Statement of Qualifications

DOTD Form 24-102

Louisiana Department of Transportation and Development

Contract Nos. 4400024650, 4400024651, 4400024652, 4400024653,4400024654, 4400024655, 4400024656 AND 4400024657

IDIQ Contracts for Professional Geotechnical Services Statewide

June 28, 2022

11955 Lakeland Park Blvd., Suite 100
Baton Rouge, Louisiana 70809

Telephone: 225.293.2460
www.geoengineers.com

Project Manager: Larry Sant, PE
LSant@geoengineers.com

Principal: James Aronstein, PE
JAronstein@geoengineers.com

DOTD FORM: 24-102

(Revised March 1, 2022)

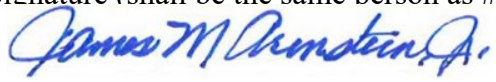
PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	**IDIQ Contracts for Geotechnical Services Statewide** Advertised: 6.6.22
2. Contract number(s) as shown in the advertisement	Contract Nos. 4400024650, 4400024651, 4400024652, 4400024653,4400024654, 4400024655, 4400024656 AND 4400024657
3. State Project Number(s), if shown in the advertisement	
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	GeoEngineers, Inc. GeoEngineers
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0003700
6. Prime consultant mailing address	GeoEngineers, Inc. 11955 Lakeland Park Boulevard, Suite 100 Baton Rouge, Louisiana 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	11955 Lakeland Park Boulevard, Suite 100 Baton Rouge, Louisiana 70809
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Larry Sant, PE, Associate I 225.663.1522 (Office);509.570.6081 (Cell) I Lsant@geoengineers.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	James M. Aronstein, Jr., PE, Principal I 225.293.2460 (Office); 225.921.0817 (Cell) I jaronstein@geoengineers.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9):  Date: 06.28.2022
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): Adaptive Management and Engineering Firm(s)' %: 2%

12. Past Performance Evaluation Discipline Table:

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

The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. The crosswalk from the old categories to the new categories can be found at the link below:
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New%20Evaluation%20Disciplines.pdf

Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract. (Add rows and columns as needed)

Evaluation Discipline(s)	% of Overall Contract	Prime **GeoEngineers**	Firm B **LandSource, Inc.**	Firm C **Adaptive Management & Engineering, LLC**	Firm D	Firm E	Each Discipline must total to 100%
Geotech	98%	97%		3%			100%
Survey	2%		100%				100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	100%	96%	2%	2%			100%

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (xxxx)" and include the classification title inside the parentheses.

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
GeoEngineers, Inc.	Administrative	1	4
GeoEngineers, Inc.	CADD Technician	0	1
GeoEngineers, Inc.	Driller	3	3
GeoEngineers, Inc.	Engineer	2	9
GeoEngineers, Inc.	Engineer Intern	1	3
GeoEngineers, Inc.	Environmental Pro	0	3
GeoEngineers, Inc.	Principal	5	6
GeoEngineers, Inc.	Sr. Technician	1	1
GeoEngineers, Inc.	Technician	1	11
Adaptive Management and Engineering, LLC	Principal	1	1
Adaptive Management and Engineering, LLC	Engineer	1	1
Adaptive Management and Engineering, LLC	Engineer Intern	1	1
Adaptive Management and Engineering, LLC	Senior Technician	1	1
Adaptive Management and Engineering, LLC	Driller	1	1
Adaptive Management and Engineering, LLC	CADD Drafter	1	1
Adaptive Management and Engineering, LLC	Technician	1	1
LandSource, Inc.	Surveyor	1	2
LandSource, Inc.	CADD Technician	1	4
LandSource, Inc.	Clerical	1	3
LandSource, Inc.	Instrument Man	1	4
LandSource, Inc.	Party Chief	1	4

(Add rows as needed)

14. Organizational Chart:

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13.

If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20.

It is acceptable to use an 11x17 format for Section 14.

15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1-3	James M. Aronstein Jr., PE, Senior Principal	GeoEngineers, Inc.	Professional Engineer / 11794	LA	3.31.2023
	David P. Sauls, PE Senior Principal	GeoEngineers, Inc.	Professional Engineer / 23270	LA	3.31.2023
	Larry D. Sant, PE Associate Geotechnical Engineer	GeoEngineers, Inc.	Professional Engineer / 35625	LA	9.30.2022
	Blake Cotton, PE Senior Principal	GeoEngineers, Inc.	Professional Engineer / 28039	LA	3.31.2023
4	Wendy Allen, Laboratory Manager	GeoEngineers, Inc.	N/A	N/A	N/A
	Karen Allen, Quality Assurance Manager	GeoEngineers, Inc.	N/A	N/A	N/A
	Justin Ator, CET	Adaptive Management and Engineering, LLC	CET, 139594	LA	2/1/2024
5	Greg Adams, Drilling Services Manager	GeoEngineers, Inc.	Water Well Contractor / 724	LA	6.30.2023
	Michael McKinney	Adaptive Management and Engineering, LLC	Water Well Contractor / 867	LA	6.30.2022

16. Staff Experience:

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

Firm employed by GeoEngineers					
Name	**James M. Aronstein, Jr., PE**			Years of relevant experience with this employer	52
Title	Principal Geotechnical Engineer			Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			B.S. | 1965 | Civil Engineering		
Active registration number / state / expiration date			Professional Engineer: Civil and Environmental #11794 | LA | 3/31/23 Professional Land Surveyor: #458 | LA | 3/31/2023		
Year registered	1969	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Principal-In-Charge		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).				
James "Jim" Aronstein has provided geotechnical services on private, industrial, and public facilities since 1969, with extensive, significant expertise in the transportation industry. He has been the engineer of record for the majority of GeoEngineers' Louisiana road and bridge projects over the past 30 years, including LADOTD statewide retainer contracts for geotechnical investigations and project-specific programs. His projects include the I-210 at Cove Lane Interchange; I-49/US90 Widening over LA182 and BNSF Railroad Design-Build; 37-mile extension of I-49 North through Louisiana, I-220 to the Arkansas state line; Rigolets Pass Bridge project on US 90; numerous off-system bridge sites for LADOTD through local consultants; and work on the East Baton Rouge Parish Green Light roads and streets improvements plan. Jim's role has involved managing and executing engineering analyses and reports, field exploration, site access, drilling technology evaluation, exploration conduct, laboratory test assignments, and quality control of the generated work product.					
01/19 - ongoing	**S.P. H.011670: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA:** GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Jim is serving as Principal-in-Charge.				
05/18 - ongoing	**S.P. H.003370: LA DOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA, Bossier Parish, LA:** Jim is the Principal-in-Charge for GeoEngineers' OV/QA role in this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.				
08/17 – 11/20	**S.P. H.009250: LA DOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA:** Jim is the Principal-in-Charge for GeoEngineers' OV/QA role in this highly-anticipated I-10 project that involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.				
04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange Design Build, St. Mary Parish, LA:** Jim was the principal-in-charge during this design-build project in support of the proposed Interchange on US90 at LA318.				

	GeoEngineers performed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.
02/13 – 04/13	**S.P. H.010620: LA DOTD, I-49/US90 Widening over LA182 and BNSF Railroad, Lafayette, LA:** A Louisiana DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Jim was the principal-in-charge in conducting **bridge and roadway borings**, and laboratory tests in support of design of this bridge and roadway widening project located just south of Lafayette. GeoEngineers completed **119 borings** for the project on a **fast-track schedule** utilizing multiple drill rigs to meet the deadline.
08/12 – 04/15	**S.P. H.010151: LA DOTD, I-210 at Cove Lane Interchange, Lake Charles, LA:** Jim was the principal-in-charge during this fast-track design and construction project in support of the proposed Interchange on I-210 atCove Lane. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about **8,000 driven pile** foundations, **MSE walls**, and **wick-drain/surcharge** design to reduce post-construction embankment **settlement**, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided **PDA** evaluation of the piles during installation, and installed liquid **settlement sensors** to monitor embankment settlement.
01/10 – 12/12	**S.P. 454-02-0071: LA DOTD, I-12 Widening (Amite River to Juban Road) Design Build, Denham Springs, LA:** Jim was the principal-in-charge during this design build project. GeoEngineers completed engineering analysesand provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications for highway bridges, which included PDA/CAPWAP monitoring**.**
09/09 – 07/11	**S.P. 424-04-0032: LA DOTD, US90 at LA85 Interchange Design Build, Iberia Parish, LA:** Jim was the principal-in-charge during this design-build project in support of the proposed Interchange on US90 at LA85. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent downdrag loads on the proposed adjacent bridge foundations.
04/07 – 04/09	**S.P. 700-09-0165: LA DOTD, I-49 North, Caddo Parish, LA:** A Louisiana DOTD Priority 1 Mega Project where Jim led the GeoEngineers' team in conducting bridge and roadway borings and laboratory tests before bridges are constructed and pavement is laid on the **36-mile northward extension** in Louisiana. GeoEngineers completed 166 borings for the project. At some sites, the team had to overcome the challenge of drilling exploratory borings at the same time LA DOTD cleared the area for construction, disturbing the site where samples are taken.

