

PROPOSAL

For Bathymetric and Stump
Identification Survey

University Lakes Project

Presented to:
University Lakes, LLC

November 20, 2020



C. H. Fenstermaker & Associates, L.L.C.

1. PROPOSER COVER SHEET (INCLUDE AS PART OF RESPONSE UNDER TAB 1)	
Section A Proposer Information	
Legal Name: C. H. Fenstermaker & Associates, L.L.C.	
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E-mail Address: travisb@fenstermaker.com	Web Site: https://www.fenstermaker.com/
CEO/Executive Officer: William H. Fenstermaker	Office Phone Number: (225) 344-6701
Chief Financial Officer: Matthew P. Manning, CPA	Office Phone Number: (225) 344-6701
Contact Person's Name: Angelle Guilbeau	Phone Number Including Area Code: (225) 344-6701
Mailing Address, City, State, Zip Code, Email: 445 North Blvd., Suite 650, Baton Rouge, LA, 70802 angelleg@fenstermaker.com	
Type of Entity (check all that apply) <input checked="" type="checkbox"/> Private-for-Profit Entity <input type="checkbox"/> Nonprofit	

Section B. Certification of Accuracy and Compliance

I do hereby certify that all facts, figures, and representations made in the Proposal Response(s) are true and correct. Furthermore, all applicable statutes, terms, conditions, regulations, and procedures for program compliance and fiscal control, including but not limited to, those contained in the Proposal Package will be implemented to ensure proper accountability of contracts. I have been duly authorized to act as the representative on this proposal.

Angelle Guilbeau

Print Authorized Official's Name



Authorized Official's Signature

Agent, Risk Manager

Authorized Official's Title

November 20, 2020

Date



Client Focused. Technology Driven.

November 20, 2020

University Lakes, LLC
LSU Real Estate and Facilities Foundation
C/O Leu Anne Lester Greco
3796 Nicholson Drive
Baton Rouge, LA 70802

VIA EMAIL
Lakesinfo@csrsinc.com

Re: University Lakes Project Bathymetric and Stump
Identification Survey
Letter of Transmittal

Dear Sir or Madam:

Fenstermaker is pleased to submit our proposal to provide surveying and related services to University Lakes, LLC (University Lakes) for the University Lakes Bathymetric and Stump Identification Survey project in the City of Baton Rouge. Our staff possesses the desired capabilities needed to assist University Lakes with all aspects of this contract. The revitalization efforts pursued by LSU Real Estate and Facilities Foundation in connection with the 2016 Master Plan are essential and excellent for the community and wildlife alike.

Our Team will provide University Lakes with the following benefits to ensure successful project completion:

- ✓ *Trusted Leadership*
- ✓ *70 years of surveying experience in Louisiana*
- ✓ *Expert survey teams with decades of combined experience*
- ✓ *Office location in downtown Baton Rouge*

Thank you for the opportunity to present our credentials and we look forward to hearing from you. If you have any questions regarding our submittal or qualifications, please do not hesitate to contact Travis Bodin at (337) 356-9548.

C. H. FENSTERMAKER & ASSOCIATES, L.L.C.

Travis Bodin, PLS, PMP
Vice President, Surveying & Mapping
travisb@fenstermaker.com

Angelle Guilbeau
Agent, Risk Manager
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Attachments

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Proposal

Bathymetric and Stump Identification Survey For University Lakes Project



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Lafayette, La 70508
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Baton Rouge, LA 70802
225.344.6701 phone
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Lake Charles
1 Lakeshore Drive, Suite 470
Lake Charles, LA 70629
337.237.2200 phone
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Shreveport
5100 Interstate Circle
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Shreveport, LA 71109
318.752.2290 phone
318.752.2297 fax

Mandeville
1502 West Causeway Approach
Suite C
Mandeville, LA 70471
504.858.8899

Houston
5005 Riverway, Suite 300
Houston, TX 77056
713.840.9995 phone
713.840.9997 fax

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5007 Old Sequin Road
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830.328-6304 phone

Midland
10004 W. County Road, 146
Midland, TX 79706

University Lakes, LLC
Bathymetric and Stump Identification Survey
For
University Lakes Project
Baton Rouge, LA
Request for Proposals

November 20, 2020

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Organizational Background and Overview

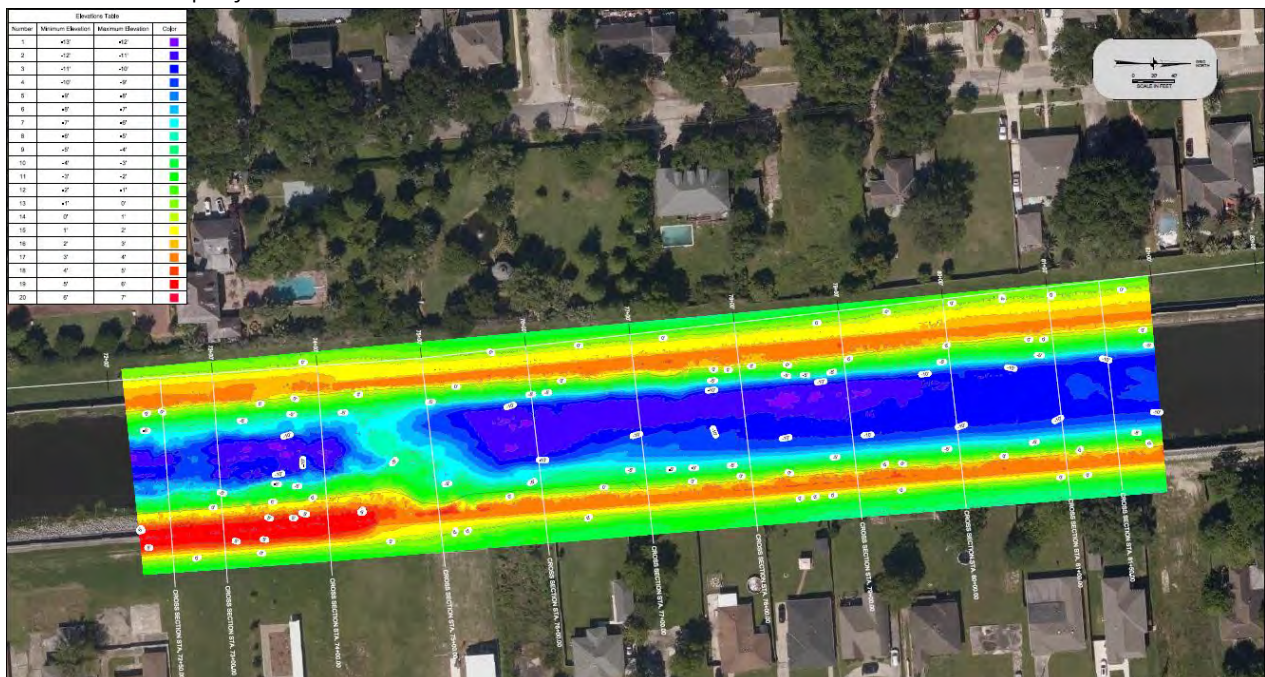
C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) has provided surveying, engineering, and environmental consulting services in south Louisiana for 70 years, with office locations in **Baton Rouge**, New Orleans, Lafayette, Lake Charles, Mandeville, and Shreveport, Louisiana. Fenstermaker is a recognized leader in coastal and hydrographic surveying services, including subsidence studies, topographic, photogrammetric, bathymetric and magnetometer surveys.

