



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

**University Lakes, LLC**



 **NTB Associates, Inc.**  
Surveyors • GIS • Engineers  
[www.ntbainc.com](http://www.ntbainc.com)

**November 20, 2020**

**1. PROPOSER COVER SHEET  
(INCLUDE AS PART OF RESPONSE UNDER TAB 1)**

**Section A. Proposer Information**

Legal Name: NTB Associates, Inc.	
Main Administrative Address: 525 Louisiana Ave.	
City & State: Shreveport, LA	Zip Code: 71101
Telephone Number: (318) 226-9199	Fax Number: (318) 221-1208
E-mail Address: prossini@ntbainc.com	Web Site: www.ntbainc.com
CEO/Executive Officer: Paul B. Rossini	Office Phone Number: (318) 226-9199
Chief Financial Officer: Sally Johnson, Treasurer	Office Phone Number: (318) 226-9199
Contact Person's Name: Mike King, Project Manager	Phone Number Including Area Code: (225) 751-4002
Mailing Address, City, State, Zip Code, Email: 8643 Main Street, Zachary, LA, 70791 mking@ntbainc.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 for this Proposal.

Paul B. Rossini  
Print Authorized Official's Name

  
Authorized Official's Signature

President  
Authorized Official's Title

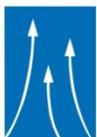
11/20/20  
Date

Figure 1

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



NTB Associates, Inc.  
**Letter of Transmittal**

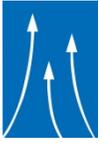


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November 20, 2020

University Lakes, LLC  
B&D/ CSRS, Project Advisor  
[Lakesinfo@csrsinc.com](mailto:Lakesinfo@csrsinc.com)

**RE:           REQUEST FOR PROPOSAL  
              BATHYMETRIC AND STUMP IDENTIFICATION SURVEY  
              FOR UNIVERSITY LAKES PROJECT, BATON ROUGE, LA**

Dear Subcommittee Team & PMC,

**NTB Associates, Inc. (NTBA)** is pleased to submit our proposal to University Lakes, LLC for the above referenced services.

**NTB Associates, Inc. (NTBA)** is a Louisiana based surveying and engineering small business providing exceptional services to our clients, both private and public for over 34 years. **NTBA** has performed services for flood control and restoration projects since 1986. Since 2009, **NTBA** has performed bathymetric surveying services on five Hydrographic Retainer Contracts for the Louisiana Department of Transportation and Development.

Our staff has completed over 725 bathymetric surveys statewide over the last 11 years. In addition, we have performed bathymetric surveying services of the Ouachita River in Monroe, Louisiana, the Little Red River in Arkansas, the Galveston Marine Facility in Galveston, Texas, the Red River in Shreveport, Louisiana, and the Fort Polk Railroad Consolidation in Texas, just to name a few.

**NTBA** offers a local, experienced, and capable group of professionals and staff trained and proficient in specialized bathymetric survey equipment and software. With a branch office in Zachary, LA, **NTBA** possesses the local knowledge and understanding of what is required to complete the work associated with this scope of services.

Thank you for your consideration and the opportunity to present our proposal. If you have any question or I can be of any assistance, please do not hesitate to call me at (318) 226-9199.

Sincerely,

NTB Associates, Inc.

Paul B. Rossini, PLS, LS, PS  
President

SHREVEPORT, LA  
525 Louisiana Ave.  
Shreveport, LA 71101  
Phone: (318) 226-9199  
Fax: (318) 221-1208

TX Surv No. 10118400  
TX Eng No. F-955

ZACHARY, LA  
8643 Main St.  
Zachary, LA 70791  
Phone: (225) 751-4002  
Fax: (225) 751-4006

TX Surv No. 10193873

MOUNTAIN HOME, AR  
100 Bomber Blvd.  
Ste. 2  
Mountain Home, AR 72653  
Phone: (870) 425-5353  
Fax: (870) 424-2333

LITTLE ROCK, AR  
500 D Pleasant Valley Dr.  
Ste. 102  
Little Rock, AR 72227  
Phone: (501) 664-6380  
Fax: (501) 280-0411

TX Surv No. 10118401

GREELEY, CO  
300 E. 16<sup>th</sup> St.  
Unit 207  
Greeley, CO 80631  
Phone: (970) 888-3518

WILLISTON, ND  
15 Energy St.  
Ste. 200  
Williston, ND 58801



**NTB Associates, Inc.**

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www.ntbainc.com

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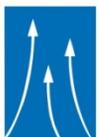
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University Lakes, LLC  
Bathymetric and Stump Identification Survey  
For University Lakes Project, Baton Rouge, LA



NTB Associates, Inc.

## Organizational Background & Overview



NTB Associates, Inc.

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## ORGANIZATIONAL BACKGROUND AND OVERVIEW



**NTB Associates, Inc.**  
Surveyors • GIS • Engineers  
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**NTB Associates, Inc. (NTBA)** was incorporated in the State of Louisiana in 1986. This year, we entered our 35<sup>h</sup> year of operating as a Small Business. **NTBA** specializes in performing bathymetric, riparian, flood control, topographic, HDS 3D

terrestrial laser scanning, boundary, right-of-way, hydraulic, geophysical, primary and secondary control, coastal, wetland, and flood protection surveys as well as providing ASCE 38-02 Quality Level A-D subsurface utility engineering (SUE), GIS mapping, and construction layout services. **NTBA** has completed a vast number of flood control and restoration surveys for city, parish, state, and government agencies. The company ownership is under the direction of Mr. Paul B. Rossini, PLS, LS, PS, President and CEO. Since the founding of the company, **NTBA** has experienced significant expansion in engineering and survey staff and capabilities.

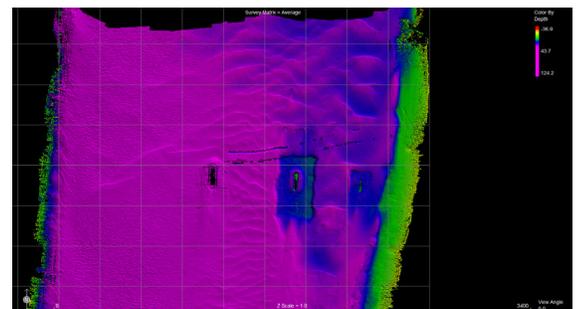
**NTBA** has a work force of 85 employees with locations in Zachary and Shreveport, Louisiana, Mountain Home and Little Rock, Arkansas, Big Spring, Texas, Greeley, Colorado, and Williston, North Dakota. **NTBA's** Zachary office was opened in 2005 in Baton Rouge and moved to Zachary in early 2015 where it is located at 8643 Main Street. Our Bathymetric Surveying operations are currently performed from our Zachary office with staff and equipment available to perform the assigned work independently from our corporate office located in Shreveport, Louisiana. There are no gaps in staff that prevent the Zachary office from providing turnkey services. In the event of accelerated schedules or emergency work, Mr. Rossini will immediately assign additional resources from one of our other branch offices usually within 24 hours of the request.

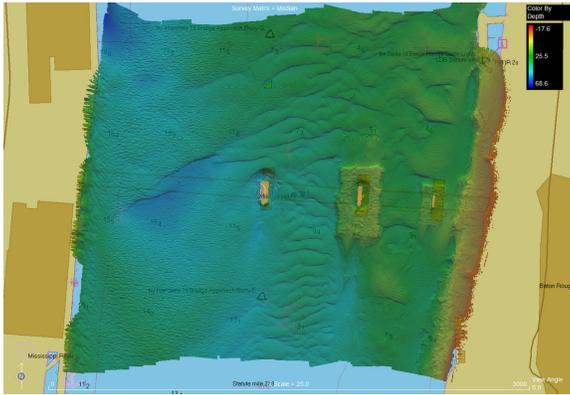


**GWS**  
**ENGINEERING, INC.**  
LAND SURVEYING • PLANNING • CIVIL

Our Sub Consultant, GWS Engineering, Inc., was founded in 1994 and operates in Baton Rouge, LA. In 2019, GWS was purchased from the original founder by Karen M. Kennedy, PE and Matthew S. Estopinal, PE, PLS. Since the change in ownership, GWS has obtained Woman Business Enterprise (WBE) status and has obtained their certification as a Small and Emerging Business Enterprise and Small Entrepreneurship with Louisiana Economic Development's Hudson Initiative. **NTBA** and GWS have worked together on several projects under the new management. Both staffs have a long working relationship in their current companies as well as at previous employers. GWS and **NTBA** are teamed together as sub-consultants on a general services team for surveying services giving our team a strong foundation to combine all of our surveying service to provide a cohesive package for this project. As part of the bathymetric surveying proposal, GWS will provide quality control reviews of data as well as assist with geotechnical boring locating as needed.

**NTBA** has over 28 years of extensive experience performing and collecting bathymetric survey data of lakes, streams, and rivers to determine underwater features, depths of channels, water bodies, location of debris and tree stumps on lake bottoms, and bottom profiles utilizing single beam and multibeam equipment. Additionally, **NTBA's** survey crews have the experience required to access and navigate shallow marsh and water bodies by boat.





We have utilized fathometer and bathymetric practices to produce cross sections within the Atchafalaya Basin. We have performed geophysical surveying using multibeam sonar on the Red River in order to accurately determine the river bottom and channel location in association with the design of a new stormwater outfall into the river. We are providing bathymetric surveying services statewide to the LaDOTD for our 5th IDIQ contract since being awarded our first contract in 2009. We have provided surveying services for drainage area delineation for several highway design projects throughout the state. We have also provided topographic surveys to produce

profiles of existing features along the levee and cross sections for the New Orleans Area Flood Protection System. **NTBA** assisted in the mapping of the inundation levels from the historic floods of 2016 and Hurricane Gustav.

**NTBA's** team possesses the knowledge and understanding of what is required to complete the bathymetric, magnetometric, and stump surveys associated with this scope of services. The **NTBA** team are natives of the area and know the University Lakes area very well providing us with a working knowledge of the area and its' challenges. We are familiar with the existing public access points for the lakes included in this project. Our surveying and engineering disciplines bring over 150 years of bathymetric, riparian, flood control, primary and secondary control, coastal, wetland, and flood protection experience to your project. Our offices will use trained and experienced surveyors, survey support staff, and engineers to meet your project schedules. Our CAD experts are trained and experienced in both AutoCAD Civil 3D as well as Microstation and Bentley InRoads. **NTBA** utilizes HYPACK Software Package for bathymetric surveying services. This specialized software package provides the tools needed to collect the survey data, process the raw data, and generate the deliverable to the client. HYSWEEP Survey and MBMAX64 are modules associated with HYPACK that help assist with the data collection and processing.