Firm employed by GeoEngineers					
Name	**Larry D. Sant, PE**			Years of relevant experience with this employer	20
Title	Associate Geotechnical Engineer			Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			M.S. | 2001 | Civil Engineering B.S. | 2001 | Civil Engineering		
Active registration number / state / expiration date			Professional Engineer: Civil #35625 | LA | 9/30/2022		
Year registered	2010	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Manager, Geotechnical Engineer		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
Larry Sant is a senior geotechnical engineer with over two decades of experience managing geotechnical engineering projects. His experience includes project planning and technical direction during exploration, laboratory testing, engineering design analyses, report preparation and construction monitoring. Larry has been involved in hundreds of projects including roadways ranging from highways to private access drives, airports, bridges, dams, university and K-12 schools, wastewater treatment plants, drainage facilities, utility projects, and other structures ranging from private residences to large public and private facilities. Representative bridge and roadway project experience includes the following.	
01/19 - ongoing	**S.P. H.011670: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA:** GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Larry is serving as project manager.
05/18 - ongoing	**S.P. H.003370: LA DOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA, Bossier Parish, LA:** Larry isthe project manager for GeoEngineers' OV/QA role in this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.
08/17 – 11/20	**S.P. H.009250: LA DOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA:** Larry is the project manager for GeoEngineers' OV/QA role in this highly-anticipated I-10 project that involveswidening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.
04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange Design Build, St. Mary Parish, LA:** Larry was the project manager during this design-build project in support of the proposed Interchange on US90 at LA318. He lead the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.
02/13 – 04/13	**S.P. H.010620: LA DOTD, I-49/US90 Widening over LA182 and BNSF Railroad, Lafayette, LA:** A Louisiana DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery

	where Larry was the project manager in conducting bridge and roadway borings, and laboratory tests in support of design of this design build widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.
08/12 – 07/15	**S.P. H.010151: LA DOTD, I-210 at Cove Lane Interchange, Lake Charles, LA:** Larry was the project manager during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about **8,000 driven pile foundations** including modeling driving in the wave equation analyses (WEAP), **MSE walls**, and **wick-drain/surcharge** design to reduce post-construction embankment settlement, inaccordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided **PDA/CAPWAP** evaluation of the piles during installation, and installed **liquid settlement sensors** to monitor embankment settlement.
01/10 – 12/12	**S.P. 454-02-0071: LA DOTD, I-12 Widening (Amite River to Juban Road) Design Build, Denham Springs, LA:** Larry was project manager during this design build project. GeoEngineers completed engineering analyses and provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications for highway bridges, which included PDA/CAPWAP monitoring**.**
09/09 – 07/11	**S.P. 424-04-0032: LA DOTD, US90 at LA85 Interchange Design Build, Iberia Parish, LA:** Larry was the project manager during a design-build project in support of the proposed Interchange on US90 at LA85. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent downdrag loads on the proposed adjacent bridge foundations.
Certifications Louisiana Traffic Control Technician (The American Traffic Safety Services Association) Louisiana Traffic Control Supervisor (The American Traffic Safety Services Association) Louisiana Registered Flagger (The American Traffic Safety Services Association)	

Firm employed by GeoEngineers			
Name	**David P. Sauls, PE**	Years of relevant experience with this employer	27
Title	Senior Principal Geotechnical Engineer	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization		M.S. | 1984 | Civil Engineering B.S. | 1982 | Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: Civil #23270 | LA | 03/31/2023	
Year registered	1989	Discipline	Civil
Contract role(s) / brief description of responsibilities		Quality Assurance/Quality Control	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
	David has more than 30 years of experience providing services on transportation-related projects and extensive experience working with the LA DOTD including the U.S. 165, Pollock to Tullos project and various timed projects for numerous private consultants. He has been the engineer of record in the production of many LA DOTD profile and laboratory data programs. David'srole in these projects required project supervision and quality control in the generation of the field data as well as laboratory testingassignments and techniques. David is aware of the budget and schedule requirements for LA DOTD-related activities and has metsuch conditions in the past. David currently serves as frequent guest speaker to the Louisiana State University civil engineering department and previously was an adjunct professor for the instruction of Civil Engineering 4300 Foundation Design. He is an active member with numerous technical and professional societies, both locally and statewide. He is an author and co-author of seven technical papers regarding the soil behavior and deformation characteristics of numerous geotechnical foundation studies. Relevant examples of transportation project experience include:
07/19 - ongoing	**S.P. H.004932: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA**—David is performing the geotechnical quality assurance during this design-build project that will increase traffic capacity and alleviate congestion on Loyola Drive at the I-10 interchange in the New Orleans area.
06/18 – 07/19	**Plank Road Relocation; City-Parish of East Baton Rouge, Baton Rouge, LA**—Performed geotechnical exploration and laboratory testing for the City of Baton Rouge. New runways at the Baton Rouge Metropolitan Airport necessitated the relocation of Plank Road. David provided bridge and **piling design** as well as pavement design recommendations based on geotechnical investigation results.
08/17 – 11/20	**S.P. H.009250: LA DOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA:** David was the Managing Principal for GeoEngineers' OV/QA role in this highly-anticipated I-10 project that involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.
04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange Design Build, Baton Rouge, LA:** David completed the quality assurance during this design-build project in support of the proposed Interchange on US90 at LA318. Our team completed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave

	equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.
09/12 – 04/15	**S.P. H.010151: LA DOTD, I-210 at Cove Lane Interchange, Lake Charles, LA:** David completed the quality assurance during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about **8,000 driven pile** foundations, **MSE walls**, and **wick-drain/surcharge** design to reduce post-construction embankment **settlement**, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided **PDA** evaluation of the piles during installation, and installed liquid **settlement sensors** to monitor embankment settlement.
01/10 – 12/12	**S.P. 454-02-0071: LA DOTD, I-12 Widening (Amite River to Juban Road) Design Build, Denham Springs, LA:** David was the Managing Principal for this design build project. GeoEngineers completed engineering analysesand provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications for highway bridges, which included PDA/CAPWAP monitoring**.**
09/09 – 07/11	**S.P. 424-04-0032: I-49/US90, LA85 Overpass; LADOTD and Design Build Team, Patoutville, Iberia Parish, LA:** David was the Managing Principal for the geotechnical engineering design support for the approximately $25 million, 1,900-foot interstate level overpass of two, two-lane bridges. This design includes **wick drains and surcharge** to accelerate the settlement of the 14-foot earthen approach embankment. We provided **pile design** for precast concrete piles to support the bridge bent foundation.