Fenstermaker's professional team includes nearly 300 personnel: **14 Professional Land Surveyors, 40 survey crews, numerous CADD technicians**, 21 Professional Engineers, 16 Environmental Specialists, 11 Construction Inspectors, and other support staff located at nine (9) locations across Louisiana and Texas.

Led by **Travis Bodin, PLS, PMP**, Fenstermaker's survey team has a 70-year history of providing professional surveying and mapping related services in Louisiana. Our firm is staffed by experienced personnel with extensive experience in **bathymetric, acoustic imaging, hydrographic, topographic, and geophysical surveys**, LIDAR, photogrammetry, subsidence surveys, unmanned aerial vehicles (UAV/Drone), property, boundary, and ROW/servitude surveys, existing site data, construction related surveys, and subsurface utility engineering surveys. Highlights of our various surveying capabilities and services include the following:

- **Bathymetric and Hydrographic Surveys**

Fenstermaker offers vast experience and the latest field data acquisition equipment available for conducting hydrographic surveys to determine shoreline contours and depths of rivers, lakes, streams, coastal waters, and other bodies of water within a project area. Bathymetric surveys record all water depths and tide variations, including high water elevations. Using sophisticated GPS, RTK GPS equipment, and multi-beam echo sounding equipment, the survey team delivers accurate, full color 3D surface models of the project area.



- **Topographic Surveys**

Fenstermaker provides a comprehensive range of surveying and mapping services. Much of our recent work includes survey transects along the Gulf shoreline, local topographic and volumetric surveys for use in engineering design of coastal restoration projects, subsidence surveys, and surveys of bank lines and existing topographical features. Depending on the project needs, we use two possible methodologies: point-based surveying or feature-based surveying. Fenstermaker understands the geography of Louisiana and its coastline, having surveyed almost every body of water in Louisiana.

- **Underwater Acoustic Imaging**

Until recently, the capability to perform underwater structural inspection was limited to the use of divers and robotic vehicles. These methods are less effective under conditions such as high current flow, low visibility, or with complex structural surfaces and dangerous environments. Fenstermaker's high-definition Underwater Acoustic Imaging (UAI) systems provide more efficient, accurate, and comprehensive inspections of underwater components. Utilizing an integrated remote sensing platform, this advanced technology can be used as an alternative or complement to traditional approaches. Data collection is more efficient, accurate, safer, and comprehensively reliable when defining existing conditions and assessing potential repair objectives. Our expert UAI team has decades of combined experience in underwater imaging and measurement systems, which allows us to provide unparalleled expertise in acoustic applications, data collection, analysis, and interpretation.



- **Sidescan Sonar Surveys**

Fenstermaker has performed numerous sidescan sonar surveys **to detect tree stumps**, pipelines, debris, boats or any other hazard to navigation lying on the water bottom. Fenstermaker's team is well equipped and has utilized a variety of different sonar technology that has been deployed in the Mississippi River, in shallow water and in deep water environments throughout Louisiana and many other states throughout the country. Our forward looking sidescan sonar works great in shallow water environments and provides the highest amount of detailed imagery of the water bottom.



- **Magnetometer Surveys**

Fenstermaker owns and operates EG&G Cesium Magnetometers to locate and trace existing subsurface pipelines accurately and to locate and map magnetic anomalies. Each year, Fenstermaker performs over 5,000 oil and gas related projects, most of which require the use of magnetometers. In most cases, pipelines are jet-probed to confirm their location and determine depth of cover.

This University Lakes Bathymetric and Stump Identification Survey is an excellent fit for our firm considering our skillset and project experience. Prior to the submittal of this proposal, we completed a site visit to assess the project area, took photographs, and collected information on existing site conditions. We are familiar with the area and understand the full scope of what is required to complete the requested services.

Firm Experience – Projects Completed

Lake Pontchartrain Shoreline Protection

Tangipahoa Parish, LA 2010

Fenstermaker was contracted by HDR Engineering, Inc., for topographic and hydrographic surveys of littoral and beach environments for the Lake Pontchartrain Shoreline Protection Project. The purpose of the survey was to gather enough data for the possible design of a parallel shoreline protection system along a portion of the Lake Pontchartrain shoreline to abate further shoreline erosion for the Tangipahoa Parish Government. Data collection consisted of a combination of topographic and hydrographic (ground elevations, water depths, and magnetometer) surveys. Side scan sonar and conventional surveying methods were utilized to detect stumps in preparation for construction activities along the shoreline. A preliminary Environmental Survey and an Archeological Avoidance Plan were also conducted along approximately 3.5 miles of the western shore of Lake Pontchartrain. Louisiana Universities Marine Consortium (LUMCON) monitoring station “Pontchartrain” was selected to monitor tidal fluctuations. The project area is located approximately 28 miles northwesterly of New Orleans, Louisiana in Tangipahoa Parish, along the northwestern shore of Lake Pontchartrain between Manchac Pass to the south and the mouth of the Tangipahoa River to the north.

Key Project Personnel

Travis Bodin, PLS, PMP
Justin Bordelon

Services

Topographic survey
Hydrographic survey
Sidescan sonar survey



Client References

Tangipahoa Parish Government
Maurice Jordan, P.E.
(985) 748-3211
tpcroad@tangipahoa.org

HDR Project Manager
Brett Geesey, P.E.
(337) 266-2342
Brett.Geesey@hdrinc.com

Proposal

Bathymetric and Stump Identification Survey For University Lakes Project



Firm Experience – Projects Completed

Post Hurricanes Laura & Delta Surveys – Port of Lake Charles

Calcasieu Parish, LA 2020

Fenstermaker was contracted by the Port of Lake Charles to perform a hydrographic survey at City Docks, Port Aggregate BT-4, and Bulk Terminal No.1 in response to the Hurricane Laura and Delta Events. Fenstermaker performed a sidescan sonar and a bathymetric survey to determine existing water bottom depths and to show any debris or hazards to navigation after the Hurricane Laura and Delta Events. The side scan sonar survey showed widespread debris, boats, and one sunken shrimp boat near the docks.