**NTBA** has a strong commitment to quality service and client satisfaction as demonstrated in all of our current and previous projects. Our high percentage of repeat clients also demonstrates our strong client relationships and quality of our projects. **NTBA** has established a Quality Assurance (QA) Program in an effort to provide a systematic method to maintain the highest quality professional services to our clients. Each team member is aware of the QA Program and understands how significant maintaining quality is to our clients. Our Project Managers continually remind the team of the importance of maintaining the quality process. The multi-step approach includes: Training of Staff, Technical Review, Quality Assurance Review for Field and Office, and Directors Review. The **NTBA** QA Program establishes our commitment to continual quality improvement. The QA Program is a living, breathing part of our firm.



All employees from Surveyors to Party Chiefs to rodmen on the survey crew are made aware of why we are doing this project. Each lake will be unique and will require differing approaches and techniques in order to provide the most accurate information available for the design. **NTBA** holds internal progress meetings with all staff and sub-consultants involved on the project, either in person or virtually, at least once a week to identify project concerns and completeness within the portions assigned to various personnel. Our firm understands that communication, not only within **NTBA** but with the project advisor personnel, is extremely important to the overall success of a project. By identifying issues immediately and devising solutions to these issues, we keep the project moving, on schedule, and within budget. Constant communication is the only way to accomplish this, either in person or virtually.

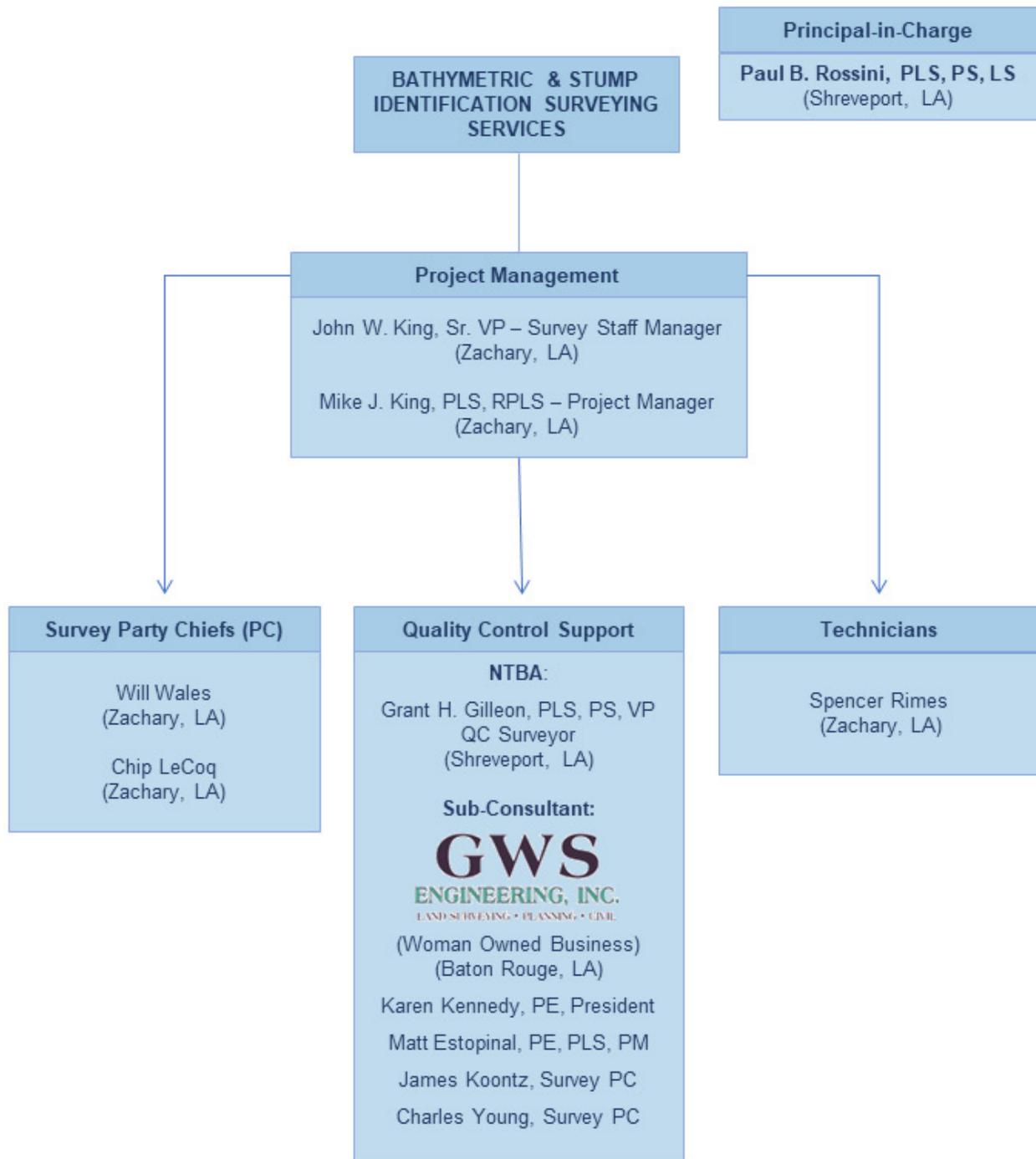
# ORGANIZATIONAL STRUCTURE CHART



**NTB Associates, Inc.**

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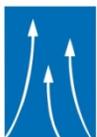
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University Lakes, LLC  
Bathymetric and Stump Identification Survey  
For University Lakes Project, Baton Rouge, LA



NTB Associates, Inc.  
**Firm & Key Staff Experience**



**NTB Associates, Inc.**

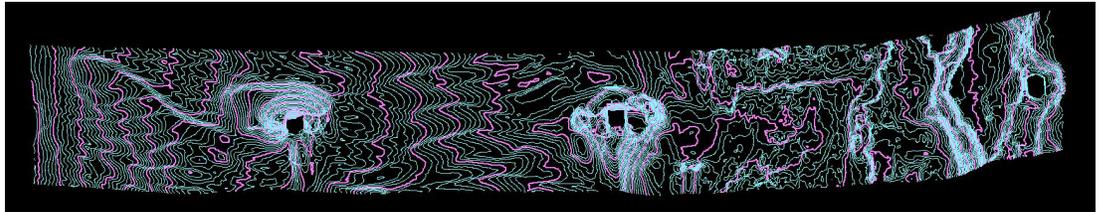
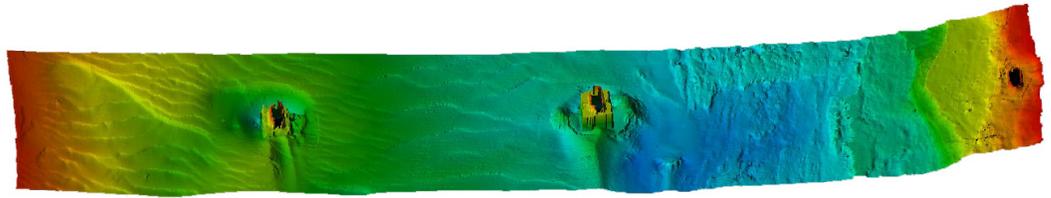
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## FIRM & KEY STAFF EXPERIENCE

Louisiana Department of Transportation and Development  
IDIQ Contract for Hydrographic Surveying Services Statewide, Louisiana (2018 - 2020)  
Mr. Joe Arretteig, PLS (225) 379-1105 joseph.arretteig@la.gov

NTBA is performing bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State currently totaling 200 sites including multibeam surveys of 4 bridges. For multibeam surveys,

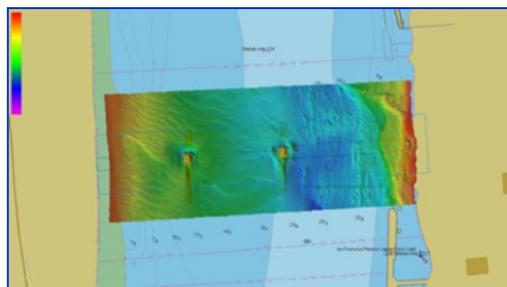
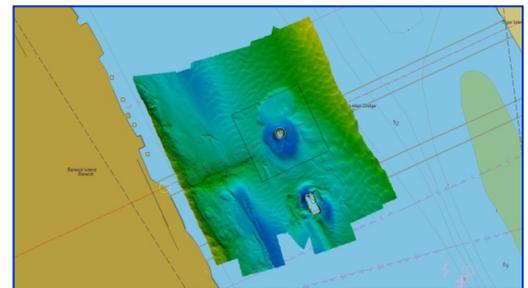


elevations were obtained beneath the bridge unless prevented by obstructions. The location of the project baseline, benchmark, and centerline at the bridge were identified using the current datum. A Quality Control Report of all data collecting procedures was developed. A comma delimited XYZ file of the geo-referenced bathymetric survey, including the location of pier's are coded in compliance with LaDOTD's feature code guide book. The scope of services for LaDOTD bathymetric surveys include training crews in methods consisting of running range lines at predetermined stations over the water and on the banks and recovering baseline and pre-determined range lines utilizing LaDOTD benchmarks, determining water elevations, performing fathometer bar check to ensure correct speed of sound, running and charting predetermined range lines, obtaining marks at predetermined distances along the range lines, and obtaining photographs of the bridge and any debris or adverse conditions.

Duties also include the preparation of sketches of the water body surveyed, reduction of chart data from depths to elevations, preparation of a data chart with the depths, elevations, and locations of the data obtained, and preparation of written reports on each survey noting field conditions and findings. All charts, field notes, photographs, data charts, sketches, and reports are submitted electronically to the State's ProjectWise site.