Firm employed by GeoEngineers			
Name	**Blake Cotton, PE**	Years of relevant experience with this employer	8
Title	Senior Principal Geotechnical Engineer	Years of relevant experience with other employer(s)	22
Degree(s) / Years / Specialization		M.S. | 1992 | Civil Engineering B.S. | 1989 | Architectural Engineering	
Active registration number / state / expiration date		Professional Engineer: Civil #28039 | LA | 03/31/2023	
Year registered	1998	Discipline	Civil
Contract role(s) / brief description of responsibilities		Quality Assurance/Quality Control	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
Blake is a principal geotechnical engineer bringing 30 years of experience in full-service geotechnical design and construction materials engineering and testing services. He was previously a principal and vice president of Louisiana operations for another large consulting firm, where he managed the Lake Charles, Baton Rouge and New Orleans offices. Blake has extensive experience with geotechnical design for major structures and bridges. In addition, his design experience includes the stability of slopes, levees, dikes, wharves and docks, and mechanically stabilized earth (MSE) walls. Blake also specializes in the use of cone penetration testing (standard and seismic) for geotechnical applications.	
05/20 – ongoing	**Large Plant Expansion; Geismar, LA:** Blake is the project principal for a large plant expansion in Geismar, Louisiana. The project includes expansions at five select units within the plant. In addition to the plant units, the expansion includes a heavy haul road and railyard expansion. Blake developed the geotechnical scope of work for the entire project including the field exploration program, laboratory testing, and engineering analyses. Many of the project structures will be constructed offsite as modules and then trucked into place using the heavy haul road. Blake provided principal review for all foundation designs including deep foundations, shallow foundations, heavy haul road pavement sections, and railroad sections. Blake will provide on-going consultation during final design and construction including site preparation, dewatering, and foundation installation.
06/14 – 07/17	**Commercial Properties Realty Trust LLC, The Water Campus; Baton Rouge, LA:** Blake served as the principal for this master planned development between downtown Baton Rouge and the LSU campus intended to foster government, academic, and private sector collaboration on coastal issues and challenges. The development will initially encompass about 30 acres immediately south of I-10 between Nicholson Drive and the Mississippi River. Soil conditions at the site are complex and heavily influenced by the historical meandering of the Mississippi River. Blake has overseen different aspects of the project, including several buildings including the Water Institute of the Gulf on new pile foundations over the footprint of the City Dock. Furthermore, the levee was raised approximately three feet with a bridge built between River Road and the new facility using spread footings on the levee and pile foundations for the elevated roadway between the levee and the building.
06/13 – 06/16	**USACE, Permanent Canal Closure Pumps (PCCP); New Orleans, LA:** The USACE has built three permanent canal closure and pump station structures to block hurricane storm surges at the Lake Pontchartrain mouths of the 17th Street, Orleans Avenue, and London Avenue drainage canals in New Orleans. The geotechnical

	engineering services included exploring subsurface soil conditions at each of the sites and providing laboratory test results in technical reports. While with other consulting firms, Blake oversaw field exploration, laboratory testing, and engineering recommendations to guide the geotechnical aspect and reporting. After joining GeoEngineers, Blake provided Independent Technical Review (ITR) for geotechnical portions of the pump stations excavation designs.
05/07 – 05/14	**U.S. Army Corps of Engineers, ID/IQ Contract for Soil Borings, Soil Testing and Geotechnical Design Support Services within the Limits of New Orleans District, ;New Orleans, LA:** While working at another consulting firm, Blake served as Program Director for this project. Through a joint venture, he oversaw geotechnical services under an ID/IQ contract related to the design of storm protection enhancements throughout the New Orleans District. Assignments under the contract are focused on 350 miles of Federal levees; hundreds of miles of supplementary levees; and a multitude of pump stations, floodwalls, floodgates, and erosion armor. The geotechnical program included drilling of several hundred borings, cone penetrometer testing (CPT), installation of piezometers, extensive laboratory testing, engineering analyses, and construction quality assurance (QA) services.
05/05 – 05/06	**Perkins Rowe Development; Baton Rouge, LA:** Blake was the Engineer-of-Record (while at another consulting firm) for the Perkins Rowe Development, which consists of a multi-faceted development community of over 300,000 sq. ft. of office space, 9-story mid-rise condominium and brownstone structures. Fugro Consultants was retained to perform geotechnical studies for the entire development, which included field exploration, laboratory testing, geotechnical analyses, and preparing multiple geotechnical design reports. Blake was heavily involved in developing the scope for geotechnical and pile load tests and consultation on pile installation.
01/05 – 01/06	**LA DOTD, I-10 Twin Span Bridge Replacement Project; Orleans and St Tammany Parishes, LA:** As Project Director (at another consulting firm), Blake provided technical input on the geotechnical engineering analyses and recommendations, advanced test pile installation and load test program to the Louisiana I-10 Twin Span due to damages from Hurricane Katrina. The project involved drilling 30 soil borings (two onshore and 28 nearshore) and the use of two jack-up barges and associated drilling equipment. Blake coordinated multiple field crews and testing to meet LA DOTD schedules.

Firm employed by GeoEngineers			
Name	**Cody Hatch, PE**	Years of experience with this firm/employer	7
Title	Geotechnical Engineer	Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization		M.S. | 2014 | Civil Engineering B.S. | 2013 | Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: Civil #42346 | LA | 09/30/2022	
Year registered	2018	Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Engineer	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
Cody Hatch is a geotechnical engineer with experience in many types of transportation projects from small road improvements to mega design-builds. He also has experience working on industrial facilities, pipelines, and coastal marsh and marine infrastructure. Cody's capabilities include site investigations and scoping; field exploration, and boring log creation; laboratory test assignments and laboratory data interpretation; pavement design; pile and deep foundation design; dynamic pile testing and interpretation; and preparing and presenting reports.	
01/19 - ongoing	**S.P. H.011670: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA:** GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Cody is part of the team as a geotechnical engineer.
05/18 - ongoing	**S.P. H.003370: LA DOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA, Bossier Parish, LA:** GeoEngineers' OV/QA role in this design-build project involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish. Cody is part of the team as a geotechnical engineer.
08/17 – 11/20	**S.P. H.009250: LA DOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA:** GeoEngineers' OV/QA role in this highly-anticipated I-10 project involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73. Cody is part of the team as a geotechnical engineer.
04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange Design Build, St. Mary Parish, LA:** Cody was part of the geotechnical engineering team during this design-build project in support of the proposed Interchange on US90 at LA318. Cody contributed to geotechnical design including drilling, pile design, settlement analysis, embankment monitoring, and embankment design.
08/12 – 07/15	**S.P. H.010151: LA DOTD, I-210 at Cove Lane Interchange, Lake Charles, LA:** Cody was part of the geotechnical engineering team during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about **8,000 driven pile foundations** including modeling driving

	in the wave equation analyses (WEAP), **MSE walls**, and **wick-drain/surcharge** design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided **PDA/CAPWAP** evaluation of the piles during installation, and installed **liquid settlement sensors** to monitor embankment settlement.
Certifications Louisiana Traffic Control Technician (The American Traffic Safety Services Association) Louisiana Traffic Control Supervisor (The American Traffic Safety Services Association) Louisiana Registered Flagger (The American Traffic Safety Services Association)	

Firm employed by GeoEngineers			
Name	**Ivy Harmon, PE**	Years of experience with this firm/employer	9
Title	Geotechnical Engineer	Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization		M.S. | 2012 | Civil Engineering B.S. | 2009 | Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: Civil #41035 | LA | 03/31/2023	
Year registered	2016	Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Engineering	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
	Ivy Harmon is a geotechnical engineer and has been involved with several site exploration projects including subsurface investigations and analyses for both coastal and land-based projects throughout Louisiana. Ivy's experience includes site investigations, field exploration using ATV drill rigs, laboratory test assignments and laboratory data interpretation, settlement calculations and slope stability analyses. She has extensive experience in dynamic testing of timber, concrete and steel piles with PDA. Ivy has completed geotechnical reports with recommendations and performed detailed pile design analyses, including axial and lateral load analysis and drivability analysis, for precast concrete, drilled shaft, steel pipe, and timber piles. In addition, she has gained valuable experience on many LA DOTD projects.
04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange; Baton Rouge, LA:** Ivy has been significantly involved in the drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, embankment design, and project management for this project. She has conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met. She also conducted modeling of driving in the wave equation analyses (WEAP) and PDA testing to keep the schedule progressing.
06/13 – 04/15	**City-Parish of East Baton Rouge, Bob Pettit Road Bridge and Claycut Road Bridge; Baton Rouge, LA:** For his off-system bridge, Ivy conducted field exploration, log review, and test assignments. In addition, she provided axial, lateral and uplift capacity for driven piles at each bridge location as well as construction recommendations for deep foundations. **City-Parish of East Baton Rouge, Picardy/Perkins Connector Project; Baton Rouge, LA:** In the initial design phase of this project, Ivy was involved in the exploration and testing including installation and reading of piezometer. She used this information for the pile and pavement designs for the project. As the project has progressed, changes in the project design included: mechanically stabilized earth walls, sheet pile wall global stability, and tiebacks. **S.P. H.010151: LA DOTD, I-49 South, Ambassador Caffery and US 90 Interchange, Route US90; Lafayette, LA:** In order to meet an aggressive schedule on this project, Ivy worked quickly and meticulously when overseeing the drilling, logging borings and documenting field work for this project.