Client Reference

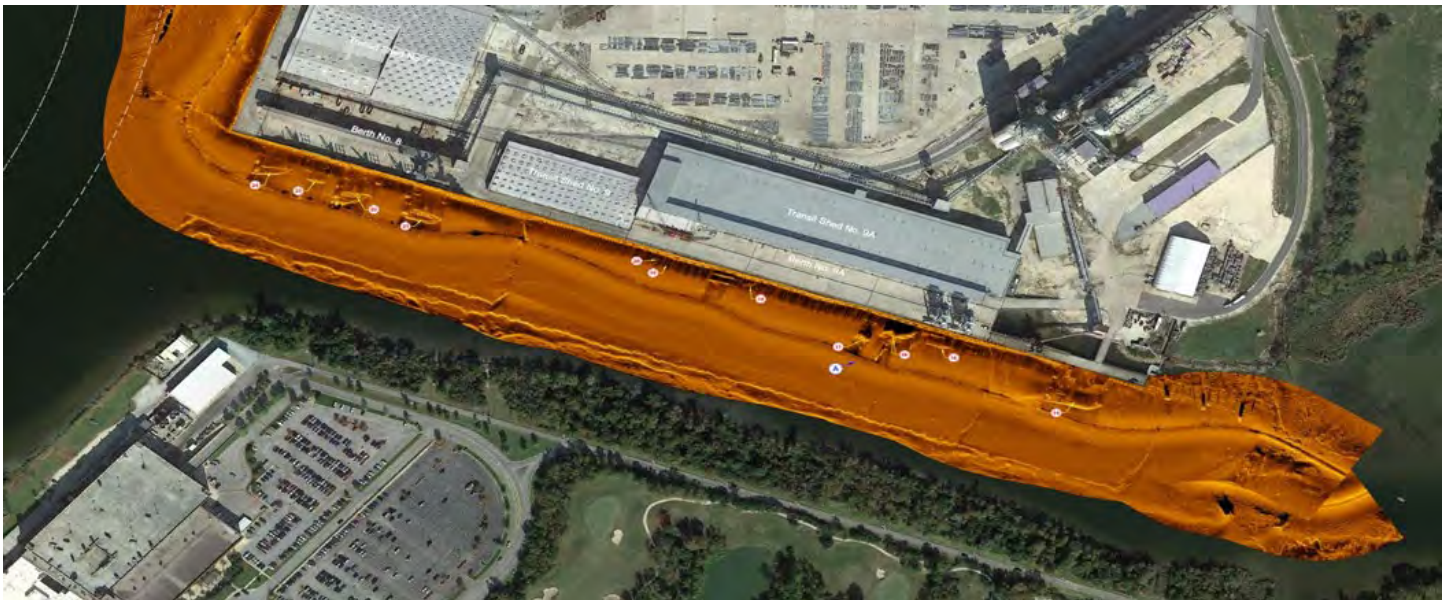
Nicholas Pestello
Director of Engineering
Port of Lake Charles
(337) 439-3661
npestello@portlc.com

Key Project Personnel

Travis Bodin, PLS, PMP
Justin Bordelon
Joe Broussard

Services

Hydrographic survey
Bathymetric survey
Sidescan sonar



Firm Experience – Projects Completed

Delacroix Marsh Creation Project (BS-0037)

St. Bernard Parish, LA 2020

The Coastal Protection and Restoration Authority's (CPRA) Delacroix Marsh Creation project will create and nourish approximately 406 acres of marsh and construct approximately 12,950 linear feet of terraces utilizing a layout that will protect the community of Delacroix. CPRA will dredge sediment from Lake Lery and place the sediment in two confined disposal areas creating 353 acres of marsh and nourishing 53 acres of existing marsh. To accomplish this goal, CPRA contracted Fenstermaker to perform bathymetric, topographic, magnetometer, side-scan sonar, and sub-bottom profile surveys within the proposed borrow and fill areas of Delacroix Island. Fenstermaker also completed topographic surveys of the marsh fill area and the conveyance pipeline corridor. Additional surveys included bathymetric and magnetometer surveys of the bayou, canals, and access routes.

Client Reference

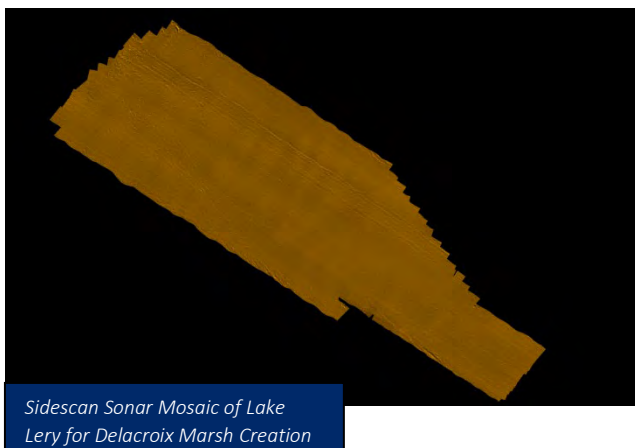
Jessica Diez, Project Manager
Coastal Protection and Restoration Authority (CPRA)
(225) 342-4177
jessica.diez@la.gov

Key Project Personnel

Travis Bodin, PLS, PMP
Justin Bordelon
Joe Broussard

Services

Bathymetric surveying
Topographic surveying
Sidescan sonar survey
Sub-bottom profile survey



Firm Experience – Projects Completed

Calcasieu Parish (HUC 8) Watershed Modeling & Planning

Calcasieu Parish, LA

Survey tasks ongoing

Fenstermaker was contracted by Calcasieu Parish Police Jury (CPPJ) to update its existing watershed models and to develop an adaptive master plan including projects, programs, and policies that allows the Parish to make informed decisions on managing their watersheds. Fenstermaker provided surveying services within the project area in support of the modeling efforts for the project. The survey task consisted of the collection of roadside ditch inverts, cross drains, high and low cords on existing bridge decks, and documentation of the existing conditions of the crossings.