### PERSONNEL PARTICIPATION:

Paul B. Rossini, PLS, PS, LS, Principal-in-Charge  
Grant H. Gilleon, PLS, PS, Project Manager  
John W. King, Sr. VP, Survey Staff Manager  
Mike King, Assistant Project Manager  
Spencer Rimes, Data Technician  
William Wales, Survey Party Chief  
Chip LeCoq, Survey Party Chief



**Balar Associates, Inc.**

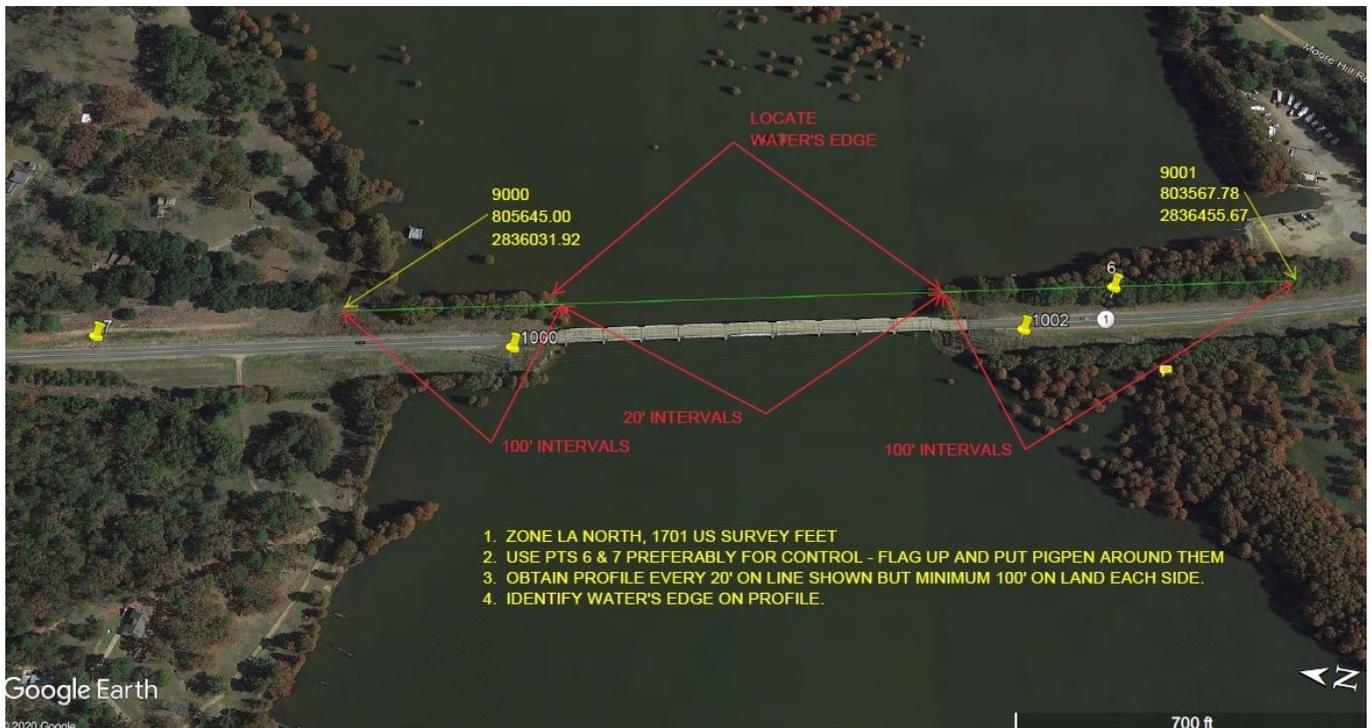
**Caddo Lake Hydrographic Profile Survey, Caddo Parish, Louisiana (2020)**

**Mr. David E. Kunz, PE (318) 221-8312 david.kunz@balar-engineers.com**

**NTBA** provided bathymetric surveying services in support of a directional bore design for the Oil City, LA Water Transmission Main. Utilizing a Teledyne-Odom Hydrotrac single beam fathometer, **NTBA** obtained a cross section of the lake parallel to the LA Hwy. 1 Bridge determining depths and elevations at 20' intervals for a total distance of 1,100 feet. **NTBA** provided the client with a point file, a PDF of the cross-section, and an ACAD drawing of the plan/ profile of the cross section. Caddo Lake was originally formed from the backing up of water along the Red River by a raft of trees into the Cypress Bayou valley which was originally a hardwood forest. The lake is now controlled by a dam; however many of the old hardwood forest trees still exist on the bottom of Caddo Lake much the same way the University Lakes contain tree stumps. The obstacles that exist at the bottom of Caddo Lake, although deeper, are very similar to the obstacles on the bottom of the University Lakes.

**PERSONNEL PARTICIPATION:**

- Paul B. Rossini, PLS, PS, LS, Principal-in-Charge
- Grant H. Gilleon, PLS, PS, Project Manager
- John W. King, Sr. VP, Survey Staff Manager
- Mike King, Assistant Project Manager
- Spencer Rimes, Data Technician
- William Wales, Survey Party Chief
- Chip LeCoq, Survey Party Chief



1. ZONE LA NORTH, 1701 US SURVEY FEET
2. USE PTS 6 & 7 PREFERABLY FOR CONTROL - FLAG UP AND PUT PIGPEN AROUND THEM
3. OBTAIN PROFILE EVERY 20' ON LINE SHOWN BUT MINIMUM 100' ON LAND EACH SIDE.
4. IDENTIFY WATER'S EDGE ON PROFILE.

CADDO LAKE PROFILE

STATION	TOP OF WATER	DEPTH
9000	805645.00 2836031.92	10.0
1000	805645.00 2836031.92	10.0
1002	805645.00 2836031.92	10.0
9001	803567.78 2836455.67	10.0
6	803567.78 2836455.67	10.0

**GWS Engineering, Inc.**

**Cessna Street Drone Surveying Services, Ascension Parish, LA (2020)**

**Mr. Matthew Estopinal, PE, PLS (225)769-1788 mestopinal@gwsengr.com**

**NTBA** provided horizontal and vertical control, aerial target placement, and drone aerial mapping survey services as part of a fill mitigation project for a 46-acre proposed subdivision. The project is located adjacent to a canal and is located within a FEMA flood hazard area. **NTBA** utilized drone technology to create a ground surface showing building pads, road base and pond construction to date to compare with the existing ground surface prior to dirt movement in order to determine the amount of fill mitigation that was still required. Aerial imagery of the site was also produced. Utilizing the drone allowed for the work to be completed in a couple of days rather than a couple of weeks via conventional topographic surveying.

**PERSONNEL PARTICIPATION:**

Paul B. Rossini, PLS, PS, LS, Principal-in-Charge

John W. King, Sr. VP, Survey Staff Manager

Mike King, Assistant Project Manager

Spencer Rimes, Data Technician

William Wales, Survey Party Chief

Chip LeCoq, Survey Party Chief

**GWS Engineering, Inc.:**

Karen M. Kennedy, PE, Principal-in-Charge

Matt S. Estopinal, PE, PLS, VP, Project Manager

James D. Koontz, Survey Party Chief

Charles P. Young, Survey Party Chief



**Louisiana Department of Transportation and Development**

**I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)**

**Mr. Nicholas J. Olivier, PE**

**(225) 379-1133**

**nicholas.olivier@la.gov**

**NTBA** provided topographic surveying services and Quality Level B, C, and D subsurface utility designating/locating throughout the approximately 11 miles of the project corridor of I-10 and approximately 2 miles of the project corridor of I-12 in West Baton Rouge and East Baton Rouge Parishes, including all surface streets and drainage ways within and surrounding the project corridor. **NTBA** performed conventional topographic surveying, bathymetric surveying, and 3D LiDAR Terrestrial Scanning along much of City Park Lake, East Lakeshore, Dalrymple Drive, and I-10 as part of this project as well as the remainder of the project limits. **NTBA** developed surface models from LiDAR data obtained from our survey crews as well as those of the 3 other sub-consultants. This involved much coordination with the sub-consultants to ensure that the surfaces were seamless at the transitions between the different surveys. The areas included major thoroughfares, surface streets, railroad right-of-ways, and drainage canals. Microstation files were provided as the deliverable. **NTBA** was the prime consultant and in direct supervision and control of 7 sub-consultants with multiple project milestones. This project was completed in accordance with the most current edition of the Location and Survey Manual and all currently accepted Location and Survey Automation procedures.

**PERSONNEL PARTICIPATION:**

Paul B. Rossini, PLS, PS, LS, Principal-in-Charge

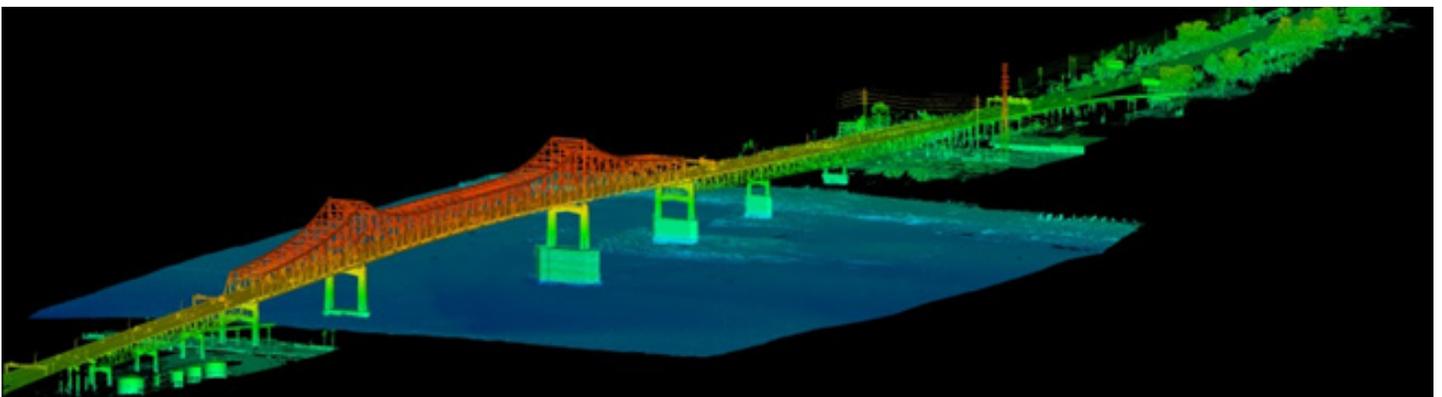
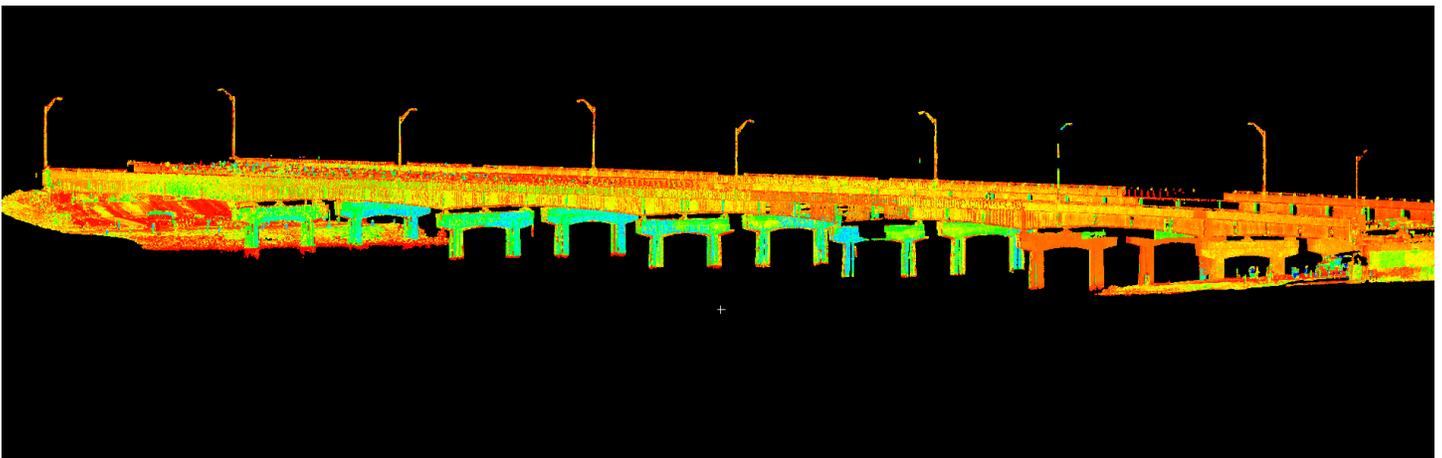
John W. King, Sr. VP, Survey Staff Manager

