including multiple projects throughout Louisiana for USACE New Orleans District and other customers. Their topographic and control equipment includes 3D Terrestrial Scanning (RIEGL VZ-400), 3D Mobile Lidar (RIEGLVMX-450), robotic total stations (Trimble S6), data collectors (Trimble TSE3-2), Trimble GPS Systems (R10, R8 and R6 GNSS), ground-penetrating radar (GPR), (Noggin) laser range finders and first-order levels and theodolites. EMC's hydrographic

equipment includes 8’ to 32’ survey boats and other vehicles. All of EMC’s survey vessels can perform dual or single frequency soundings, multi-beam (Reson 7101, 7125 & T20-P), side scan, or sub-bottom profile surveys.

18.1 Scope of Services

Sanborn’s scope of services covers the complete lifecycle of mapping projects. We will establish and certify survey control, acquire and process four-band digital imagery, perform Quality Level 1 Lidar acquisition and processing, and deliver fully integrated mapping products. Each task order will be planned in close collaboration with LaDOTD to ensure that priorities such as roadway safety, floodplain analysis, asset inventory, and design support are addressed. This contract also provides LaDOTD with flexibility. Some task orders may require imagery only, others may focus on lidar, while many will combine datasets. Sanborn’s ability to mobilize multiple aircraft and sensors at the same time allows us to cover large areas quickly and adapt to seasonal or weather constraints. Because our assets are wholly owned, we are not dependent on third-party scheduling, giving LaDOTD confidence that mission timing will align with state priorities.

18.2 Topographic Mapping – Ground Control

Ground control is foundational to mapping accuracy. EMC, a southeast-based surveying firm, will lead this effort. EMC will establish Ground Control Points (GCPs), Non-Vegetated Vertical Accuracy (NVA) points, and Vegetated Vertical Accuracy (VVA) points across each project’s area of interest, following LaDOTD-provided .kmz/.kml files. All control surveys will be conducted with survey-grade GPS and under the direct supervision of a Louisiana-licensed PLS. Deliverables from control surveys will include photographs of each point, tabular coordinate data in both geographic and State Plane formats, and surveyor’s certification reports consistent with USGS Lidar Base Specifications. EMC will also establish GPS base stations to support aerial operations, logging data before, during, and after flights. Beyond ground control, EMC adds value with its RIEGL VMX Mobile Lidar System. This capability allows LaDOTD to obtain dense corridor data along highways, bridges, and urban environments where aerial lidar may be obstructed or where supplemental terrestrial capture strengthens the dataset. By combining aerial and mobile lidar, Sanborn and EMC provide LaDOTD with complete spatial coverage that enhances project reliability.

18.3 Topographic Mapping – Imagery

Sanborn will acquire high-resolution imagery with our wholly owned Piper Navajo and Aero Commander aircraft. Each aircraft is instrumented with Sanborn’s Hexagon DMC 4X and Vexcel UltraCam Eagle MKIII large-format digital cameras, both of which are wholly owned. These sensors achieve a three-inch ground sample distance (GSD) and capture four spectral bands (RGB/NIR), meeting LaDOTD’s requirements for both topographic mapping and environmental analysis. The sensors are capable of meeting a one-inch GSD if required. Flight planning is a critical step. Sanborn uses advanced mission planning software to design flight lines that ensure consistent coverage, minimize sidelap gaps, and optimize sun angle. Imagery will be collected only in clear-sky conditions, with sun angles greater than 30 degrees, and during leaf-off seasons. Weather conditions are monitored continuously during flight to optimize quality and collection efficiency. This process maximizes the visibility of ground features such as pavements, bridges, culverts, and drainage systems. Imagery will be processed in NAD83 (2011) and NAVD88 with the latest geoid model. We will produce seamless ortho-rectified mosaics that are tone-balanced and uniform in contrast. Deliverables will be tiled to the United States National Grid (USNG) and delivered in GeoTIFF format, ensuring consistency with LaDOTD standards. Horizontal accuracy will meet or exceed ASPRS specifications for the given GSD, providing LaDOTD with dependable imagery products for planning and design.