Client Reference

Terry Frelot

Calcasieu Parish Police Jury

(337) 721-3700

tfrelot@cppj.net

Key Project Personnel

Travis Bodin, PLS, PMP

Justin Bordelon

Services

Topographic survey

Bathymetric survey

Aerial video footage



Proposal

Bathymetric and Stump Identification Survey For University Lakes Project



Firm Experience – Projects Completed

Cote Blanche Bay Site Investigation

St. Mary Parish, LA

2013

Fenstermaker was contracted by LaHaye Consulting to perform a remote sensing underwater hydrographic survey for Settoon Towing in West Cote Blanche Bay around and existing barge dock facility and along a prescribed corridor in support of construction activities. Approximately 53 sonar contacts were found along the prescribed corridor and 5 linear features indicating possible pipeline targets near the barge dock facility were observed during the survey.

Client Reference

Michael LeHaye

Settoon Towing C/O LeHaye Consulting

(337) 344-4222

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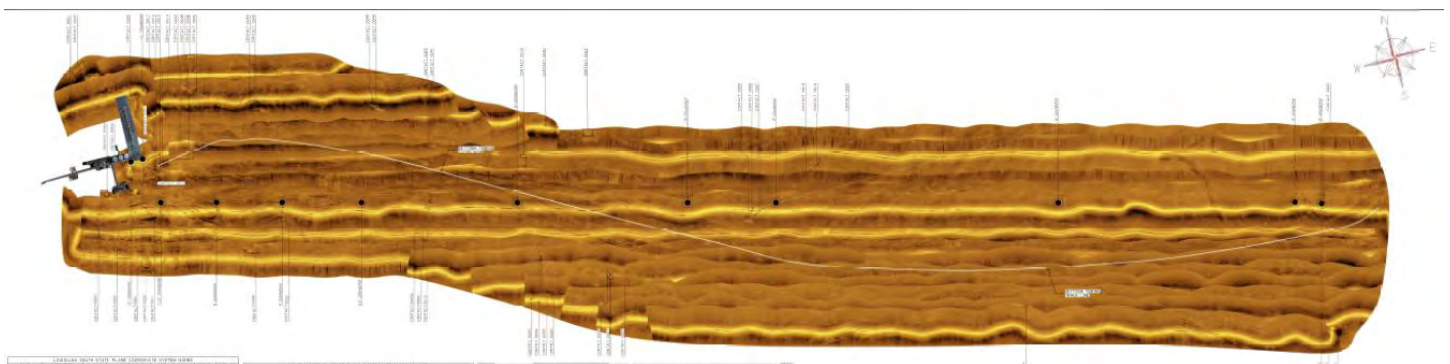
Key Project Personnel

Travis Bodin, PLS, PMP

Justin Bordelon

Services

Remote sensing underwater hydrographic survey



Key Staff Resumes



Travis Bodin, PLS, PMP

Vice President, Survey & Mapping

Travis Bodin, PLS, PMP currently serves as Fenstermaker's Vice President for Survey & Mapping and has 15 years of surveying, management, and coordination experience. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of digital terrain models (DTM), infrastructure documentation, GIS integration, and process and procedure development. Mr. Bodin will serve as **Principal/Professional in Charge** on this project.

EDUCATION

B.S., 2004, Industrial Technology, University of Louisiana at Lafayette

TRAINING & CERTIFICATIONS

2018, Project Management Professional, (PMI PMP No: 2269869, expires 03/08/2022)

2011, Professional Land Surveyor, PLS 5064 LA 03/31/2022

RELEVANT EXPERIENCE

Post Hurricane Laura & Delta Survey – Port of Lake Charles (Calcasieu Parish, LA): Fenstermaker performed a side scan sonar and a bathymetric survey to determine existing water bottom depths and to show any debris or hazards to navigation after the Hurricane Laura and Delta Events. Mr. Bodin served as Project Principal and Professional in Charge.

Delacroix Marsh Creation Project (BS-0037) (St. Bernard Parish, LA): Fenstermaker performed bathymetric, topographic, magnetometer, side-scan sonar, and sub-bottom profile surveys within the proposed borrow and fill areas of Delacroix Island. Mr. Bodin served as Project Principal and Professional in Charge.

Lake Pontchartrain Shoreline Protection (Tangipahoa Parish, LA): Fenstermaker was contracted by HDR Engineering, Inc., (HDR) for topographic and hydrographic surveys of littoral and beach environments for a Lake Pontchartrain Shoreline Protection Project. Mr. Bordelon assisted with project management, the hydrographic and topographic field surveys, and cursory environmental site investigation. Mr. Bodin served as Project Principal and Professional in Charge.

Cote Blanche Bay Site Investigation (St. Mary Parish, LA): Fenstermaker was contracted by LaHaye Consulting to perform a remote sensing underwater hydrographic survey for Settoon Towing in West Cote Blanche Bay around and existing barge dock facility and along a prescribed corridor in support of construction activities. Mr. Bordelon was the Project Manager, Lead Field Technician, and assisted in the data processing and deliverables for the Cote Blanche Bay Site Investigation Survey. Mr. Bodin served as Project Principal and Professional in Charge.

Key Staff Resumes



Keith Boeneke, PMP

Operations Leader, Environmental

Keith Boeneke, MBA, PMP will provide **Quality Assurance and Quality Control** support on the project. Mr. Boeneke has 28 years of professional consulting experience associated with the delivery of projects involving a wide variety of technical service areas. These include disaster recovery, environmental assessment and remediation, drainage improvement, coastal protection and restoration, grants management, monitoring and reporting, and technical assistance for state and local governments.

EDUCATION

MBA, 2000, Business Administration, Louisiana State University
B.S., 1994, Environmental Science, Louisiana State University

TRAINING & CERTIFICATIONS

2013, Project Management Professional (PMI PMP No: 1572228, expires 01/09/2022)

RELEVANT EXPERIENCE

East Baton Rouge Stormwater Master Plan. Project Manager. CSRS, Inc.: Mr. Boeneke managed the successful execution of two specific tasks by CSRS as a subcontractor to HNTB (prime contractor) for Phase 2 of the East Baton Rouge Parish Stormwater Master Plan. The tasks included: Task 4 – Design Criteria & Methodology Support and Task 5 – Preliminary Ordinance and Codes. These preliminary tasks were primarily focused on conducting a review and inventory of current requirements, meetings with representatives of EBR City-Parish Government, and making recommendations for improvements to the general organization of the content and improving access for the public. He also successfully negotiated the scoping and budgeting the next phase of work which included planning, public outreach, development of design criteria and methodology, and H&H modeling of select watersheds.

Louisiana Watershed Initiative (LWI.) Program Manager. CSRS, Inc.: Mr. Boeneke served as program manager for the Louisiana Watershed Initiative, the state's watershed-based floodplain management program. He was responsible for all program management and administrative duties which included contracting, resources allocation, scoping tasks, budgeting, and stakeholder engagement.