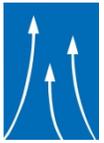
Mike King, Assistant Project Manager

Spencer Rimes, Data Technician

William Wales, Survey Party Chief

Chip LeCoq, Survey Party Chief





## PAUL B. ROSSINI, PLS, PS, LS

### Principal-in-Charge

Mr. Paul Rossini has over 40 years of various surveying experience including property, right-of-way, topographic, and bathymetric surveys, GPS control networks, surveys in support of subsurface utility engineering, drone aerial imagery services, HDS 3D Terrestrial Laser Scanning, and construction layout services for state, federal, local, and private agencies across the United States. Paul will serve as the Principal-in-Charge for this project and will be in charge of fee preparation, contract negotiations, and will assist in crew coordination as required. He will also have the final approval as part of the QA/QC team.

### KEY PROJECT EXPERIENCE:

#### Louisiana Department of Transportation and Development

##### IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)

Mr. Rossini is the Principal-in-Charge of staffing, logistics, training, and QA/QC for bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State currently totaling 200 tasks. Paul developed the field processes and works with Grant Gilleon, PM, for the in-house processes for the preparation of sketches; reducing chart data; preparation of data charts, elevations and locations of the data obtained; and preparing written reports.

#### GWS Engineering, Inc.

##### Cessna Street Drone Surveying Services, Ascension Parish, LA (2020)

Mr. Rossini was the Principal-in-Charge of staffing, logistics, training, and QA/QC for horizontal and vertical control, aerial target placement, and drone aerial mapping survey services as part of a fill mitigation project for a 46-acre proposed subdivision. **NTBA** utilized drone technology to create a ground surface showing building pads, road base and pond construction to date to compare with the existing ground surface prior to dirt movement in order to determine the amount of fill mitigation that was still required.

#### Balar Associates, Inc.

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#### Louisiana Department of Transportation and Development

##### I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)

Mr. Rossini was the Principal-in-Charge of reviewing the scope, preparing the fees, and negotiating the contract with the client. He also assisted with crew coordination, staffing, and logistics for topographic surveying and subsurface utility designating services in accordance with CI/ASCE Standard 38-02 using Quality Level B, C, and D techniques throughout the approximately 13 miles of the project. Mr. Rossini also assisted with contract negotiation, scheduling, and budget tracking of **NTBA's** 7 sub-consultants. This project included Interstate right-of-way, major thoroughfares, local streets, drainage canals, and railroad right-of-ways.



### EDUCATION

High School Diploma, 1980

### PROFESSIONAL REGISTRATIONS

Registered Professional Land Surveyor (LA, OK, MS, AR)

### LOCATION

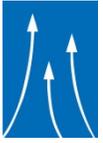
Shreveport, Louisiana

### TOTAL YEARS OF EXPERIENCE

40.5

### YEARS WITH NTBA

33.5



**JOHN W. KING, SENIOR VICE PRESIDENT**

**Survey Staff Manager**

Mr. John King has 30 years of various surveying and drafting experience for flood control and restoration projects. His experience includes flood inundation data collection, property, right-of-way, topographic, and bathymetric surveys, GPS control networks, surveys in support of subsurface utility engineering, drone aerial imagery services, HDS 3D Terrestrial Laser Scanning, and construction layout services for state, federal, local, and private agencies across the United States. John will serve as the Survey Staff Manager for our Zachary, LA branch office and assist in fee preparation and contract negotiations and manage office and field staff.

**KEY PROJECT EXPERIENCE:**

**Louisiana Department of Transportation and Development**

**IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)**

Mr. King is Survey Staff Manager managing Zachary, LA office and field staff for bathymetric surveying services at scheduled intervals upstream and downstream for multiple bridges throughout the State.

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**Louisiana Department of Transportation and Development**

**I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)**

Mr. King was the Survey Staff/Scanner Manager assisting with management of 7 sub-consultants with approximately 20 survey crews for topographic surveying services, HDS 3D Terrestrial Laser Scanning, Quality Level B, C, and D subsurface utility designating, and surveys in support of Quality Level B, C, and D subsurface utility designating for approximately 13 miles of I-10 and I-12 which included all surface streets, exit/entrance ramps, and drainage ways, including Ward's Creek, within the project limits. This project included Interstate right-of-way, major thoroughfares, local streets, drainage canals, and railroad right-of-ways.



**EDUCATION**

Instrumentation  
Design Drafting,  
1990

VoTech AutoCAD,  
1991

VoTech Pipe  
Drafting, 1992

**PROFESSIONAL  
REGISTRATIONS**

Leica's LIDAR  
Scanning Courses  
and Cyclone  
Software Courses,  
2013

**LOCATION**

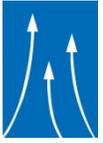
Zachary, Louisiana

**TOTAL YEARS OF  
EXPERIENCE**

30

**YEARS WITH  
NTBA**

14



## MIKE J. KING, PLS, RPLS

### Project Manager

Mr. Mike King has 16 years of experience performing and processing data for bathymetric, topographic, property, right-of-way surveys, surveys in support of subsurface utility engineering services, establishing benchmarks, and GPS Control Networks for state, federal, local, and private agencies. Trained under the direction of Grant Gilleon, Mike will serve as the Project Manager for bathymetric surveying services and data processing for this project. Mike has worked in many different jurisdictions under many different regulations allowing him to adapt quickly and efficiently to any new regulations wherever he may be working. He will become familiar with the project requirements prior to any work commencing and ensure that his crews are adhering to those standards

### KEY PROJECT EXPERIENCE:

#### Louisiana Department of Transportation and Development

##### IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)

Mr. King is the Assistant Project Manager assisting in management and data processing of bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State. Bathymetric survey duties include the training of field personnel; preparation of sketches of the water body surveyed; reduction of chart data from depths to elevations; preparation of a data chart with the depths, elevations, and locations of the data obtained; and preparation of written reports on each survey noting field conditions and findings. Mike submits all charts, field notes, photographs, data charts, sketches, and reports electronically to the State's ProjectWise site.

#### Balar Associates, Inc.

##### Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (2020)

Mr. King was the Assistant Project Manager assisting in management and data processing of bathymetric surveying services in support of a directional bore design for the Oil City, LA Water Transmission Main. **NTBA's** field crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining depths and elevations at 20' intervals for a total distance of 1,100 feet. **NTBA** provided the client with a point file, a PDF of the cross section, and an ACAD drawing of the plan/ profile of the cross section.

#### GWS Engineering, Inc.

##### Cessna Street Drone Surveying Services, Ascension Parish, LA (2020)

Mr. King was the Assistant Project Manager assisting in management and data processing of horizontal and vertical control, aerial target placement, and drone aerial mapping survey services as part of a fill mitigation project for a 46-acre proposed subdivision. **NTBA** utilized drone technology to create a ground surface showing building pads, road base and pond construction to date to compare with the existing ground surface prior to dirt movement in order to determine the amount of fill mitigation that was still required.

#### Louisiana Department of Transportation and Development

##### I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)

Mr. King was the Assistant Project Manager assisting in management and data processing for topographic surveying services, HDS 3D Terrestrial Laser Scanning, and surveys in support of Quality Level B, C, and D subsurface utility designating/locating for approximately 13 miles of I-10 and I-12. This project included Interstate right-of-way, major thoroughfares, local streets, drainage canals, and railroad right-of-ways.



### EDUCATION

BS, Construction Management, Louisiana State University, 2012

### PROFESSIONAL REGISTRATIONS

Registered Professional Land Surveyor (LA & TX)  
ATSSA Flagger and TCS

### LOCATION

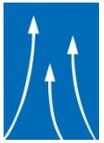
Zachary, Louisiana

### TOTAL YEARS OF EXPERIENCE

16

### YEARS WITH NTBA

14



**GRANT H. GILLEON, PLS, PS**

**Quality Control Surveyor**

Mr. Grant Gilleon has 32 years of experience performing and managing flood control and restoration projects. His experience includes flood inundation data collection, bathymetric, topographic, property, right-of-way surveys, and GPS Control Networks for state, federal, local, and private agencies. Grant has worked his way up from Rodman, Instrument Man, Survey Party Chief, and Technician to PLS-in-Charge of surveys in his career. Since 2009, Grant has managed four and currently manages his fifth Hydrographic Survey Contract for the Louisiana Department of Transportation and Development including the field crew, training, file processing, and submittals. He will be the Quality Control Surveyor for the bathymetric, magnetometric, and stump surveys of University Lakes. He will also be available to assist with data processing and report preparation if the need arises.

**KEY PROJECT EXPERIENCE:**

**Louisiana Department of Transportation and Development**

**IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)**

Mr. Gilleon is the Project Manager directing bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State currently totaling 200 tasks. Bathymetric surveying duties include the training of field personnel; preparation of sketches of the water body surveyed; reduction of chart data from depths to elevations; preparation of a data chart with the depths, elevations, and locations of the data obtained; and preparation of written reports on each survey noting field conditions and findings. Grant submits all charts, field notes, photographs, data charts, sketches, and reports electronically to the State’s ProjectWise site.