08/12 – 04/15	**S.P. H.010151: LA DOTD, I-210 at Cove Lane Interchange, Lake Charles, LA:** Ivy was one of the key players on this fast-paced project. She took on many project management roles, including organizing and overseeing staff in the field. She was very involved during construction and the installation of more than 8,000 piles. Ivy conducted and analyzed data from more than 150 dynamic pile tests of concrete and timber pile. She observed and documented static load tests. Ivy observed and reviewed pile driving logs and documentation to keep the project information organized and on schedule. This detailed information was very useful to LA DOTD. Ivy also monitored construction of the MSE wall and provided recommendations for surcharge and settlement to the client and contractor. Throughout the project our team maintained close communication between project engineers and LA DOTD to keep the LA DOTD updated on daily project activity.

Firm employed by GeoEngineers			
Name	**King Chin, PE**	Years of experience with this firm/employer	23
Title	Principal Geotechnical Engineer	Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization		M.S. | 2001 | Geotechnical Engineering B.S. | 1996 | Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: Civil #32617 | SC | 06/29/2022 Professional Engineer: Civil #38761 | WA | 11/23/2022 Professional Engineer: Civil #80359 | CA | 12/30/2022 Professional Engineer: Civil #17742 | AR | 12/30/2022 Professional Engineer: Civil #32732 | KY | 06/29/2023	
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Senior Geotechnical Engineer, Specialty Engineering Analyses	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
	King Chin has extensive experience performing geotechnical engineering for facilities including bridges, roadways, marina/waterfront structures, high rises, hospitals and dams. King specializes in numerical modeling and earthquake engineering. Most of the projects that King worked on adopted the performance-based design procedure where the anticipated deformation of the structure and facilities are the key design criteria. These projects require design analysis that can account for the soil-structure interaction under both the static and seismic loading conditions with the use of numerical modeling techniques. King is adept in interpretation of building code regarding geotechnical engineering design guidelines outlined in AASHTO, MOTEMS, IBC, ASCE/SEI, ASCE Seismic Guidelines for Ports, and various FEMA and FHWA documents.
03/17 – 03/21	**South Carolina Dept. of Transportation (SCDOT), US 21 Bridge Replacement over Harbor River Design Build Procurement Services; Beaufort County, SC:** This design build project consists of all work necessary to remove the existing swing-span bridge and to construct a new fixed-span bridge, including the associated roadway and drainage work necessary to tie the new approaches to the existing roadway. The new bridge is approximately 6,600 feet long, consists of 21 bridge bents supported on 96-inch-diameter drilled shafts, driven 24-inch square concrete piles and HP 14x117 steel piles. The project also included two embankments up to about 18 feet high founded on very soft silt and clay and liquefiable soils up to about 65 feet thick. Key design issues include soft ground conditions for roadway embankment construction, developing geotechnical seismic design parameters for use in bridge foundation design and ground improvement design to mitigate soil consolidation and liquefaction ssues. King is the Principal-in-Charge, providing geotechnical engineering, seismic and ground improvement design services and construction oversight for this project.
04/18 – 04/19	**Washington Dept. of Transportation (WSDOT), I-90 Yakima River Bridges Cle Elum to Ellenburg, WA:** Geotechnical Engineer of Record and Principal-in-Charge for providing geotechnical design, consultation, and construction observation for the I90 Yakima River Bridges Cle Elum to Ellensburg Temporary Bridge 90/140 and 90/154 Design-Build project. Performed geotechnical design of the temporary bridges to allow open traffic while

	rehabilitating the permanent bridges. Scope of work included detailed review of the historical boring information and geologic soil conditions at the project sites, evaluated pile drivability in the hard Ellensburg Formation and the medium stiff to stiff over-consolidated clayey silt using the PDA and CAPWAP analyses. Other design elements nclude retaining wall and bridge embankment stability evaluation.
06/12 – 09/12	**Seattle Department of Transportation (SDOT), Airport Way South Grade Separation; Seattle, WA:** King was the principal in charge responsible for the ground improvement system using deep soil mixing (DSM) columns for the Airport Way South over ARGO Railroad Yard project. The roadway embankments consist of MSE fill approaches (North and South Approach) up to about 25 feet in height were designed to be supported on improved ground to mitigate the settlement induced by soil consolidation under static conditions and soil liquefaction during a design earthquake event. The subsurface soil conditions at the project site generally consisted of 20 to 40 feet of potentially liquefiable loose to medium dense sand over 20 to 40 feet of compressible clay/clayey silt. GeoEngineers completed the design of a deep soil mixing (DSM) column with load transferring structural slab system to reduce the post-construction static settlement and the liquefaction induced settlement under the design earthquake event to less than an inch.
06/13 – 01/15	**U.S. Army Corps of Engineers, Permanent Canal Closures and Pump Stations Project; New Orleans, LA:** King was the principal and project manager responsible for the numerical modeling of the cofferdam constructed at the 17th Street Canal, London Avenue Canal and Orleans Avenue Canal sites for the Permanent Canal Closure and Pump (PCCP) project in New Orleans, Louisiana. The PCCP project includes constructing a pump station at each project site that will move rainwater out of the canal and into Lake Pontchartrain during a tropical weather event. The construction of the pump station requires an excavation up to 54 feet deep completed under water and the cofferdam is designed to resist the very soft clay called Marsh Deposit and up to 47 feet of differential water pressure when the excavation is fully dewatered during the construction of the pump station. Extensive three-dimensional numerical modeling using the PLAXIS 3D to evaluate the performance of the cofferdams under fully excavated and dewatered conditions and to evaluate the impacts of the cofferdams' deformations to the adjacent existing structures and future buildings that will be constructed adjacent to the cofferdams. Our analyses ncorporated the cofferdam deformation effects to the Marsh Deposit to make sure that bearing failure does not occur during construction. Our analyses were peer reviewed by two third-party reviewers, one retained by the US Army Corps of Engineers, and the other retained by the design-build project team. Contractors successfully constructed the cofferdams and the actual performance was in line with our numerical modeling results and predictions.

Firm employed by GeoEngineers			
Name	**Shaun Stauffer, PE, LEED AP**	Years of experience with this firm/employer	29
Title	Principal Geotechnical Engineer	Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization	M.S. | 1992 | Civil Engineering B.S. | 1991 | Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: Civil #83511 | OR | 06/29/2022 Professional Engineer: Civil #181828 | UT | 03/30/2023		
Year registered	1996	Discipline	Civil
Contract role(s) / brief description of responsibilities	Principal Geotechnical Engineer, Specialty Engineering Analyses		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
Shaun Stauffer has been a consulting geotechnical engineer and field representative since 1992. His expertise includes lateral earth support, slope stability, foundation engineering, and seismic analysis. Shaun has managed numerous geotechnical engineering projects, which have involved designing soil nail walls and soldier pile walls for supporting cuts and designing MSE (mechanically stabilized earth) walls for embankment fills.	
07/13 – 03/18	**LA DOTD, I-55 CNRR and I-12 US 51 Embankment Repairs; Hammond, Tangipahoa Parish, LA:** Shaun was a specialty engineer on this project to repair six slope failures underneath the CN Railroad overpass and the I-55 embankment side slopes north and south of the railroad overpass, as well as at I-12 near the US 51 overpass in Hammond, Louisiana. He assisted in the testing and design of the soil nail wall to support the overpass and provided review during construction observation.
03/12 – 12/16	**LADOTD, Lake Charles Soil Nail Walls; Lake Charles, LA:** Shaun was a specialty engineer for this project to design a 20-foot-high, 350-foot-long permanent soil nail retaining wall and a 20-foot-high, 500-foot-long permanent soil nail retaining wall to support an excavation to construct new Frontage Road turnaround in Lake Charles, Louisiana. He assisted in testing and designing the soil nail walls.
11/10 – 02/16	**Seattle Department of Transportation, Yesler Way South Bridge; Seattle, WA:** Shaun was the Principal-in-Charge for the geotechnical engineering team that provided design and construction observation services for the replacement of the Yesler Way Bridge in Seattle, Washington. The existing three span bridge over 4th Avenue was constructed in the early 1900s. The replacement bridge is a single span structure and utilizes the existing bridge abutments because the bridge is designated as an historical structure. Significant retrofitting and load capacity modifications were required in order to re-use the existing abutments. Additionally, the load capacity of the adjacent BNSF railroad tunnel had to be evaluated because of the proximity of the tunnel to the west bridge abutment. We completed several explorations behind the bridge abutments to evaluate soil and groundwater conditions for the design and evaluations. We evaluated the capacity of the existing abutments and provided recommendations for increasing the load capacity for existing seismic design codes. Recommendations GeoEngineers provided included micropiles and tieback anchors to increase the lateral and overturning resistance