Coastal Restoration and Protection Projects in Louisiana and Texas. Project Manager. Atkins North America, Inc.: Mr. Boeneke managed project teams that included engineers, scientists, and support personnel. He was responsible for facilitating successful project execution by adhering to scope, schedule, and budget. Key projects included: Engineering and Design of the Bayou Tigre Pump Station (TV-75) and Flood Gate (TV-67) in Vermilion Parish; Hydrology and Hydraulic Modeling for Delcambre-Avery Canal Structure (TV-57); Bayou Tigre Flood Control Complex (TV-75) in Vermilion and Iberia Parishes; and the Engineering Design Services for a drainage project for Stewart and East Beaches in Galveston, TX.



Key Staff Resumes



Justin Bordelon

Manager & Survey 360 Specialist

Justin Bordelon currently serves as Fenstermaker's Survey 360 Specialist and as a Manager in the Survey group. He will serve as the **Project Manager** for this project. Mr. Bordelon has over 14 years of extensive experience in operating underwater acoustic surveying and inspection instruments and processing the data produced from these instruments to include acoustic remote sensing, single-beam and multi-beam echosounders, fathometers, profilers, pipeline location equipment and others. Mr. Bordelon was part of Fenstermaker's Underwater Acoustic Imaging Group that received the coveted Transportation Excellence Award in the category of Innovative Use of Product or Technology from LA DOTD in 2009 for the implementation of the technology for performing a Dam System Evaluation on D'Arbonne Dam near Farmerville, LA. Mr. Bordelon was the Project manager for the Post Hurricane Laura and Delta Events for the Port of Lake Charles. He coordinates and supervises the activities of crew personnel and all post data collection analysis.

EDUCATION

B.S., 2009, Business Administration, University of Louisiana at Lafayette

RELEVANT EXPERIENCE

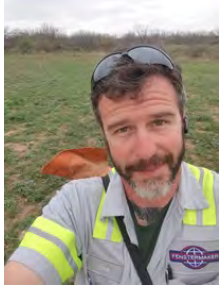
Delacroix Marsh Creation Project (BS-0037) (St. Bernard Parish, LA): Fenstermaker performed bathymetric, topographic, magnetometer, side-scan sonar, and sub-bottom profile surveys within the proposed borrow and fill areas of Delacroix Island. Mr. Bordelon assisted with the development of the survey plan and is participating in all aspects of field data collection and development of deliverables.

Lake Pontchartrain Shoreline Protection (Tangipahoa Parish, LA): Fenstermaker was contracted by HDR Engineering, Inc., (HDR) for topographic and hydrographic surveys of littoral and beach environments for a Lake Pontchartrain Shoreline Protection Project. Mr. Bordelon assisted with project management, the hydrographic and topographic field surveys, and cursory environmental site investigation.

Cote Blanche Bay Site Investigation (St. Mary Parish, LA): Fenstermaker was contracted by LaHaye Consulting to perform a remote sensing underwater hydrographic survey for Settoon Towing in West Cote Blanche Bay around and existing barge dock facility and along a prescribed corridor in support of construction activities. Mr. Bordelon was the Project Manager, Lead Field Technician, and assisted in the data processing and deliverables for the Cote Blanche Bay Site Investigation Survey.

Calcasieu Parish (HUC 8) Watershed Modeling & Planning (Calcasieu Parish, LA): Fenstermaker provided surveying services within the project area in support of the modeling efforts for the project. The survey task consisted of the collection of roadside ditch inverts, cross drains, high and low cords on existing bridge decks, and documentation of the existing conditions of the crossings. Mr. Bordelon oversaw field coordination, project management, and data processing for all the bathymetric surveys required for the Calcasieu Parish (HUC) 8 Watershed Modeling & Planning Project.

Key Staff Resumes



Joe Broussard

Survey Technician III

Mr. Broussard is a Senior Survey 360 Technician with the Advanced Technologies Group and acts as our lead technician in data collection activities for all our underwater acoustic and bathymetric survey operations. He will serve as the **Lead Technician** on this project. He has significant experience in operating underwater acoustic imaging sonar/profilers, side scan sonar and multi-beam systems, single beam echosounders, pipeline location devices, and other conventional surveying systems. While he has performed as a technician on several laser scanning surveys, his specialty and talent lie with the water-based survey operations utilizing the equipment mentioned above.

EDUCATION

B.A., 2003, Creative Writing, University of Louisiana at Lafayette

TRAINING & CERTIFICATIONS

2016, Remote pilot certification, Small Unmanned Aircraft System, #3909218

RELEVANT EXPERIENCE

Delacroix Marsh Creation Project (BS-0037) (St. Bernard Parish, LA): Fenstermaker performed bathymetric, topographic, magnetometer, side-scan sonar, and sub-bottom profile surveys within the proposed borrow and fill areas of Delacroix Island. Mr. Broussard was involved in preplanning, crew/field coordination, and all bathymetric, side scan, and magnetometer data processing, along with the Coastal Protection and Restoration Authority's (CPRA) Louisiana SAnd Resources Database (LASARD) deliverables.

Post Hurricane Laura & Delta Survey – Port of Lake Charles (Calcasieu Parish, LA): Fenstermaker performed a side scan sonar and a bathymetric survey to determine existing water bottom depths and to show any debris or hazards to navigation after the Hurricane Laura and Delta Events. As the project's crew chief, Mr. Broussard assisted in post processing of bathymetric and side scan data and executed the last bathymetric survey post Hurricane Delta.

Barataria Basin Static GPS Network Survey, Jefferson & Lafourche Parishes, LA): CPRA conducted an analysis of recent subsidence rates within the Barataria Basin to support coastal restoration planning and design throughout coastal Louisiana. Fenstermaker performed static GPS network surveys at nine (9) secondary benchmark locations within the Barataria Basin for CPRA. As a Party Chief, Mr. Broussard performed field survey services.

Montes del Plata Barge & Ocean Wharf Survey (Conchillas, Uruguay): Montes del Plata secured the services of Fenstermaker's Advanced Technologies Division to provide an Underwater Acoustic Imaging Investigation of the Montes del Plata Barge Wharf and Ocean Wharf. This survey was performed as the benchmark for future investigation of the newly constructed facilities. Mr. Broussard was responsible for imaging the ocean and barge wharves and post processing data.

Project Understanding and Work Plan

Fenstermaker understands the scope of work to include a bathymetric survey and stump identification survey in preparation for dredging activities for the six University Lakes surrounding LSU and as shown in the figure below.

The Lakes



The extent of the services to be procured include all six major lakes in the University Lakes System:

- University Lake
- City Park Lake
- Crest Lake
- Campus Lake
- College Lake
- Erie Lake

All bathymetric surveys will follow International Hydrographic Organization (IHO) Minimum Standards for Hydrographic Surveys. The stump identification survey will be performed by imaging and mapping out the lake bottom utilizing sidescan sonar.