**Balar Associates, Inc.**

**Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (2020)**

Mr. Gilleon was the Project Manager directing bathymetric surveying services in support of a directional bore design for the Oil City, LA Water Transmission Main. **NTBA’s** field crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining depths and elevations at 20’ intervals for a total distance of 1,100 feet. **NTBA** provided the client with a point file, a PDF of the cross section, and an ACAD drawing of the plan/ profile of the cross section.

**Louisiana Department of Transportation and Development**

**Retainer Contract for Hydrographic Monitoring of Existing Bridges Statewide, LA (2016 – 2018)**

Mr. Gilleon was the Project Manager directed bathymetric surveys at scheduled intervals upstream and downstream for bridges throughout the state including tasks for emergency bathymetric surveys to access possible scour damage done by the historical floods in Baton Rouge in August 2016. Bathymetric survey duties include training of field personnel, preparation of sketches of the water body surveyed; reduction of chart data from depths to elevations; preparation of a data chart with the depths, elevations and locations of the data obtained; preparation of written reports on each survey noting field conditions and findings. Grant submitted all charts, field notes, photographs, data charts, sketches and reports electronically to the State’s ProjectWise site.



**EDUCATION**

BS, Construction Engineering Technology, University of Southern Mississippi, 1987

**PROFESSIONAL REGISTRATIONS**

Registered Professional Land Surveyor (LA, MS, & AL)

ATSSA TCS

**LOCATION**

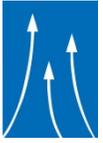
Shreveport, Louisiana

**TOTAL YEARS OF EXPERIENCE**

32

**YEARS WITH NTBA**

12



## SPENCER RIMES,

### Data Technician

Spencer has 9 years of experience processing data for bathymetric, topographic, property, and right-of-way surveys as well as data in support of subsurface utility designating. He has been trained in Bentley InRoads, AutoCAD, and ArcGIS Software applications. Mr. Rimes has produced Quality Level B and D maps for various different entities utilizing both Microstation and ArcGIS. He will assist with the processing of all bathymetric surveying data, training of staff, as well as prepare any ArcGIS drawings or maps. If the need should arise, Spencer can also act as a survey party chief and perform the bathymetric, magnetometric, and stump surveys. Spencer has worked in many different jurisdictions under many different regulations allowing him to adapt quickly and efficiently to any new regulations wherever he may be working. He will become familiar with the project requirements prior to any work commencing and ensure that his crews are adhering to those standards.

### KEY PROJECT EXPERIENCE:

#### Louisiana Department of Transportation and Development

##### IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)

Mr. Rimes is the Data Technician processing field data for bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State. Bathymetric survey duties include the training of field personnel; preparation of sketches of the water body surveyed; reduction of chart data from depths to elevations; preparation of a data chart with the depths, elevations, and locations of the data obtained; and preparation of written reports on each survey noting field conditions and findings. Spencer submits all charts, field notes, photographs, data charts, sketches, and reports electronically to the State's ProjectWise site.

#### Balar Associates, Inc.

##### Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (2020)

Mr. Rimes was the Data Technician processing field data for bathymetric surveying services in support of a directional bore design for the Oil City, LA Water Transmission Main. **NTBA's** field crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining depths and elevations at 20' intervals for a total distance of 1,100 feet. **NTBA** provided the client with a point file, a PDF of the cross section, and an ACAD drawing of the plan/ profile of the cross section.

#### Louisiana Department of Transportation and Development

##### I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)

Mr. Rimes was the Data Technician processing field data for scanning surveying services of the drainage and sanitary sewer systems as well as map preparation for subsurface utility designation services throughout the approximately 13 miles of the project. He processed field data, imported field information into ArcGIS and Microstation, and produced Quality Level D maps from utility companies records utilizing ArcGIS. This project included Interstate right-of-way, major thoroughfares, local streets, drainage canals, and railroad right-of-ways.



### EDUCATION

Louisiana State University, MBA, Landscape and Architecture, 2009

### PROFESSIONAL REGISTRATIONS

None

### LOCATION

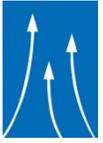
Zachary, Louisiana

### TOTAL YEARS OF EXPERIENCE

9

### YEARS WITH NTBA

4



**WILLIAM WALES,**

**Survey Party Chief**

William has over 27 years of experience performing a variety of surveying services involving bathymetric, magnetometric, oil, gas, topographic, easement, boundary, property, right-of-way, and surveys in support of subsurface utility engineering. Will is one of our bathymetric surveying and HDS 3D Terrestrial Laser Scanning Party Chief in charge of performing the surveys as well as training other staff. He will be one of the Party Chiefs for the bathymetric surveys of University Lakes. Will has worked in many different jurisdictions under many different regulations allowing him to adapt quickly and efficiently to any new regulations wherever he may be working. He will become familiar with the project requirements prior to any work commencing and ensure that his crews are adhering to those standards

**KEY PROJECT EXPERIENCE:**

**Louisiana Department of Transportation and Development**

**IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)**

Mr. Wales was a Survey Party Chief running a field crew for bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State. Tasks consist of running range lines at predetermined stations over the water and on the banks and recovering baseline and pre-determined range lines utilizing LaDOTD benchmarks, determining water elevations, performing fathometer bar check to ensure correct speed of sound, running and charting predetermined range lines, obtaining marks at predetermined distances along the range lines, and obtaining photographs of the bridge and any debris or adverse conditions. Mr. Wales also prepares sketches of the water body surveyed, reduces chart data from depths to elevations, prepares a data chart with the depths, elevations, and locations of the data obtained, and assists with the preparation of written reports on each survey noting field conditions and findings.

**Balar Associates, Inc.**

**Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (2020)**

Mr. Wales was a Survey Party Chief running a field crew for bathymetric surveys in support of a directional bore design for the Oil City, LA Water Transmission Main. The crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining depths and elevations at 20' intervals for a total distance of 1,100 feet. **NTBA** provided the client with a point file, a PDF of the cross section, and an ACAD drawing of the plan/profile of the cross section.

**Louisiana Department of Transportation and Development**

**I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)**

Mr. Wales was a Survey Party Chief running a field crew for topographic surveys, HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of Quality Level B, C, and D subsurface utility designating/locating for approximately 13 miles of I-10 and I-12 which included all surface streets and exit/entrance ramps within the project limits. This project was completed in accordance with the most current edition of the Louisiana Location and Survey Manual and CI/ASCE Standard 38-02. This project included surveying within the Interstate right-of-way, major thoroughfares, local streets, drainage canals, and railroad right-of-ways within a congested urban area.

**EDUCATION**

High School Diploma, 1987

**PROFESSIONAL REGISTRATIONS**

ATSSA Traffic Control Supervisor and Technician

**LOCATION**

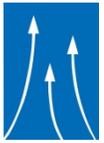
Zachary, Louisiana

**TOTAL YEARS OF EXPERIENCE**

27.5

**YEARS WITH NTBA**

7.5



**CHIP LECOQ,**

**Survey Party Chief**

Chip has been performing surveying services since 1996. He has 24 years of experience performing a variety of surveying services involving bathymetric, magnetometric, oil, gas, topographic, easement, boundary, property, right-of-way, and surveys in support of subsurface utility engineering. Chip is one of our bathymetric surveying Party Chiefs in charge of performing the surveys as well as training other staff. He will be a Party Chief for the bathymetric surveys of University Lakes. Chip has worked in many different jurisdictions under many different regulations allowing him to adapt quickly and efficiently to any new regulations wherever he may be working. He will become familiar with the project requirements prior to any work commencing and ensure that his crews are adhering to those standards.

**KEY PROJECT EXPERIENCE:**

**Louisiana Department of Transportation and Development**

**IDIQ Contract for Hydrographic Surveying Services Statewide, LA (2018 – Present)**

Mr. LeCoq is a Survey Party Chief running a field crew for bathymetric surveys at scheduled intervals upstream and downstream for multiple bridges throughout the State. Tasks consist of running range lines at predetermined stations over the water and on the banks and recovering baseline and pre-determined range lines utilizing LaDOTD benchmarks, determining water elevations, performing fathometer bar check to ensure correct speed of sound, running and charting predetermined range lines, obtaining marks at predetermined distances along the range lines, and obtaining photographs of the bridge and any debris or adverse conditions. Mr. LeCoq also prepares sketches of the water body surveyed, reduces chart data from depths to elevations, prepares a data chart with the depths, elevations, and locations of the data obtained, and assists with the preparation of written reports on each survey noting field conditions and findings.

**Balar Associates, Inc.**

**Caddo Lake Hydrographic Profile Survey, Caddo Parish, LA (2020)**

Mr. LeCoq was a Survey Party Chief running a field crew for bathymetric surveys in support of a directional bore design for the Oil City, LA Water Transmission Main. The crew obtained a cross section of the lake parallel to the LA Hwy. 1 bridge determining depths and elevations at 20' intervals for a total distance of 1,100 feet. **NTBA** provided the client with a point file, a PDF of the cross section, and an ACAD drawing of the plan/profile of the cross section.

**Louisiana Department of Transportation and Development**

**I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (2017 – 2020)**

Mr. LeCoq was a Survey Party Chief running a field crew for topographic surveys, HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of Quality Level B, C, and D subsurface utility designating/locating for approximately 13 miles of I-10 and I-12 which included all surface streets and exit/entrance ramps within the project limits. This project was completed in accordance with the most current edition of the Louisiana Location and Survey Manual and CI/ASCE Standard 38-02. This project included surveying within the Interstate right-of-way, major thoroughfares, local streets, drainage canals, and railroad right-of-ways within a congested urban area.

**EDUCATION**

High School  
Diploma, 1996

**PROFESSIONAL  
REGISTRATIONS**

ATSSA Traffic  
Control Supervisor  
and Technician

**LOCATION**

Zachary, Louisiana

**TOTAL YEARS OF  
EXPERIENCE**

24

**YEARS WITH  
NTBA**

4

**KAREN M. KENNEDY, PE**

**GWS PRESIDENT**

Karen Kennedy, is the President of GWS Engineering and will be involved in the project development including planning, scheduling, quality assurance and quality control. Karen will serve as the client liaison between NTBA and CPRA. Ms. Kennedy has more than 25 years' experience as a professional engineer working in both the municipal and private sectors on both engineering and surveying projects. Ms. Kennedy is highly proficient with AutoCAD Civil 3D, the LA-DOTD HYDR programs, Global Mapper and other technical software packages used in civil engineering and land surveying.