18.4 Topographic Mapping – Lidar

Sanborn operates a fleet of wholly owned lidar systems, including the RIEGL VQ-1560II, the Avalanche Photon-Counting Lidar, and the Leica TerrainMapper integrated imagery/lidar platform. Importantly, deliverables from our RIEGL VQ-1560II sensor are fully compatible with LaDOTD’s RIEGL VQ-1460 system, meaning that our products integrate seamlessly into LaDOTD’s existing workflows without additional processing.

Our lidar workflow begins with mission planning and calibration, followed by QL1 collection under favorable weather and water conditions. Sanborn performs immediate quality checks to validate coverage, GNSS/IMU solutions, and flight line consistency. Any gaps identified are reflown promptly. Data is then classified using automated routines and verified manually to meet USGS 3DEP and ASPRS standards. Deliverables include raw and classified point clouds, bare-earth raster DEMs, hydrographic and bridge breaklines, intensity imagery, tile indexes, metadata, and project reports. By combining these products, LaDOTD can support roadway design, floodplain modeling, environmental compliance, and asset management.

For bathymetric lidar, Sanborn partners with Tetra Tech and Whiteout. Tetra Tech deploys the Teledyne Optech CZMIL SuperNova system, one of the most advanced topobathy sensors available. This system captures both topographic and shallow-water bathymetric data in a single pass, delivering reliable coverage across rivers, lakes, wetlands, and coastal zones. Whiteout provides additional bathymetric operations and processing expertise with drone and helicopter systems, ensuring data quality in challenging environments. Together, these partners give LaDOTD world-class bathymetric mapping capacity. Sanborn's sensor fleet now includes the **Avalanche Lidar**, a new capability specifically for advanced topographic mapping. This technology uses highly sensitive single-photon detectors to capture high-density 3D data. Unlike traditional linear-mode lidar, Avalanche can detect individual photon returns, allowing for **very high-altitude and wide-area collection** at lower laser power. This makes it an efficient solution for large-scale mapping projects, enabling **rapid data acquisition with high point densities** even under challenging conditions such as low light or partial canopy cover.

18.5 Aerotriangulation and Orientation

Sanborn’s aerotriangulation process uses industry-standard software to tie imagery and lidar to ground control. GNSS/IMU calibration is validated before production, and control points are weighted appropriately during adjustments. Results are reported in both localized and grid coordinate systems, providing LaDOTD with flexibility for mapping and design workflows. Calibration and certification reports will be delivered before mapping, ensuring LaDOTD’s engineers have confidence in positional accuracy before downstream work begins.

18.6 Quality Assurance and Quality Control

Sanborn will implement a formal QA/QC program aligned with LaDOTD’s requirements. Within ten business days of award, we will submit a QA/QC plan to the LaDOTD Project Manager. Our QA/QC process includes independent verification by senior staff, contour and vector overlays to identify anomalies, automated error detection routines, and documentation of obscured or uncertain areas. Each deliverable will be accompanied by LaDOTD’s QA/QC checklist and a certification that the data meets or exceeds standards. In addition, Sanborn requires sub-consultants EMC, Tetra Tech, and Whiteout to adhere to the same QA/QC framework, ensuring consistency across all project tasks.