WORK PLAN

Horizontal and Vertical Positioning

Control points will be installed by Fenstermaker in and around the project area for use as GPS base stations during the data collection activities. In order to establish state plane coordinates on these points, Fenstermaker will conduct static surveys over the course of multiple days. Upon completion of these static surveys, the raw GPS data along with the IGS ephemeris and local continuously operating reference station (CORS) data for each field day will be accumulated and processed through Trimble's Business Center (TBC) software. In order to obtain the highest level of accuracy on all control points, Fenstermaker will select CORS stations that are located nearest to or within the project area for use in the control processing activities.

After processing the GPS Network, a report will be generated in TBC to determine satellite cycle slips to avoid baseline float solutions in the processed data. Static GPS data will be run through the Online Positioning User Service (OPUS).

Horizontal data will be surveyed in State Plane NAD83 (2011), Louisiana South Zone 1702, while NAVD88, Geoid 12B will be used for the vertical datum.

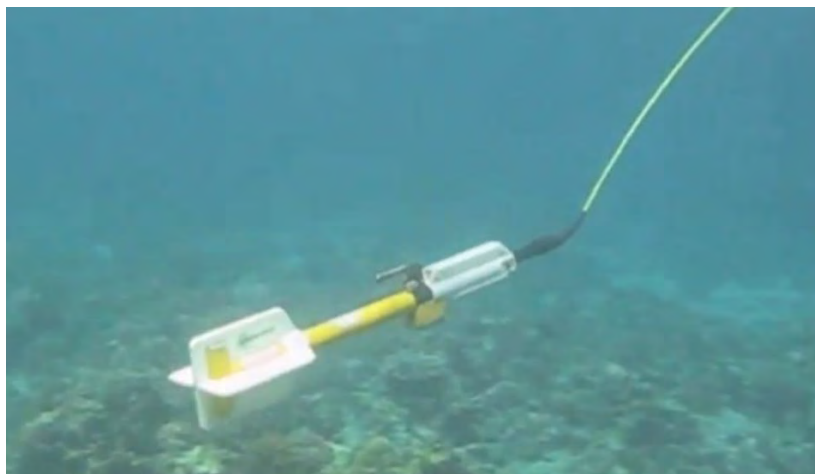
TASK 1: Bathymetric survey

Using an ODOM MK III dual frequency echosounder, bathymetric data will be collected following approximately 40 survey transects spaced at 200-foot intervals, traversing from bank to bank. The dual frequency echosounder will measure the top layer and fluff layer of unconsolidated sediment as required in the RFP. A sound velocity profile of the speed of sound through the water column will be taken prior to the survey using an Odom digibar cast sound velocity profiler. Sound velocity profile measurements will be repeated daily in order to capture variations in the sound velocity profile. Once acquired, sound velocity casts will be imported into Hypack and Discover Software Systems. Prior to commencing the survey, survey checks will be made to ensure that the survey and positioning systems are operating optimally.



If the depths do not support the use of this method (i.e., if the depth are too shallow), a topographical survey will resume along the transect to the bank, collected at 10-foot intervals. The topographic survey shall extend 20-feet beyond the bank landside.

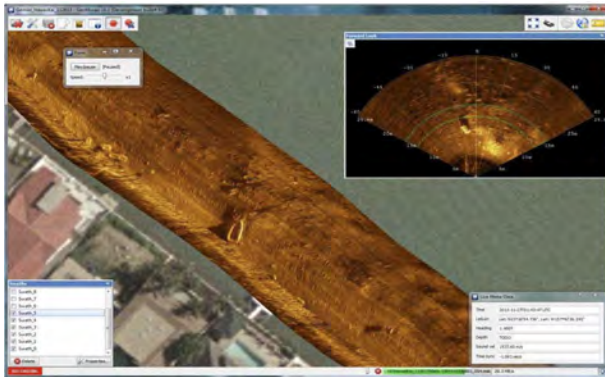
A magnetometer survey, using the Geometrics G-882 water magnetometer, will follow the same transects as mentioned in the above bathymetric survey to detect any pipelines or anomalies throughout the lakes.



All data from the above will be collected in HYPACK, a marine data collection software. The bathymetry will be processed in HYPACK, and the magnetometer data will be processed in Sonarwiz, a marine data collection and processing platform.

TASK 2: Stump Identification

Using a Tritech Gemini 720i forward looking acoustic scanning and multibeam sonar to provide an acoustic 2-dimensional image of the bottom to identify obstructions, debris, stumps, and any features above the mudline. A minimum of 80 survey transects spaced at 100-foot intervals, traversing from bank to bank will be surveyed using the Gemini sonar.



All data will be collected and processed in Stand Alone Mosaicking Module (SAMM) hydrographic software.

Using these images and their georeferenced location, images will be reviewed for any obstructions. They will be rotated and mosaiced to provide a complete bottom picture of the lakes.



Proposal

Bathymetric and Stump Identification Survey For University Lakes Project



DELIVERABLES

Fenstermaker deliverables will consist of maps and drawings showing contours and profiles of the University Lakes from the bathymetric survey. A sidescan sonar mosaic of each University Lake will also be produced to identify stumps, debris and other sonar contacts. The map will also include the position of any magnetitic anomalies or pipelines throughout the Lakes. A survey report will include the survey methodology, the sonar contacts, coordinates, and dimensions of the stumps along with a magnetometer report listing all anomalies with the amplitude, duration, type, and position.

PROJECT SCHEDULE

Project Prep and Setup: Jan 04, 2021 – Jan 08, 2021

Bathymetric Survey: Jan 11, 2020 – Jan 15, 2020

Stump Identification Survey: Jan 18, 2020 – Jan 29, 2021

Deliverables: Feb 01, 2021 – Feb 12, 2021

University Lakes Project																																														
Project Lead: Justin Bordelon																																														
Budget																																														
WBS	Task Name	Resource Names	Start	Finish	Duration	Percent Complete	Jan-21		[W1]		Jan-21		[W2]		Jan-21		[W3]		Jan-21		[W4]		Feb-21		[W5]		Feb-21		[W6]																	
							4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12
							M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
1	Project Prep and Setup		Mon 04-Jan-21	Fri 08-Jan-21	5	0%	Project Prep and Setup																																							
2	Bathymetric Survey		Mon 11/Jan/21	Fri 15/Jan/21	5	0%	Bathymetric Survey																																							
3	Stump Identification Survey		Mon 18/Jan/21	Fri 29/Jan/21	10	0%	Stump Identification Surv																																							
4	Delieverables		Mon 01/Feb/21	Fri 12/Feb/21	10	0%	Delieverables																																							



Current Backlog and Ability to Conform to Schedule

Fenstermaker's current backlog is through the end of December. Fenstermaker will have no problem meeting the notice to proceed Issued to the Contractor on January 11, 2021.