Having worked at GWS under a professional land surveyor, she has vast experience in the survey industry, coordinating topographic, boundary, ALTA and right of way surveys. In December 2019, she purchased GWS Engineering Inc, partnering with Matt Estopinal, PE, PLS and has continued working and gaining experience in the survey industry.

Her work experience includes design, contract administration, drainage impact studies, utility design, right-of-way plans, contract document preparation, construction supervision, and preliminary and final design for subdivisions, municipal projects, industrial parks and commercial developments. Her duties include coordination of staff, responsible charge of all plan production, all field inspections and the preparation of detailed constructions plans on all types of work.

Prior to her experience at GWS, Karen was involved in many infrastructure improvements projects in South Louisiana for municipalities including St. James Parish, St. John the Baptist Parish, Ascension Parish, and West Baton Rouge Parish.

**KEY PROJECT EXPERIENCE:**

**Gentilly Terrace North Group B and Group K Topographic Surveys (2020)**

Ms. Kennedy served as Principal In Charge for staffing, logistics, and QA/QC for topographic surveys completed on multiple roadways with the Gentilly Terrace area of New Orleans. Her QA/QC control included ensuring the projects were completed according to the New Orleans Department of Public Works Roadway Design Guide and the Plans and Design Review Checklist

**Cessna Street Drone Surveying Services, Ascension Parish, LA (2020)**

Ms. Kennedy served as Principal in Charge for staffing, logistics, and QA/QC for horizontal and vertical control, aerial target placement, and drone aerial mapping survey services as part of a fill mitigation project for a 46-acre proposed subdivision.

**Ascension Roadway Capacity Improvement Projects, LA (2000)**

Ms. Kennedy was the Project Manager for several Ascension Roadway Capacity Improvements projects. Her role included the development of the roadway standards, vertical and horizontal alignments, drainage improvements and using these parameters to determine the right of way requirements for each roadway. She was the Engineer of Record for the clearing and grubbing and roadway construction plans. She coordinated with the right-of-way acquisition team and local utility companies to obtain and prepare the right of way for the defined improvements. She also attended public meetings to present the projects to the residents affected by the improvements.



**EDUCATION**

BS, Civil Engineering, Minor in Environmental Engineering, 1995

**PROFESSIONAL REGISTRATIONS**

Registered Professional Engineer (LA)

**LOCATION**

Baton Rouge, Louisiana

**TOTAL YEARS OF EXPERIENCE**

25

**YEARS WITH GWS**

8

**MATT ESTOPINAL, PE, PLS**

**GWS Project Manager**

Mr. Matt Estopinal has more than 14 years of experience as a professional land surveyor in community development related projects. Mr. Estopinal is highly proficient with AutoCAD Civil 3D, including the built in analysis tools (Storm Sewers and Vehicle Tracking), the LA-DOTD HYDR programs, HydroCAD, Global Mapper and other technical software packages used in civil engineering and land surveying.

His work experience includes design, contract administration, drainage impact studies, utility design, right-of-way plans, contract document preparation, construction supervision, and preliminary and final design for subdivisions, municipal and state projects, athletic facilities, railroads, industrial parks and commercial developments. His duties include coordination of staff, responsible charge of all plan production, all field inspections and the preparation of detailed constructions plans on all types of work.

As a Professional Land Surveyor, he has prepared ALTA surveys, boundary, and topographic surveys. In his role in preparing these surveys, Mr. Estopinal is required to analyze and interpret right of way maps as they affect the properties' boundaries. He is the professional in charge for all surveying personnel and surveying related activities.

**KEY PROJECT EXPERIENCE:**

**Cessna Street Drone Surveying Services, Ascension Parish, LA (2020)**

Mr. Estopinal served as Project Manager of horizontal and vertical control, aerial target placement, and drone aerial mapping survey services as part of a fill mitigation project for a 46-acre proposed subdivision.

**Gentilly Terrace North Group B and Group K Topographic Surveys (2020)**

Mr. Estopinal served as Project Manager and Surveyor of Record for the completion of topographic surveys of multiple roadways within the Gentilly Terrace area of New Orleans. The scope of work included setting control, setting TBMS every 500 feet, collecting cross section data every 25 feet, collecting the top elevation of every catch basin, drop inlet, drain manhole and sewer manhole, utility locations obtained from LA One Call markings, and reference maps from the City of New Orleans Sewerage and Water Board.

**Water Campus Road, Baton Rouge, LA (2017 – 2019)**

While working as a Project Manager/ Senior Project Engineer with Stantec, Mr. Estopinal was the engineer of record for the drainage design of the Water Campus Road network which included both the rehabilitation of existing roads and the design and construction of new roads between Nicholson Drive and River Road south of I-10 in Baton Rouge. He additionally assisted in the geometric design of the road network, typical road sections and managed key personnel during plan production.

**Dijon Phase II Right-of-Way, Baton Rouge, LA (2019)**

Also while at Stantec, Mr. Estopinal was the Land Surveyor of Record for the Dijon Phase 2 Right-of-Way Maps (Constantin Blvd). He is knowledgeable of the Right-of-Way mapping process from initial data collection to plan production to the final project deliverables. This experience will prove valuable for the duration of this design project.

**Various Community Development Projects, Baton Rouge, LA (2005 – 2020)**

Mr. Estopinal has been the Engineer of Record for numerous residential subdivision developments and civil site projects, all of which have roadway, planning, and permitting components.



**EDUCATION**

BS, Microbiology,  
1996  
BS, Civil  
Engineering, 2009

**PROFESSIONAL  
REGISTRATIONS**

Registered  
Professional Land  
Surveyor (LA)  
Registered  
Professional  
Engineer (LA & FL)

**LOCATION**

Baton Rouge,  
Louisiana

**TOTAL YEARS OF  
EXPERIENCE**

15

**YEARS WITH GWS**

1

**JAMES D. KOONTZ,**

**GWS Survey Party Chief**

Mr. Koontz has served as Party Chief, Field Coordinator and Survey Technician for more than 30 years. He has extensive experience in performing boundary control, construction stakeout, as-built surveys, ALTA surveys, topographic, hydrographic and right of way surveys using both conventional and GPS techniques. Accuracy and completeness of data is of utmost priority. Mr. Koontz is proficient in the use of Robotic Total Station and Global Positioning equipment and software.

He has field surveying experience working on projects of varying size around the State. He has worked on topographic surveys of water features, including soundings, in support of engineering design for infrastructure projects and drainage impact studies and boundary surveys of large tracts of land to be developed.

**KEY PROJECT EXPERIENCE:**

**Gentilly Terrace North Group B and Group K Topographic Surveys, LA (2020)**

Mr. Koontz served as Party Chief for the completion of topographic surveys of multiple roadways within the Gentilly Terrace area of New Orleans, The scope of work included setting control, setting TBMS every 500 feet, collecting cross section data every 25 feet, collecting the top elevation of every catch basin, drop inlet, drain manhole and sewer manhole, utility locations obtained from LA One Call markings, and reference maps from the City of New Orleans Sewerage and Water Board.

**Sherwood Forest Boulevard Sidewalks (Coursey Boulevard to I-12) MOVEBR Project, LA (2020)**

Mr. Koontz is currently serving as Party Chief for the completion of topographic surveys for the MOVEBR Sherwood Forest Boulevard Sidewalks project. The scope of work includes a complete topographic survey of the route of the proposed sidewalk per the MOVEBR Design Guidelines.

**Midway Drive MOVEBR Project, LA (2020)**

Mr. Koontz is currently serving as Party Chief for the completion of topographic surveys for the MOVEBR Midway Drive project. The scope of work includes necessary topographic survey and control for completion of the Right of Way maps.

**Various Topographic and Boundary Surveys (1997 – 2020)**

As a member of the GWS survey crew, he has set control, set benchmarks, set corners and obtained topographic data for hundreds of ALTA surveys, boundary, and topographic surveys.

**Various Construction Stakeout Projects (1997 – 2020)**

As a member of the GWS survey crew, he has set control, benchmarks and staked hundreds of projects construction improvements.

**EDUCATION**

High School  
Diploma, 1988

**LOCATION**

Baton Rouge,  
Louisiana

**TOTAL YEARS OF  
EXPERIENCE**

34

**YEARS WITH GWS**

23

**CHARLES P. YOUNG**

**GWS Survey Party Chief**

Mr. Charles Young has served as Party Chief, Field Coordinator, and Survey Technician for more than 30 years. He has extensive experience in performing boundary control, construction stakeout, as-built surveys, ALTA surveys, topographic, hydrographic and right-of-way surveys using both conventional and GPS techniques. Accuracy and completeness of data is of utmost priority. Mr. Young is proficient in the use of Robotic Total Station and Global Positioning equipment and software.

Mr. Young is responsible for the oversight and coordination of the maintenance of all surveying equipment and coordination of field activities.

He has field surveying experience working on projects of varying size around the State. He has worked on topographic surveys of water features, including soundings, in support of engineering design for infrastructure projects and drainage impact studies and boundary surveys of large tracts of land to be developed.

**KEY PROJECT EXPERIENCE:**

**Gentilly Terrace North Group B and Group K Topographic Surveys, LA (2020)**

Mr. Young served as Party Chief for the completion of topographic surveys of multiple roadways within the Gentilly Terrace area of New Orleans, LA. The scope of work included setting control, setting TBMS every 500 feet, collecting cross section data every 25 feet, collecting the top elevation of every catch basin, drop inlet, drain manhole and sewer manhole, utility locations obtained from LA One Call markings, and reference maps from the City of New Orleans Sewerage and Water Board.

**Sherwood Forest Boulevard Sidewalks (Coursey Boulevard to I-12) MOVEBR Project, LA (2020)**

Mr. Young is currently serving as Party Chief for the completion of topographic surveys for the MOVEBR Sherwood Forest Boulevard Sidewalks project. The scope of work includes a complete topographic survey of the route of the proposed sidewalk per the MOVEBR Design Guidelines.

**Midway Drive MOVEBR Project, LA (2020)**

Mr. Young is currently serving as Party Chief for the completion of topographic surveys for the MOVEBR Midway Drive project. The scope of work includes necessary topographic survey and control for completion of the Right of Way maps.