	of the east abutment. Drilled shaft recommendations were provided to increase the vertical and lateral resistance for the west abutment because ground anchors could not be installed near the BNSF railroad tunnel.
12/14 – 12/16	**WSDOT, SR 167/8th Street E. to S. 277th Street Southbound Hot Lanes Project; Auburn, WA.:** Shaun was the Principal-in-Charge for the geotechnical design, consultation, and construction observation for the SR 167 Southbound Hot Lane design build project for WSDOT. The project involved widening one lane over an 8-mile stretch of SR 167. Highly variable soil conditions are present at the site. Our services included completing more than 125 explorations to characterize the soil and groundwater conditions for the project design. Geotechnical recommendations included drilled shaft foundations for a new two span bridge; global stability and foundation evaluations for approximately 1.25 miles of noise wall; global stability, seepage, and settlement evaluations for three stormwater detention ponds; global stability and settlement evaluations for new roadway embankments; infiltration evaluations for more than 3 miles of CAVFS (compost amended vegetated filter strips); drilled shaft foundation recommendations for luminaires and signal, sign, and CCTV poles; and shoring, dewatering, foundation support, and wall design for a fish passage structure.

Firm employed by GeoEngineers					
Name	**Denzel Flores, EI**			Years of experience with this firm/employer	4
Title	Staff Civil Engineer			Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			B.S. | 2018 | Civil Engineering		
Active registration number / state / expiration date			Professional Engineer: Civil #33825 | LA | 03/31/2023		
Year registered	2018	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Geotechnical Engineer		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
	Denzel Flores is a staff engineer who is actively involved in many of GeoEngineers' geotechnical explorations and evaluations. Just a year into his career, Denzel has been on the forefront of more than a dozen GeoEngineers projects, performing field investigations using land-based, water-based, and amphibious drilling equipment. His capabilities include the following: • Field investigations using land-based, water-based and amphibious drilling equipment to log soil borings and push CPTs • Laboratory test assignments and laboratory data interpretation • Slope stability analyses using GeoStudio's Slope/W • Settlement analyses using Settle3D, traditional Boussinesq methods and PSDDF • Deep foundation design using APILE, Driven, and LPILE
03/20 - ongoing	**LADOTD, LA 23 Belle Chasse Bridge Project, Belle Chasse, LA:** Denzel is supporting the geotechnical nvestigation for this project to demolish the existing tunnel and bridge and replace them with a single structure.
04/19 – 08/19	**I-20/I-220 Interchange Improvements & Barksdale AFB Access; Bossier Parish, LA:** Denzel provided preliminary geotechnical investigation support through our current retainer contract for this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.
09/19 - ongoing	**LA DOTD, Loyola Drive Project; Kenner, LA:** Denzel supported the field investigation for this high-profile project n Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity to the Louis Armstrong New Orleans International Airport terminal.
09/18 – 10/18	**LA DOTD, I-10 Texas State Line to Coon Gully Project; Calcasieu Parish, LA:** Denzel supported the field nvestigation as part of the subsurface exploration program GeoEngineers conducted for this project through our current retainer contract to replace five bridges along I-10 between the Texas state line and Coon Gully near Vinton, Louisiana.
06/18 – 07/19	**City-Parish of East Baton Rouge, Plank Road Relocation; Baton Rouge, LA:** Denzel supported the geotechnical exploration and laboratory testing for the relocation of Plank Road.

Firm employed by GeoEngineers			
Name	**Gregory K. Adams**	Years of experience with this firm/employer	48
Title	Drilling Manager	Years of experience with other firm(s)/employer(s)	1
Degree(s) / Years / Specialization		58 Semester Hours in Industrial Technology Curriculum Continuing Education for Water Well Driller's License	
Active registration number / state / expiration date		Licensed Representative for Water Well License No. 724 | LA | 06/30/2022	
Year registered	1980	Discipline	Civil
Contract role(s) / brief description of responsibilities		Geotechnical Drilling Manager	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.

Greg Adams has participated in or overseen nearly all of the field exploration investigations conducted by our firm in the last four decades. Greg often travels with our engineers on the first site visit meeting with clients to determine access and exploration equipment requirements. Typically, while in the field, he uses our GPS with a tablet running mapping software, such as GIS to locate the boring position. This expedited information is appreciated by utility location responders, when the statutory required "One-Call" is called in.

Based on the pre-mobilization site visit, Greg will establish site access logistics and equipment requirements. His experience includes utilizing existing equipment and procuring additional support equipment such as jack-up barges, flexi-float systems, marsh buggies, airboats, and all-terrain equipment. As an experienced drilling manager, he is also proficient with the administrative and budgetary commitments related to geotechnical explorations.

His exploration experience covers much of the U.S. from Louisiana to Florida to Massachusetts to California, as well as Mexico; and stratigraphy explored ranges from soft soils to rock. He is experienced in all types of sampling procedures including: thin wall Shelby, SPT, NX core barrels, Pitcher Barrel, Osterberg, and 5" fixed pistol sampling. He is experienced in drilling muds and weighted materials and very familiar with statutory grouting procedures and requirements across the U.S.

Greg's experience and qualifications include:

Site-Specific Experience. Greg's involved in virtually all field exploration activities by our firm in the last four decades has made him keenly aware of the safety/access/operational requirements for transportation infrastructure projects. Greg has personally drilled and supervised the exploration activities at numerous DOTD projects, and projects in all parishes. This work was performed both on land and on water.

Site Access Technology. Greg's personal on ground and over water experience at various projects provides a unique understanding of exploration access vehicle requirements. Depending on the terrain, forestation, weather, and river conditions, Greg has the experience and knowledge to select the appropriate equipment to get the job done successfully.

Safety. As the Drilling Manager, he is directly responsible for the operational activities of our drilling department. As a safe workplace s both a corporate belief as well as a personal responsibility, he takes responsibility for being at the front line of daily safety orientation and equipment function instruction.

Site Access. For both our numerous public and private clients, Greg is involved with property owners and site access for our drilling operations. Because of our extensive experience, he is well versed in coordinating site access through numerous uninterested/potentially hostile property owners in accessing rights-of-ways. He is well versed in making personal contact with these property owners and evaluating the most effective, economical, least disruptive, and environmentally compatible site access technique, be that rubber-tired, track-mounted, pontoon floated, or boat driven access. His awareness of vehicle operational requirements is directly suited to work in heavy terrain such as the loess bluffs and heavy tree-cover or soft ground terrain.

Safety Accreditations

- GBRIMA (Greater Baton Rouge Industry Managers Association)
- CDL (Commercial Driver's License)
- MSHA (Mine Safety Health Association Certified Training)
- Union Pacific and Burlington Northern Santa Fe Railroad Contractor Orientation Safety Programs
- CPR/First Aid Training
- Stop for Supervisor Safety Training

Firm employed by GeoEngineers					
Name	**Kyle Kilfian**			Years of experience with this firm/employer	7
Title	Drilling Services Manager			Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			B.S. | 2007 | Mechanical Engineering		
Active registration number / state / expiration date			Licensed Representative for Water Well License No. 724 | LA | 06/30/2021		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Geotechnical Drilling Manager		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designedintersection", etc.				

Kyle Kilfian has been with GeoEngineers since 2014 and has exceled on a variety of projects involving geotechnical soil borings, environmental soil borings, construction monitoring, and cone penetration test (CPT) soundings. All field work required coordination with clients, contractors, project engineers, land owners and pipeline representatives. Kyle provides detailed daily field reports including site photographs generated to document field activities. He also oversees the fabrication and modifications of equipment depending upon project requirements and client specifications.