Collectively in the Lafayette office, we currently have 16 field crews running the same number of GPS/RTK units. Fenstermaker has a department dedicated to the updates, maintenance, and repairs of all equipment, including back up sets. All field crews are equipped with Geometrics cesium magnetometers, radio detection for line location, total stations for conventional surveying, Schonstedt locating equipment, and the knowledge to tackle anything. The Fenstermaker water fleet includes thirteen (13) motor vessels, ranging from 14-feet to 26-feet in length, along with numerous 10-foot aluminum flat-bottom boats for harder to access areas with shallow water. On hand, we have two (2) single beam transducers (ODOM CV100 and CEE-Echo) and one (1) dual frequency transducer (Mark III). Also, Fenstermaker has two Geometrics G-882 marine magnetometers, two Kongsburg MS1000 scanning sonars, and a Starfish side scanning sonar.

Upon the notice to proceed, Fenstermaker will provide a three (3) man survey crew to perform the tasks as mentioned in the "Project Understanding and Work Plan" section of this submittal. All survey (field) equipment components necessary to thoroughly and successfully complete the tasks are as follows:

- Real-time kinematic (RTK) GPS receivers
- Survey vessel for traversing the lakes
- Cee Hydro Systems CEE-Echo Dual beam transducer for bathymetry
- TriTech Gemini 720ik Sonar and software for bottom scanning and hazard identification
- Geometrics G-882 marine magnetometer for metal anomalies/pipelines/obstructions

Proposal

Bathymetric and Stump Identification Survey For University Lakes Project



Proposed Fee

The proposed fee is outlined in the Schedule B Cost Proposal Template. As directed by the RFP, Fenstermaker is submitting it as a separate email attachment.

Plan to Use Small and/or Disadvantaged Businesses

Fenstermaker can complete this project 100% in-house. Therefore, no subconsultant firms will be employed by Fenstermaker on this project.

Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms

Fenstermaker can complete this project 100% in-house. Therefore, no subconsultant firms will be employed by Fenstermaker on this project.

SCHEDULE C to UL RFP for Bathymetric and Stump Identification Survey- CERTIFICATION STATEMENT

The undersigned hereby acknowledges she/he has read and understands all requirements and specifications of the Request for Proposals (RFP), including attachments.

OFFICIAL CONTACT. UL requests that the Proposer designate one person to receive all documents and the method in which the documents are best delivered. Identify the contact name and fill in the information below: (Print Clearly)

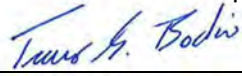
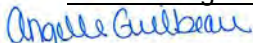
Date 11/20/2020 Official Contact Name: Travis Bodin, PLS, PMP
A. E-mail Address: travisb@fentermaker.com
B. Facsimile Number with area code: (337) 232-3299
C. US Mail Address: 445 North Blvd., Suite 650, Baton Rouge, LA, 70802

Proposer certifies that the above information is true and grants permission to UL to contact the above named person or otherwise verify the information provided.

By its submission of this proposal and authorized signature below, Proposer certifies that:

1. The information contained in its response to this RFP is accurate.
2. Proposer complies with each of the mandatory requirements listed in the RFP and will meet or exceed the functional and technical requirements specified therein.
3. Proposer accepts the procedures, evaluation criteria, mandatory contract terms and conditions, and all other administrative requirements set forth in this RFP.
4. Proposer's quote is valid for at least *180 calendar* days from the date of the proposal submission deadline specified in the RFP.
5. Proposer understands that if selected as the successful Proposer, he/she will have *15 business days* from the date of delivery of final Contract in which to complete contract negotiations, if any, and execute the final contract document.
6. Proposer certifies, by signing and submitting a Proposal for \$25,000 or more, that their company, any subcontractors, or principals are not suspended or debarred by the General Services Administration (GSA) in accordance with the requirements in 2 CFR 200. (A list of parties who have been suspended or debarred can be viewed via the internet at www.sam.gov.)
7. There is no litigation or any suspension or debarment proceedings that could affect the services to be supplied in any contract resulting from this RFP, or a list of such litigation/ proceedings is attached to this Certification.
8. In the last ten (10) years, the Proposer has not filed (or had filed against it) any bankruptcy or insolvency proceeding, whether voluntary or involuntary, or undergone the appointment of a receiver, trustee, or assignee for the benefit of creditors, or if such proceedings exist, an explanation providing relevant details is attached.
9. There are no pending Securities Exchange Commission investigations involving the Proposer, or, if such are pending or in progress, an explanation providing relevant details and an attached opinion of counsel as to whether the pending investigation(s) will impair the Proposer's performance in a contract under this RFP is attached.
10. There is no open or pending litigation initiated by Proposer or where Proposer is a defendant in a customer matter, or if such proceedings exist, an explanation providing relevant details is attached.
11. Proposer 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 terminate 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. Proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. UL reserves the right to reject the response of the proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

Authorized Signature: 
Typed or Printed Name: Travis Bodin, PLS, PMP
Title: Vice President, Survey & Mapping
Company Name: C. H. Fenstermaker & Associates, L.L.C.
Address: 445 North Blvd., Suite 650
City: Baton Rouge State: LA Zip: 70802

SIGNATURE of Proposer's Authorized Representative DATE 11/20/2020

PART III: Acknowledgement of Receipt

This Acknowledgement of Receipt must be signed by an Authorized Representative of the Proposer and included in Proposer's response to this Request for Proposals.

I HEREBY CERTIFY THAT I HAVE ACKNOWLEDGED RECEIPT OF THIS ADDENDUM 1 TO THE REQUEST FOR PROPOSALS FOR BATHYMETRIC AND STUMP IDENTIFICATION SURVEY SERVICES AND HAVE INCLUDED A COPY OF THIS ACKNOWLEDGEMENT WITH PROPOSAL AS EVIDENCE OF RECEIPT.