**Various Topographic and Boundary Surveys, LA (1996 – 2020)**

As a member of the GWS survey crew, he has set control, set benchmarks, set corners and obtained topographic data for hundreds of ALTA surveys, boundary, and topographic surveys.

**Various Construction Stakeout Projects, LA (1996 – 2020)**

As a member of the GWS survey crew, he has set control, benchmarks and staked hundreds of projects construction improvements.

**EDUCATION**

High School  
Diploma, 1984

**LOCATION**

Baton Rouge,  
Louisiana

**TOTAL YEARS OF  
EXPERIENCE**

33

**YEARS WITH GWS**

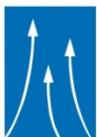
24

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



NTB Associates, Inc.

## Project Understanding & Work Plan



NTB Associates, Inc.

Surveyors • GIS • Engineers

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## PROJECT UNDERSTANDING AND WORK PLAN



**NTB Associates, Inc.**  
Surveyors • GIS • Engineers  
[www.ntbainc.com](http://www.ntbainc.com)

**NTBA** has a strong commitment to quality service and client satisfaction as demonstrated in all of our current and previous projects. Our high percentage of repeat clients also demonstrates our strong client relationships and quality of our projects. **NTBA** has established a Quality Assurance (QA) Program in an effort to provide a systematic method to maintain the highest quality professional services to our clients. The purpose of each project is unique with varying scopes and differing conditions. However the nature of the work is the same, to provide the appropriate bathymetric surveying services in the required platform in order to provide the client with the information that they require to design a quality project with minimal construction surprises. Each team member is aware of the QA Program and understands how significant maintaining quality is to our clients. The **NTBA** QA Program establishes our commitment to continual quality improvement. The QA Program is a living, breathing part of our firm.

**NTBA** recognizes the importance of understanding the amount of sediment on the bottom of the individual lakes in the University Lakes System so that an appropriate dredging design can be accomplished. Methods of dredging vary depending on amount of sediment or fluff layer to be removed as well as the depth to the consolidated lake bottom. Without accurate information on the amount of fluff layer or the depth to the consolidated lake bottom, an appropriate dredging plan cannot be developed. **NTBA** strives to provide the most accurate information



State Library of Louisiana (<http://www.state.lib.la.us>)

Since the lakes were created from swamp land donated to Baton Rouge and the LSU Communities almost 100 years ago, a safe assumption is that trees were cutoff and stumps are present throughout the lake system. **NTBA** recognizes the importance of determining the density of tree stumps that exist throughout the University Lakes System. Dredging methods need to be selected depending on the size, density, and location of tree stumps on the lake bottoms. The shallow nature of the lakes presents a limited availability of methods and equipment to get an accurate understanding of the tree stumps still present on the lake bottom. **NTBA** will utilize the latest in unmanned technology to gather the data needed to present the most accurate information in

order to assist in selecting the best dredging method available.

Our Quality Assurance Program ensures the successful completion of your projects meeting the requirements of economy, constructability, safety, and quality. All employees from Surveyors to Party Chiefs to rodmen on the survey crew are made aware of why we are doing this project. Each lake will be unique and will require differing equipment and approaches in order to provide the most accurate information available for the design.

**NTBA** will coordinate with other consultants for survey control prior to beginning any bathymetric work on this project. **NTBA** and our sub-consultant GWS Engineering are also proposing as a sub-consultant on the general services contract for topographic surveying services. If selected as part of the winning general services team, we would be establishing the survey control for the project therefore greatly reducing the amount of coordination and time needed to commence work on the project. **NTBA** also has extensive control established in the area around City Park Lake from a recent surveying project along I-10 allowing us to

reduce the time needed for establishing control. The horizontal datum used for the project will be NAD 83 (2011) Epoch 2010.00 Louisiana State Plane Coordinate System South Zone (1702), US Feet. **NTBA** will verify the horizontal control for the project using NTRIP service LEICA SmartNET. The vertical datum used for this project will be NAVD 88, Geoid 12A. We will work closely with the consultant providing survey control to beginning the project promptly upon notice to proceed.

After coordinating control for the project, **NTBA** will coordinate with the Project Advisor for a mobilization time frame. It is our understanding from the RFP that we shall not mobilize until the geotechnical contractor has collected and marked the location of the cores of the lake bottom. However, **NTBA** would like to start the bathymetric survey immediately after control establishment and gather the location of the geotechnical cores separately. We believe that this will save time on the overall schedule as well as provide for better survey results before the bottom of the lake is disturbed. Performing the bathymetric survey prior to geotechnical investigations disturbing the lake bottom will provide for a better result as the additional sediment disturbed by geotechnical investigations will produce unnecessary noise in the scans; therefore making it more difficult to determine the actual top of fluff layer and bottom of lake.

Because of the shallow water levels, conventional bathymetric surveying equipment mounted to a manned water craft are not a feasible or safe option for this survey. **NTBA** plans to use an unmanned Teledyne Zboat 1800 w/ Dual antenna GPS Dual frequency Sounder and 33/200khz Transducer/Hypack to perform the bathymetric surveys to determine the depth and profile of the fluff layer and lake bottom. This allows for crews to operate the unit remotely and provides real-time data giving the operator total control over the survey process. Real-time data allows for crews to adjust settings or procedures in the field thereby reducing the number of repeat surveys that may be needed in order to correct anomalies with the data. This unit will allow easy access to the small lakes which may have more limited access for launching of traditional boat mounted equipment. Navigation is provided using GNSS position and heading all available onboard the vessel.



**NTBA** feels that the East to West transects every 200 feet from North to South on City Park Lake and University Lake will be sufficient to provide an accurate representation of the fluff layer and lake bottom. However, on the smaller, narrower lakes, **NTBA** proposes to run transects every 100 feet perpendicular to a line along the longest portion of the lake to more accurately represent the actual conditions. For example, with 200 foot transects Lake Erie would only require approximately 3-4 transects since the lake is approximately 650 length. As **NTBA** is proposing, there would be approximately 6-7 transects performed in a more northwest to southeast direction on Lake Erie providing for double the data and across the widest portion of the lake allowing for a better representation of the differences in the fluff layer and lake bottom. All of the bathymetric surveys would be completed prior to any stump surveys or magnetometer work being performed.

A bar check or calibration will be done daily before any soundings are taken and it will be recorded on the charts. The speed of sound and the draft will be noted on the sounding chart. A plate test will be performed which is a replicable process that ensure all systems are operating properly and verified the offsets have been correctly entered. The plate depth of the final processed data is compared by using the GNSS receiver. Top of water elevation will be surveyed from a predetermined benchmark for each lake at the beginning of the survey and at 3 hour intervals thereafter. If sizeable differences are noted, using standards of practice,

adjustments will be made in the reduction of the field notes for final elevations and depths. Profiles will be created along each transect utilizing survey points every 10 feet along each transect.

**NTBA** has performed single beam bathymetric surveying services on each side of the I-10 bridge in City Park Lake as part of a LADOTD project therefore allowing us to have recent historical data to compare with the new data as an additional quality control check. We have also performed 3D Terrestrial Scanning of the entire I-10 bridge structure. This coupled with the additional data gathered during this project will provide for an extensive view of what is occurring around the bridge crossing the lake allowing for a better dredging design and will provide a short history of the changing conditions in the area. This coupled with the partnership with GWS Engineering and the general services proposal team will provide for a far superior quality control process



Magnetometric surveys utilizing the SeaSPY Towfish Marine Magnetometer will be performed after the completion of the bathymetric survey but along the same transects as proposed above. **NTBA** performs Subsurface Utility Engineering services as well, therefore we propose to do Quality Level D records research for the area surrounding the lakes to determine if there are any areas that are more probable to have underground lines than others. We already have extensive utility information on the City Park Lake area from a recent project along I-10 which will give us a jump on identifying any metallic utilities in that area. Additional transects may be added or transects shifted after review of the utility information to ensure that during the magnetometer survey we are providing the best opportunity for locating any obstructions that may be present.



For the stump survey, **NTBA** plans to use the same unmanned Teledyne Zboat 1800 as from the bathymetric survey except with a w/Multibeam set up to get a swath along the transects as opposed to the single line in the bathymetric survey. Because of the shallow nature of the various lakes, **NTBA** will perform transects on a tighter footage but in smaller areas in order to develop a density of stumps in a particular area. From there we will extrapolate the density across the remainder of the lakes to give a best fit sampling of what can be expected to be encountered as far as tree stumps. We will prepare an exhibit showing the densities of the various lakes allowing for an understanding of what may be encountered during

the dredging operations.

Geotechnical boring location will be gathered from our small flat bottom boat with trolling motor and gathered with Leica L1/L2 GPS receivers. This work can be done concurrently with the bathymetric or magnetometric surveys. This information will be combined into the plan view CADD drawings for incorporation in the final submittal.

Data is downloaded every night and logged into the data download book. The office processes data daily for a cursory check of the line work, gaps and/or overlaps by the crews in each day's work. Data will be merged into the Master file. Periodically, the drawings are reviewed for completeness and connectivity on a total segment or total project scale so that there is very little if any connectivity issues when all files are combined. With all of this data merged into the drawings, interim submittals will be made to the client until such time as a complete survey submittal can be made, if desired.



All boat operators or captains have completed Boating Safety Course and have a certificate on file. All safety procedures begin with The Manual of Uniform Traffic Control Devices. All crews wear safety vests, put out the proper signage and follow all applicable traffic laws. **NTBA** provides weekly “tool box meetings” in which pertinent safety issues are discussed every Tuesday morning before crews are released to the project. **NTBA** will utilize a range of well-maintained and calibrated equipment and collection techniques to complete this project.

Below is a comprehensive table of our available equipment that we feel will be best suited to accomplish the services required by during this contract. We also have the ability to rent or purchase any equipment that may be required but not currently owned by **NTBA**.