Geotechnical Investigations

Kyle performed CPT soundings and soil borings for various transportation projects including the following:

- LA DOTD, Caddo Lake Bridge, Mooringsport, LA
- LA DOTD, I-210 Interchange at Cove Lane, Lake Charles, LA
- LA DOTD, LA 485 Bridges, Natchitoches Parish, LA
- LA DOTD, LA 835 Boeuf River Bridge, Near Concord, Richland Parish, LA
- LA DOTD, Tangipahoa River Bridge Replacement, Tangipahoa Parish, LA
- LA DOTD, Loyola Dr. I-10 Interchange to New Airport Terminal, Jefferson Parish, LA

Construction Monitoring

nspected the construction of mechanically stabilized earth (MSE) walls and the installation of concrete and timber piles. Assisted with pile driving analysis (PDA). Monitored augercast pile and Geopier installation. Performed nuclear density testing and monitored fill placement. Read and interpreted detailed plans.

Firm employed by GeoEngineers			
Name	**Jamie McLeod**	Years of experience with this firm/employer	11
Title	Driller	Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization		High school graduate	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Driller	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.

Jamie has been drilling with GeoEngineers for nine years and very experienced with safely handling our drilling equipment, collecting quality samples, and working well with his crew and loggers. Below are some of the skills Jamie has acquired through his work on almost every project he has performed.

Site access. Jamie has encountered many sites that are difficult to access because of barriers such as water, woods and other factors. Jamie understands that access to the site is important for entrance and exit. In case of an emergency, Jamie ensures there is a clear path to get back to vehicles and makes sure we have the proper equipment to transport people.

Traffic safety. Much of our work with the LA DOTD involves site locations that are located near active traffic. Jamie has experience coordinating with local law enforcement and placing traffic warning signs and cones before starting work. This helps enforce the safety of the public and his crew members. In addition, Jamie is a certified Traffic Control Technician.

Collecting quality samples. Jamie understands the importance of obtaining quality samples for project design and implementation. When he arrives at a site, he is always prepared with the right equipment to handle different soil conditions, varying from clay to sand and silt conditions.

Safety. Jamie is familiar with the many different safety concerns a site can present. He is aware of the common biohazards found in the Gulf South Region. Being a Louisiana native Jamie knows that dangers can exist in the environment, and he takes the necessary steps to scope an area before preforming work. He is also familiar with just how quickly the weather can change in Louisiana. He stays updated on forecast and knows when to leave a job before the situation becomes dangerous. In the field people look up to Jamie for his expertise in identifying safety concerns and knowing when and how to proceed. Jamie has also been required to work safely in petrochemical plants

Environmental. Jamie is knowledgeable about state laws and regulations pertaining to grouting boreholes upon completion and understands its importance. He knows what materials and grout mixture to use to refill boreholes properly and to make certain he is not leaving a borehole path to allow material migration and cause environmental concerns. He also knows the importance of leaving a

site in the same condition as when he arrived or as close as possible. He ensures that sites are free of trash, debris, oils and other harmful materials.

Operating equipment. Jamie can operate both of our Failing 1500 truck drill rigs, our Failing 1500 skid drill rig, and our Ardco K 1000 ATV Rig. He has used these rigs in geotechnical borings across the South. Jamie also holds a class B commercial driver license. In addition, Jamie has experience operating equipment in the Mississippi and other rivers.

Maintaining equipment. Aside from knowing how to operate equipment, Jamie also knows that maintenance of the equipment can affect its performance. After every job, he makes sure the equipment is properly taken care of and receives regular maintenance checks.

Certifications

- GBRIMA (Greater Baton Rouge Industry Managers Association)
- CDL (Commercial License)
- CPR/First Aid Training

Training

- Traffic Control Technician (The American Traffic Safety Services Association)

Firm employed by GeoEngineers			
Name	**Karen Allen**	Years of experience with this firm/employer	7
Title	CET, Laboratory Quality Assurance Manager	Years of experience with other firm(s)/employer(s)	40
Degree(s) / Years / Specialization		High school graduate LSU School of Computer Science/1990	
Active registration number / state / expiration date		NICET (National Institute for Certification in Engineering Technologies) | Geotechnical Laboratory | Level II NICET (National Institute for Certification in Engineering Technologies) | Generalist | Level II	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Geotechnical Laboratory Quality Assurance Manager	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.

Karen Allen joined GeoEngineers as a quality assurance manager with more than 40 years of experience working for geotechnical and environmental firms. She has worked on many projects that included construction material onsite testing, logging behind the drill rig and sampling of water wells. Additionally, she has experience performing daily lab testing for many geotechnical and environmental projects. She has been instrumental in helping achieve and maintain AASHTO, U.S. Army Corps of Engineers, and Louisiana Department of Environmental Quality (LELAP), certifications/validations for GeoEngineers' laboratories. Her responsibilities also include project management of laboratory testing only projects, invoicing, and calibrations of laboratory testing equipment. Karen is responsible for yearly training records on all technicians and written in-house tests for technician training that ensure our practices are top notch. She also trains technicians on proper use, maintenance and calibration of the laboratory equipment.

- pH of Soils – ASTM D4972
- Quality System/Inspection of Lab – D3740/R18
- Unconfined Compression – ASTM D2166
- Organic Content – ASTM D2974
- Unconsolidated-Undrained Triaxial Compression – ASTM D2850
- Hydrometer Analysis – ASTM D422
- Atterberg Limits – ASTM D4318
- Swell Test – ASTM D4546
- Sieve Analysis – ASTM C136/D6913
- Permeability – ASTM D5084
- Direct Shear of soil AS
- Moisture Density Relationship (Proctor) – ASTM D698/1557
- Specific Gravity of Soils – ASTM D854
- One Dimensional Consolidation Tests – ASTM D2435
- Consolidated-Undrained Triaxial Compression w/pore pressure measurements – ASTM D4767
- Self-Weight Consolidation Test
- Laboratory Miniature Vane Shear Test – ASTM D4648
- Laboratory Resistivity Values of Soils– LADOTD TR429/ASTM G57
- CBR of Laboratory – Compacted Soils – ASTM D1883
- Sieve of soils Minus #200 – D1140

Firm employed by GeoEngineers				
Name	**Wendy Allen**		Years of experience with this firm/employer	4
Title	Laboratory Manager		Years of experience with other firm(s)/employer(s)	27
Degree(s) / Years / Specialization			High School Graduate | 1993	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Geotechnical Laboratory Manager	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc.
02/20 - ongoing	**LA DOTD - P3 Belle Chasse Bridge and Tunnel Replacement; Plaquemines Parish, LA:** GeoEngineers is providing geotechnical services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. Wendy is involved with the laboratory testing and all reporting.
8/19 - ongoing	**LA DOTD - I-10 Widening (Louise Street to I-110); Baton Rouge, LA:** GeoEngineers is providing geotechnical explorations and laboratory testing for the widening of westbound Interstate 10 (I-10) from the Louise Street exit to just south of the I-10/I-110 split in Baton Rouge, Louisiana. Wendy is overseeing all laboratory testing and reporting on this project.
01/19 - ongoing	**LA DOTD - Loyola Dr/I-10 Interchange to New Airport Terminal (LANOIA) Design Build; Jefferson Parish, LA:** GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Wendy is conducting the laboratory and testing for this project.
04/19 – 02/20	**LA DOTD, Caddo Lake Bridge GT Evaluation; Caddo Parish, LA:** GeoEngineers provided geotechnical explorations and laboratory testing for approximately 2,500 lineal feet of new bridge with 23 bents including the two abutments located on LA 1 in Caddo Parish, Louisiana. Wendy oversaw all laboratory testing and reporting for this project.
2011 - 2014	**Gulf Intracoastal WaterWay (GIWW – World's Largest Pump Station), Belle Chasse, LA:** At a previous firm, Wendy supported the laboratory testing and reporting for the geotechnical services for the Gulf Intracoastal WaterWay Pump Station in Belle Chasse, Louisiana. Wendy assisted with testing and conducted all technician reports as well as all USACE forms.
2011-2014	**Entergy NineMile Point, Westwego, LA:** At a previous firm, Wendy supported the laboratory testing and reporting for the geotechnical services for the NineMile Point in Westwego, Louisiana. Wendy assisted with testing and conducted all technician reports as well as all USACE forms.