COMPANY NAME: C. H. Fenstermaker & Associates, LLC.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____



PRINTED NAME: Travis Bodin, PLS, PMP

TITLE: Vice President, Survey & Mapping

DATE: November 20, 2020

End of Addendum

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

Name:	Public Address:
C. H. Fenstermaker & Associates, L.L.C.	Mr. Raymond J. Reaux 135 Regency Square Lafayette,LA 70508

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000154	ACTIVE	09/14/1984	09/30/2021	Mr. John Warren Fenstermaker # PLS.0004797 - Active Mr. Travis Steven Bodin # PLS.0005067 - Active

ACORDTM**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

11/11/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER McGriff Insurance Services 5750 Johnson Street 5th Floor Suite 505 Lafayette, LA 70503	CONTACT NAME: Kristine LeBlanc CIC,CMIP,CISR PHONE (A/C, No, Ext): 337 314-8949 FAX (A/C, No): 337-234-0776 E-MAIL ADDRESS: kristine.leblanc@mcgriff.com														
INSURED C.H. Fenstermaker & Associates, LLC 135 Regency Square Lafayette, LA 70508	<table border="1"> <thead> <tr> <th data-bbox="816 426 1433 451">INSURER(S) AFFORDING COVERAGE</th> <th data-bbox="1433 426 1572 451">NAIC #</th> </tr> </thead> <tbody> <tr> <td data-bbox="816 451 1433 478">INSURER A : Indian Harbor Insurance Company</td> <td data-bbox="1433 451 1572 478">36940</td> </tr> <tr> <td data-bbox="816 478 1433 506">INSURER B : Gray Insurance Company</td> <td data-bbox="1433 478 1572 506">36307</td> </tr> <tr> <td data-bbox="816 506 1433 533">INSURER C : XL Specialty Insurance Company</td> <td data-bbox="1433 506 1572 533">37885</td> </tr> <tr> <td data-bbox="816 533 1433 560">INSURER D : Indemnity Insurance Company of N A</td> <td data-bbox="1433 533 1572 560">43575</td> </tr> <tr> <td data-bbox="816 560 1433 588">INSURER E : Aspen American Insurance Company</td> <td data-bbox="1433 560 1572 588">43460</td> </tr> <tr> <td data-bbox="816 588 1433 615">INSURER F :</td> <td data-bbox="1433 588 1572 615"></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Indian Harbor Insurance Company	36940	INSURER B : Gray Insurance Company	36307	INSURER C : XL Specialty Insurance Company	37885	INSURER D : Indemnity Insurance Company of N A	43575	INSURER E : Aspen American Insurance Company	43460	INSURER F :	
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INSURER F :															

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			US00081973LI20A	01/01/2020	01/01/2021	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			XSAL075391	01/01/2020	01/01/2021	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			US00081974LI20A	01/01/2020	01/01/2021	EACH OCCURRENCE \$10,000,000 AGGREGATE \$10,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	XSWC071119	01/01/2020	01/01/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
A	Prof. & Poll Liab			US00081973LI20A	01/01/2020	01/01/2021	*See Attached
C	Leased/Rented EQP			UM00072344MA20A	01/01/2020	01/01/2021	\$750,000 max per item
D	Hull			N04928702	01/01/2020	01/01/2021	\$317,053 TIV

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

(See Attached Descriptions)

CERTIFICATE HOLDER**CANCELLATION**

University Lakes, LLC
3796 Nicholson Drive
Baton Rouge, LA 70802

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

William Quinlan

DESCRIPTIONS (Continued from Page 1)

Commercial General Liability (Occurrence form CG 00 01 04 13) includes:

- *Blanket Waiver of Subrogation where required by written contract
- *Blanket Additional Insured (Forms CG 20 10 10/01 & CG 20 37 10/01) where required by written contract.
- *Primary and Non-Contributory Insurance Wording Included where required by written contract.
- *Broad Form Property Damage Liability including Explosion, Collapse and Underground (XCU)
- *Underground Resources & Equipment Coverage (\$1,000,000 agg limit)
- *Premises/Operations & Products/Completed Operations
- *Contractual Liability
- *In Rem Endorsement
- *Gulf of Mexico Territory extension
- *Per Project Endorsement - subject to \$5,000,000 cap (GL)
- *Severability of Interests Provision
- *Action Over-silent
- *Independent Contractors coverage for work sublet
- *Watercraft Amendment Endorsement includes liability for non-owned watercraft not used to carry persons or property for a charge
- *30 days Notice of Cancellation where required by written contract (10 days for non-payment of premium)

Automobile Liability Policy includes:

- *Blanket Waiver of Subrogation, Blkt Additional Insured & Primary & Non-Contributory where required by written contract; 30 days Notice of Cancellation to holder where required by written contract; MCS-90 Endorsement

Workers Compensation/ Maritime Employers Liability includes:

- *Blanket Waiver of Subrogation & Alternate Employer where Required by Written Contract
- *U.S. Longshoremen & Harbor Workers Compensation Act Coverage
- *Outer Continental Shelf Land Act
- *Maritime Employers Liability Limit: \$1,000,000
- *Jones Act (Including Transportation, Wages, Maintenance & Cure), In Rem, Death on the High Seas
- *Voluntary Compensation Endorsement & Voluntary Compensation Maritime Coverage Endorsement
- *Other States Endorsement
- *Gulf of Mexico Territorial Extension
- *30 days Notice of Cancellation to holder where required by written contract

Excess Liability Policy includes:

- *Coverage is follow form of Auto Liab, General Liab, Employers Liab, Maritime Employers Liab, Professional Liab, Contractors Pollution Liability, Protection & Indemnity and includes drop-down clause
- *Blanket Addl Insured, Waiver of Subrogation & Primary & Non-Contributory, 30 Days Notice of Cancellation (except 10 days for non-payment of premium) where required by written contract

Professional / Pollution Liability: (1/1/20-1/1/21; Indian Harbor Ins Co; Policy #US00081973LI20A):

- *Professional Liability: \$1,000,000 each incident, subject to \$2,000,000 general aggregate(claims made)
- *Contractors Pollution Liability: \$1,000,000 each claim, subject to \$2,000,000 gen agg (occurrence form)
- *Blkt Add'l Insured, Waiver of Subrogation & Primary & Non-Contributory where required by written contract
- *In Rem Endorsement
- *Gulf of Mexico Territory Endorsement
- *Transportation Pollution Liability Endorsement-provides pollution coverage for watercraft and autos
- *30 days Notice of Cancellation where required by written contract (10 days for non-payment of premium)

Hull:

- *Includes Blanket Waiver of Subrogation as required by written contract

Unmanned Aircraft Liability: effective 1/1/20-1/1/21; Global Aerospace Pool; Policy #8001079; \$10,000,000 per occurrence; Includes Blanket Additional Insured as required by written contract

Protection & Indemnity: effective 4/29/2020-4/29/2021; Aspen American Insurance Company; Policy #TRL409775; \$1,000,000 each occurrence-combined single limit. Includes Blanket Additional Insured & Blanket Waiver of Subrogation as required by written contract. Includes In Rem.