18.7 Deliverables

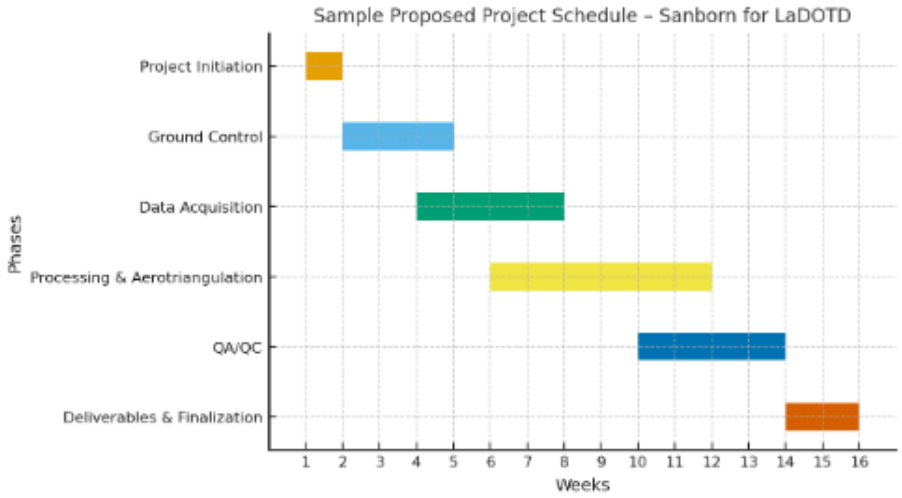
Final products will be prepared in compliance with LaDOTD’s Location and Survey Manual, ASPRS standards, and USGS 3DEP specifications. Deliverables will include surveyor’s certification of ground control, orthoimagery in GeoTIFF format tiled to the client's specified tile grid, classified lidar point clouds in LAS format, bare-earth DEMs, hydrographic and bridge breaklines, intensity imagery, tile indexes, FGDC/USGS-compliant metadata, and acquisition and project reports. Because Sanborn’s RIEGL VQ-1560II system outputs are fully compatible with LaDOTD’s RIEGL VQ-1460 system, data integration into LaDOTD’s databases is seamless, eliminating processing delays and reducing project risk.

18.8 Equipment and Personnel

Sanborn’s acquisition capability is built entirely on wholly owned aircraft and sensors. Our fleet includes Cessna, Piper Navajo, Aero Commander, and King Air aircraft, Hexagon DMC 4X, Vexcel UltraCam Eagle, and Osprey (oblique) digital cameras, and lidar systems including the RIEGL VQ-1560II, Avalanche Photon-Counting Lidar, and Leica TerrainMapper integrated platform. Direct ownership enables LaDOTD to benefit from greater scheduling flexibility, reduced costs, and minimized risk compared to providers reliant on leased assets. EMC, a southeast-based firm,

strengthens our team with Louisiana-licensed surveyors, certified ground control services, and its RIEGL VMX Mobile Lidar system, which adds precision terrestrial coverage where needed. Tetra Tech contributes its Teledyne Optech CZMIL SuperNova bathymetric lidar system, while Whiteout provides additional bathymetric operations and processing expertise. Collectively, the Sanborn team meets all LaDOTD Minimum Personnel Requirements, including ASPRS Certified Photogrammetrists, ASPRS Certified Mapping Scientists for Lidar, bathymetric lidar specialists, Louisiana-licensed PLSs, and FAA-certified pilots. This integration of national capacity with regional expertise ensures LaDOTD has a responsive, highly qualified team.

18.9 Sample Proposed Project Schedule



The proposed project schedule illustrates Sanborn's streamlined workflow for a representative task order. Each phase flows logically from initiation to final delivery, with built-in overlap to accelerate progress where possible. Ground control is established early by EMC, while flight planning allows imagery and lidar collection to begin as soon as conditions permit. Processing, aero-triangulation, and QA/QC overlap with acquisition to compress delivery timelines. This structure enables Sanborn to deliver complete, LaDOTD-compliant products in approximately 16 weeks for a typical task order, with the flexibility to shorten the schedule when required by project priorities or seasonal windows. Because Sanborn wholly owns its aircraft and sensor systems, we control scheduling directly, giving LaDOTD confidence in both responsiveness and timely completion.