Firm employed by: ADAPTIVE			
Name	**Venu Tammineni, PE**	Years of relevant experience with this employer	3
Title	Principal/President	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		Master of Civil Engineering/2005/Geotechnical Engineering	
Active registration number / state / expiration date		PE 36864/LA/9-30-2022	
Year registered	2012	Discipline	Civil Engineering/Geotechnical
Contract role(s) / brief description of responsibilities		Principal / Mr. Tammineni will direct and provide technical guidance to geotechnical investigation, laboratory work, and geotechnical engineering design.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/20 - 12/21	**City of East Baton Rouge and Parish of East Baton Rouge, City-Parish Project NO. 20-CP-HC-0004; Baton Rouge, LA:** Mr. Tammineni provided pavement design recommendations for the proposed pavement expansion for the Highland Road at Siegen Lane/Burbank Drive intersection. As a consultant to Fourrier & de Abreu Engineers, LLC (FDAE), Mr. Tammineni coordinated all aspects of the project including, but not limited preparation of the proposal for the project, discussion with the design team, obtaining DOTD permit, executing field exploration program, assigning laboratory tests, performing pavement analyses, and preparing the geotechnical report that has been reviewed and accepted by the design team.
03/22 - 04/22	**City of Patterson, Patterson 2022 Street Improvements; St. Mary Parish, LA:** Mr. Tammineni provided pavement design recommendations for the proposed pavement improvements for various streets throughout the City of Patterson. Mr. Tammineni coordinated all aspects of the project including, but not limited preparation of the proposal for the project, discussion with the design team, assigning laboratory tests, laboratory testing QA/QC, performing pavement analyses, and preparing the geotechnical report.
01/18 - 02/18	**City of Youngsville, Chemin Metairie Parkway and Détente Road Roundabout; Youngsville, LA:** The City of Youngsville planned to construct a roundabout at the existing intersection of Chemin-Metairie Parkway and Détente Road. The roundabout will have a larger footprint than the intersection and will require installation of additional fill to match grades. Planned and executed field exploration and provided recommendations for rigid and flexible pavements for the project. (Experience with previous employer)
06/16 - 09/16	**Causeway Boulevard - Earhart Expressway Interchange; New Orleans, LA:** Coordinated the drilling activities for limited soil borings for the project. Three-inch diameter soil samples were obtained using a thin-walled tube and piston sampler. Soil stratigraphy was highly variable and layered and required close monitoring of the drilling crews to obtain quality soil samples. (Experience with previous employer)
11/14 - 02/15	**St. Landry Parish Smooth Ride Home – Phases II-A and II-B; St. Landry Parish, LA:** Project included improving the condition of several roadways throughout the parish. Coordinated the field investigation and provided recommendations for the roadway improvements including soil-lime and soil-cement stabilization.

	(Experience with previous employer)
04/11 - 06/11	**Phase II Apron Pavement Improvements, Lafayette Regional Airport, Lafayette, LA:** Project involved replacing the existing asphalt pavement apron with a new asphalt or concrete pavement apron to accommodate airplanes. Recommendations for CBR and modulus of subgrade reaction for design were provided. (Experience with previous employer)

Firm employed by: ADAPTIVE					
Name	**Michael McKinney**			Years of relevant experience with this employer	2
Title	Operations Manager/Driller			Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization			N/A		
Active registration number / state / expiration date			Water Well Contractor/LA/6-30-2022		
Year registered	2012	Discipline	Geotechnical Field Services		
Contract role(s) / brief description of responsibilities			Field Services Manager/Mr. McKinney is a Water Well Contractor who will drill, and/or coordinate all field exploration. He also serves as a safety manager and Traffic Control Supervisor.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/22 - 04/22	**City of Patterson, Patterson 2022 Street Improvements; St. Mary Parish, LA:** Mr. McKinney coordinated drilling and all field exploration services for the project. He oversaw the completion of 8 roadway soil borings and assisted with lab testing for the project.
01/20 - 12/21	**City of East Baton Rouge and Parish of East Baton Rouge, City-Parish Project NO. 20-CP-HC-0004; Baton Rouge, LA:** Mr. McKinney coordinated and oversaw the field exploration for the project. Temporary lane closures had to be made for the completion of soil borings in the roadway. All field exploration was completed per MoveBR standards.
06/16 - 09/16	**Lake Charles, LA Pavement Improvement; Calcasieu Parish, Louisiana:** Served as the senior driller for multiple parish highways and roads. He coordinated drill rig and other equipment mobilization, drilled, and sampled various highways and pavement types throughout Calcasieu Parish. Mr. McKinney oversaw the coring and measurement of asphalt, concrete, and base material. After knowing the pavement and base course dimensions, he completed drilling and soil sampling those locations, patching the road back after completion as per LADOTD requirements. All field explorations were completed in accordance with LA DOTD standards. (Experience with previous employer)
11/16 - 12/16	**I-49 future Corridor Overpass Expansion Project DOTD; New Iberia Parish, Louisiana:** Worked as senior driller for the geotechnical investigation for the I-49 expansion and overpass. Mr. McKinney completed geotechnical sampling for deep foundations and overpass construction. All field explorations were completed in accordance with LA DOTD standards. (Experience with previous employer)
04/14 - 05/14	**HWY 10 Bridge for DOTD, St. Francisville, Louisiana:** Senior Driller for a Bridge replacement site. Mr. McKinney assisted with the mobilization, drilling, and soil sampling for four 100' soil borings. He oversaw the coring and measurement of asphalt, concrete, and base material. After pavement and base course dimensions were selected, he completed drilling and soil sampling those locations, patching the road back after completion

	as per LADOTD requirements. All field explorations were completed in accordance with LA DOTD standards. (Experience with previous employer)
08/12 - 11/12	**Gonzales, LA Pavement Improvement DOTD, Ascension Parish, Louisiana:** Senior Driller for multiple parish highways and roads. Mr. McKinney assisted with the mobilization, drilling, and soil sampling for various highways and pavement types throughout Ascension Parish. He oversaw the coring and measurement of asphalt, concrete, and base material. After the pavement and base course dimensions were selected, he completed drilling and soil sampling those locations, patching the road back after completion as per LADOTD requirements. All field explorations were completed in accordance with LA DOTD standards. (Experience with previous employer)
08/12 - 04/11	**I-12 Bridge Expansion Project DOTD, Denham Springs, Louisiana:** Served as a senior driller for the geotechnical investigation for the I-12 expansion and lane widening for the portion that crosses the Amite River. Mr. McKinney assisted with multiple mobilizations, drilling, and soil sampling for project field investigations, including CPT soundings and drilling for the end bents and for a group of deep foundation locations. All field explorations were completed in accordance with LA DOTD standards. (Experience with previous employer)

Firm employed by: ADAPTIVE			
Name	**Justin Ator, CET**	Years of relevant experience with this employer	1
Title	Laboratory Manager/Senior Technician	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		N/A	
Active registration number / state / expiration date		CET 139594/LA/2-1-2024	
Year registered	2012	Discipline	Geotechnical Laboratory Testing
Contract role(s) / brief description of responsibilities		Laboratory Manager/Mr. Ator will oversee all laboratory testing and will perform specialized laboratory testing. He will provide data entry for lab testing, produce boring logs, and will QA/QC all test results.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/22 - 04/22	**City of Patterson, Patterson 2022 Street Improvements; St. Mary Parish, LA:** Mr. Ator provided geotechnical laboratory testing and oversight for the project. He generated boring logs and performed QA/QC on all testing performed.
01/22 - 03/22	**1,4Group, Inc Proposed Warehouse and Plant Facility; Ascension Parish, LA:** Mr. Ator performed geotechnical laboratory testing and QA/QC for 8 soil borings and 15 CPTs. The project involved rigid and flexible pavement design for a proposed warehouse facility.
8/20 - 10/20	**Flat Lake Sedimentation Study, St. Mary Parish, LA:** Mr. Ator performed moisture content, density, Atterberg limits, fines content, hydrometer analysis, organics, column-settling and low-stress consolidation test.
08/19	**Premier Geotech and Testing, LLC., Arbor Walk Subdivision; Walker, LA:** Mr. Ator managed subconsultant laboratory testing of 72 soil samples for USCS classification, moisture content, density, Atterberg limits, and unconfined compressive strength.
05/19 - 06/19	**Weeks Marine, Inc., Jack and Bore for Dredge Pipeline and Booster Pump Stations; Cameron Parish, LA:** Mr. Ator managed and performed laboratory testing for undisturbed samples including USCS classification, moisture content, density, Atterberg limits, fines content, hydrometer analysis, and unconsolidated-undrained triaxial shear strength.
6/18 - 8/18	**Bayou Long Pump Station, Atchafalaya Basin, LA:** Mr. Ator performed field investigation, transported soil samples to the laboratory, completed extrusions and performed moisture content, density, Atterberg limits, fines content, hydrometer analysis, and unconsolidated-undrained triaxial shear strength on samples assigned by the project engineer.