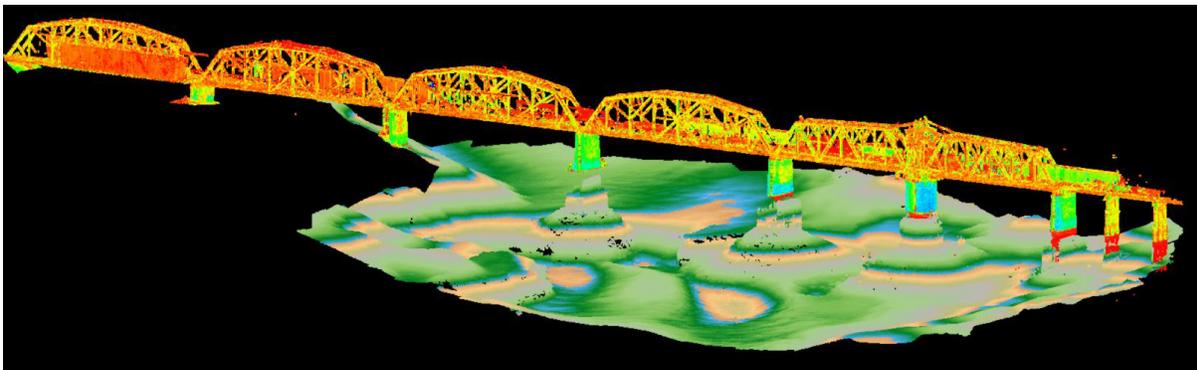
Equipment
Fully Equipped Survey Trucks
20' X 6' Cabin V Bottom Workboat Model 2072CV
17' Alumacraft Boat Model-1756
Teledyne Zboat 1800 w/ Dual antenna GPS Dual frequency Sounder and 33/200khz Transducer/hypack
Teledyne Zboat 1800 w/Multibeam set up
SeaSPY Towfish Marine Magnetometer
Teledyne/Odom Hydrotrac
HTS7001 Fathometer
NORBIT iWBMS w/ Narrow TX - Sonar/INS Survey Sensor Kit
NORBIT Profiler & Reel – Base X Profiler Instrument w/ WIFI & GPS
Portus Pole – Mini Mount Pole Kit
6" Single Beam Transducer TR6014
Teledyne Odom MB2 Multibeam Echosounder
SenseFly eBee X Fixed-Wing Drone
DJI Mavic 2 Enterprise Dual Thermal Drone
Leica P50, C10, and BLK 360 Laser Scanners
L1/L2 GPS Static and RTK Receivers
Total Stations
Leica CS 20 and Trimble TSC3 Data Collectors
Digital and Automatic Levels & Rods
Standard Bar Checks
Push Rods with Sonde
Kubota and Polaris Rangers w/ Trailers

The firm maintains state-of-the-art computer systems to provide our professionals with the automation needed in today's ever-changing world and to meet the demands of our clients. Below is a comprehensive table of our available software that we feel will be best suited to accomplish the services during this contract.

Software
HYPACK Software
ProjectWise Explorer Client V8i (Series 4) Edition
NORBIT OEM Version – HYSWEEP Software
Bentley Passport License
Cyclone Processing Software
Microstation
Bentley InRoads
AutoCAD Civil 3D
ACAD Recap
Cogowin
Pix4D Mapper
Global Mapper
ESRI ArcView/Map
Trimble Business Center
Microsoft Office Suite
Leica Infinity
MS Projects

**NTBA** will coordinate with the project advisor and/or their personnel immediately upon receiving the project award to schedule the initial meeting to discuss timelines associated with the project and/or any necessary revisions. A preliminary schedule based on the information within the RFP is attached at the end of this section. **NTBA** created our project schedule inclusive of all intermediate submittal dates along with the final project delivery date by utilizing MS Projects. **NTBA** holds internal progress meetings, either in person or virtually, at least once a week to identify project concerns and completeness within the portions assigned to various personnel. **NTBA** will schedule progress meetings with the project advisor, at times of their choosing, for submittal of progress reports and percentages complete, throughout the life of the project. Progress meetings can be held in person or virtually on a platform of their choosing.

Our firm understands that communication, not only within **NTBA** but with project advisor personnel, is extremely important to the overall success of a project. By identifying issues immediately and devising solutions to these issues, we keep the project moving, on schedule, and within budget. Constant communication is the only way to accomplish this, either in person or virtually. In today's technology age, communication with parties in different locations can be accomplished quickly and efficiently anywhere at any time. **NTBA** believes that this will lead to a strong working relationship with the project team and lead to accomplishing the project with the best possible results within the established schedule and budget.



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



NTB Associates, Inc.  
**Current Backlog & Ability  
to Conform to Schedule**



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## CURRENT BACKLOG AND ABILITY TO CONFORM TO SCHEDULE



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There is no current backlog or gaps in staff that prevents **NTBA's** team from providing bathymetric and stump identification surveying services to University Lakes, LLC. We are working well below our maximum firm workload level. We will use trained and experienced

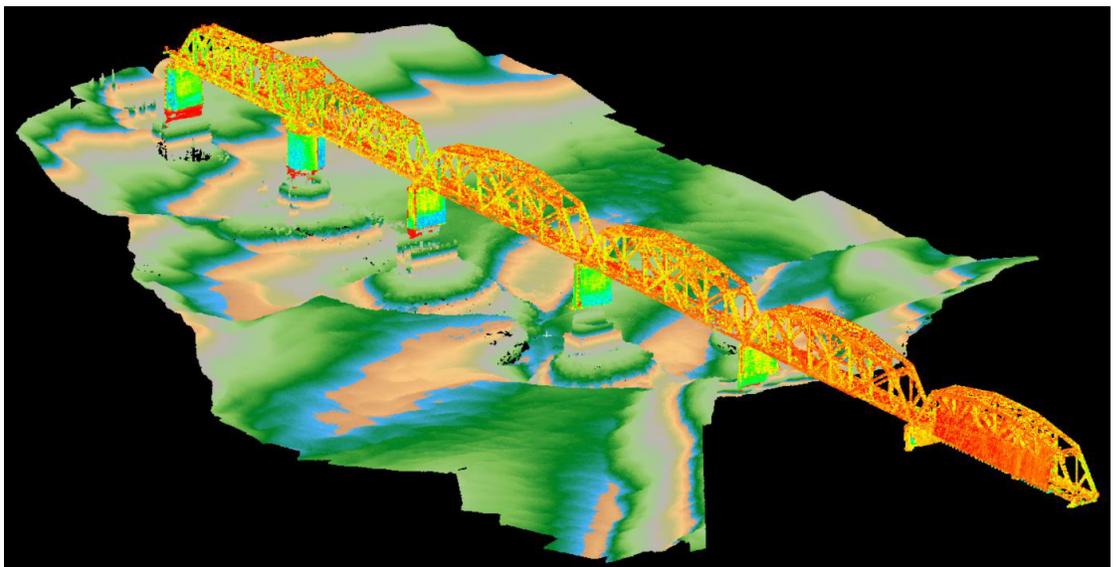
licensed surveyors, engineers, technicians, and support staff to meet your projects schedules and needs. With 85 employees and offices located in 5 different states, **NTBA** has the flexibility to provide additional services from other locations as needed to complete the project on time and within budget.

**NTBA** will coordinate with University Lakes, LLC personnel & their advisors immediately upon receiving the project award to schedule the initial meeting to discuss timelines associated with the project and/or any necessary revisions. Once the time frame and budget for project delivery is established, **NTBA** creates our project schedule inclusive of all intermediate submittal dates and budget milestones along with the final project delivery date by utilizing MS Projects. **NTBA** holds internal progress meetings, either in person or virtually, at least once a week to identify project concerns and completeness within the portions assigned to various personnel. **NTBA** will schedule progress meetings with University Lakes, LLC & their advisors at times of their choosing, for submittal of progress reports and percentages complete, throughout the life of the project. Progress meetings can be held in person at our Zachary, LA office or virtually on a platform of your choosing.

Our team is qualified and capable of completing assignments of this magnitude while meeting all requirements and deadlines listed in the RFQ. We have the current capacity to complete the work quickly and efficiently while keeping open lines of communication with University Lakes, LLC & their advisors with project updates and swift conflict resolution. We have long established working relationships with local, state and federal agencies to deliver projects efficiently and within schedule and budget. We have performed work in the City Park Lake, Dalrymple Drive, and East Lakeshore project area providing us with prior knowledge of these areas as well as the challenges that will be faced when working within these areas.

**NTBA** will utilize our specific approach to public projects in order to meet the schedule and deadlines associated with this project that we have implemented and proven to be highly successful on past projects. The best example of this approach was our recent project with LaDOTD on the I-10 LA 415 to Essen Lane

project in which **NTBA** was the prime consultant and in direct supervision and control of 7 sub-consultants for the 13-mile project with multiple project milestones. **NTBA** utilized MS Projects to track not only the overall project schedule and budget but to also track that of each of its 7 sub-



consultants. This project was completed ahead of schedule and within budget.

ID	Task Name	Duration	Start	Finish	Jan 10, '21	Jan 17, '21	Jan 24, '21	Jan 31, '21	Feb 7, '21	Feb 14, '21	Feb 21, '21	Feb 28, '21	Mar 7, '21	Mar 14, '21	Mar 21, '21	Mar 28, '21	Apr 4, '21	Apr 11, '21	Apr 18, '21	Apr 25, '21				
1	Bathymetric Survey	4 wks	Mon 1/11/21	Fri 2/5/21	█																			
2	Magnetometer	4 wks	Mon 2/8/21	Fri 3/5/21									█											
3	Stump Survey	4 wks	Mon 3/8/21	Fri 4/2/21													█							
4	Geotechnical Bore Location	8 wks	Mon 1/18/21	Fri 3/12/21	█																			
5	Data Processing	12 wks	Mon 1/11/21	Fri 4/2/21	█																			
6	Submittal Preparation	3 wks	Mon 4/5/21	Fri 4/23/21																█				

Project: Univ. Lakes Date: Thu 11/19/20	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Progress	
	Milestone		External Milestone		Manual Task		Start-only			
	Summary		Inactive Task		Duration-only		Finish-only			

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



NTB Associates, Inc.

## Schedule C – Certification Statement



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## 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	Official Contact Name: Mike King, Project Manager
A. E-mail Address:	mking@ntbainc.com
B. Facsimile Number with area code:	( 225 ) 751-4006
C. US Mail Address:	8643 Main Street, Zachary, LA 70791

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](http://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: Paul B. Rossini  
Title: President  
Company Name: NTB Associates, Inc.  
Address: 525 Louisiana Ave.  
City: Shreveport State: LA Zip: 71101

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

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



NTB Associates, Inc.

## Part III – Acknowledgment of Receipt



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**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: NTB Associates, Inc.

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 

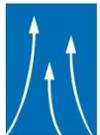
PRINTED NAME: Paul B. Rossini TITLE: President

DATE: 11/20/2020

End of Addendum



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



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**November 20, 2020**