Conclusion

Sanborn's approach provides LaDOTD with a proven, risk-averse, and highly capable partner for statewide topographic mapping. LaDOTD benefits from direct control over scheduling, reduced costs, and guaranteed availability of resources from Sanborn ownership of all resources. Deliverables from Sanborn's RIEGL VQ-1560II are fully compatible with LaDOTD's RIEGL VQ-1460, ensuring seamless integration into existing workflows. Beyond technology, Sanborn's experience sets us apart. We are already embedded with LaDOTD through the current On-Site Lidar and GIS Support Contract and have successfully completed the previous IDIQ for wide-area mapping services. This continuity gives our team an unmatched understanding of LaDOTD's standards, expectations, and operating environment. Our sub-consultant partners expand this strength. EMC, a southeast-based firm, provides licensed survey expertise and adds the RIEGL VMX Mobile Lidar System for corridor and terrestrial mapping. Tetra Tech, with its Teledyne Optech CZMIL SuperNova bathymetric lidar, and Whiteout, with its operational expertise, deliver world-class topo-bathy mapping capacity. Together, the team offers LaDOTD comprehensive coverage from highways to shallow waters with the same level of precision and reliability. Sanborn's differentiators are clear: wholly owned assets, proven LaDOTD experience, seamless compatibility with existing systems, world-class partners, and a rigorous QA/QC program aligned with LaDOTD standards. These advantages ensure that LaDOTD receives not only accurate data, but also a trusted team that can deliver consistently, respond quickly, and innovate for the future.

19. Workload:

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

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

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.
List only the portion of the fees attributable to firms on the team.

Firm(s) **ALL FIRMS** MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
THE SANBORN MAP COMPANY, INC.	Survey	4400031875	DOTD GIS Support for Topographic Mapping	$2,706,000
TETRA TECH, INC.	Bridge	H.004647.6	1-20 Miss R. Bridge Geotechnical & Structural	$2,603,000
EMC, INCORPORATED OF MS	Choose an item.			N/A
WHITEOUT SOLUTIONS, INC.	Choose an item.			N/A
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			

(Add rows as needed) DO NOT SUM

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

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

20. <u>Certifications/Licenses:</u>

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

Name	Type	City	Status
THE SANBORN MAP COMPANY, INC.	Business Corporation (Non-Louisiana)	WILMINGTON	Active

Previous Names

Business: THE SANBORN MAP COMPANY, INC.
Charter Number: 35595261F
Registration Date: 11/20/2003

Domicile Address

1209 ORANGE ST.
WILMINGTON, DE 19801

Mailing Address

305 S. ROCKRIMMON BLVD., SUITE 200
COLORADO SPRINGS, CO 80918

Principal Business Office

305 S. ROCKRIMMON BLVD., SUITE 200
COLORADO SPRINGS, CO 80919

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

1011 N. CAUSEWAY BLVD., STE. 3
MANDEVILLE, LA 70471

Status

Status: **Active**
Annual Report Status: **In Good Standing**
Qualified: 11/20/2003
Last Report Filed: 10/21/2024
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: NATIONAL REGISTERED AGENTS, INC.
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816
Appointment Date: 2/10/2006

21. <u>QA/QC Plan:</u>

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

22. Sub-consultant information:

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 exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	**Address**	**Point of Contact and email address**	**Phone Number**
EMC, INCORPORATED OF MS	2472 Sunset Drive, Grenada, MS 38901	Joshua Mattox jmattox@emcsurvey.com	(o)662.226.5166 (m) 662.392.5877
TETRA TECH, INC.	Corporate- 3475 E. FOOTHILL BLVD. PASADENA, CA 91107 Local- 748 MAIN STREET, SUITE B BATON ROUGE, LA 70802	Renee Walmsley renee.walmsley@tetratech.com	(m) 925.584.0049
WHITEOUT SOLUTIONS, LLC	Corporate- 36 Eastern Ave. Suite 6 St. Johnsbury, VT 05819 Local- 201 Rue Beauregard, Ste. 202 Lafayette, LA 70508	Paul Burrows Pburrows@whiteoutsolutions.com	602.319.8573

(Add rows as needed)

23. Location:

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