Firm employed by: ADAPTIVE					
Name	**Ryan Williamson, EI**			Years of relevant experience with this employer	1.5
Title	Engineer Intern/Field Engineer			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			B.S. - Civil Engineering/2017/Geotechnical Engineering		
Active registration number / state / expiration date			EI 33623/LA/9-30-2022 Traffic Control Supervisor/LA/11-14-2023		
Year registered	2018	Discipline	Civil Engineering/Geotechnical		
Contract role(s) / brief description of responsibilities			Engineer Intern / Mr. Williamson will coordinate, oversee, and log soil samples during field explorations. He will assist with boring logs, CPT logs, laboratory data QA/QC, drafting figures, analyses, and reporting.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/22 - 04/22	**City of Patterson, Patterson 2022 Street Improvements; St. Mary Parish, LA:** Mr. Williamson assisted with pavement design recommendations for the proposed pavement improvements for various streets throughout the City of Patterson. Mr. Williamson acted as the field engineer for the project, collecting and logging high quality soil samples while overseeing field exploration. He provided laboratory testing QA/QC, generated boring logs, report figures, ran pavement analyses, and prepared the geotechnical report.
01/22-03/22	**1,4Group, Inc Proposed Warehouse and Plant Facility; Ascension Parish, LA:** This project involved supporting pavement infrastructure for heavily loaded vehicles to access a proposed warehouse facility. Mr. Williamson assisted with the CPT portion of the field exploration, provided QA/QC for laboratory testing and boring logs, generated project figures, assisted with rigid and flexible pavement analyses, and drafted the geotechnical report.
04/19 - 06/19	**Jack and Bore for Dredge Material Pipeline; Cameron Parish, LA:** The project involved a proposed Jack and Bore location for a dredge material pipeline road crossing in Cameron, LA. Mr. Williamson assisted with laboratory testing and boring log QA/QC, geotechnical analyses, and report text and figures. (Experience with previous employer)
01/18 - 02/18	**City of Youngsville, Chemin Metairie Parkway and Détente Road Roundabout; Youngsville, LA:** The City of Youngsville planned to construct a roundabout at the existing intersection of Chemin-Metairie Parkway and Détente Road. The roundabout will have a larger footprint than the intersection and will require installation of additional fill to match grades. Mr. Williamson collected and logged soil samples while overseeing drilling. He assisted with analyses to provide recommendations for rigid and flexible pavements for the project. (Experience with previous employer)

Firm employed by: ADAPTIVE					
Name	**Gregory Mattson, II, P.E.**			Years of relevant experience with this employer	1.5
Title	Project Lead Engineer			Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			M.S. Civil and Environmental Engineering/2014/Geotechnical Engineering		
Active registration number / state / expiration date			PE 42387/LA/9-30-2022 Traffic Control Technician/LA/11-14-2023		
Year registered	2018	Discipline	Civil Engineering/Geotechnical		
Contract role(s) / brief description of responsibilities			Project Engineer / Mr. Mattson will provide field assistance as needed, provide laboratory data QA/QC, and conduct the engineering analyses and reporting.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/22 - 04/22	**City of Patterson, Patterson 2022 Street Improvements; St. Mary Parish, LA:** Mr. Mattson assisted with pavement design recommendations for and provided laboratory testing QA/QC. Additionally, he provided technical review for the geotechnical report.
01/22-03/22	**1,4Group, Inc Proposed Warehouse and Plant Facility; Ascension Parish, LA:** This project involved supporting pavement infrastructure for heavily loaded vehicles to access a proposed warehouse facility. Mr. Mattson was the on-site field engineer for the boring conducted as part of the field exploration. Additionally, provided QA/QC for laboratory testing and boring logs, generated project figures, assisted with rigid and flexible pavement analyses, and drafted the geotechnical report.
01/20 - 02/20	**McKim and Creed, PWS Trinity Derby Brine Pipeline; Frio County, TX:** McKim and Creed is moving forward designing a brine transportation pipeline that includes trenchless crossings of roads, rivers, and railroad tracks. This phase of the project includes two HDD crossings, one at the Frio River and the other at Interstate 35 and a railroad. The field exploration program included the geotechnical drilling and sampling of two 50-foot soil borings. Mr. Mattson coordinated with the client's project manager and developed the proposal; provided laboratory data QA/QC; assisted with HDD recommendations; and assembled the GDR. (Experience with previous employer)
04/19 - 06/19	**Jack and Bore for Dredge Material Pipeline; Cameron Parish, LA:** The project involved a proposed Jack and Bore location for a dredge material pipeline road crossing in Cameron, LA. Mr. Mattson provided laboratory QA/QC, conducted geotechnical analyses, and drafted the report. (Experience with previous employer)

Firm employed by: LANDSOURCE INCORPORATED					
Name	**David L. Patterson**			Years of relevant experience with this employer	26
Title	President			Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			Louisiana State University, B.S., 4 yr., Construction Technology		
Active registration number / state / expiration date			License No.: 4784 / LA / 3/31/2023		
Year registered	1996	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			Principal-in-Charge/Project Manager/Land Surveyor - Mr. Patterson has & will serve as Principal-in-Charge, Project Manager & Professional Land Surveyor on the projects listed below and the advertised project. He will oversee all project activities.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2014	**S.P. No. H.010626.5, Off-System Highway Bridge Program, Jefferson Parish**. Responsibilities included topographic survey to replace one bridge. (2014)
2013	**S.P. No. H.010597.5, Off-System Highway Bridge Program, West Feliciana Parish**. Responsibilities included topographic survey to replace two bridges. (2013)
2013	**S.P. No. H.010061.5 & H.010062.5, Off-System Highway Bridge Program, Tangipahoa Parish**. Responsibilities included topographic survey to replace four bridges. (2013)
2013	**S.P. No. 700-54-0105, Off-System Highway Bridge Program, Morehouse Parish**. Responsibilities included topographic survey to replace two bridges. (2013)
2013	**S.P. No. H.010034.5 & H.010035.5, Off-System Highway Bridge Program, St. Landry Parish**. Responsibilities included topographic survey to replace four bridges. (2013)
2012	**S.P. No. H.009981.5, Off-System Highway Bridge Program, West Carroll Parish**. Responsibilities included topographic survey to replace two bridges. (2012)
2012	**S.P. No. H.009945.5, Off-System Highway Bridge Program, Bossier Parish**. Responsibilities included topographic survey to replace one bridge. (2012)

Firm employed by: LANDSOURCE INCORPORATED					
Name	**Scott L. Patterson**			Years of relevant experience with this employer	10
Title	Project Manager / Land Surveyor			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			Louisiana State University, B.S., 4 yr., Construction Technology		
Active registration number / state / expiration date			License No.: 5246 / LA / 9/30/2023		
Year registered	2022	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			Project Manager		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2014	**S.P. No. H.010626.5, Off-System Highway Bridge Program, Jefferson Parish**. Responsibilities included topographic survey to replace one bridge. (2014)
2013	**S.P. No. H.010597.5, Off-System Highway Bridge Program, West Feliciana Parish**. Responsibilities included topographic survey to replace two bridges. (2013)
2013	**S.P. No. H.010061.5 & H.010062.5, Off-System Highway Bridge Program, Tangipahoa Parish**. Responsibilities included topographic survey to replace four bridges. (2013)
2013	**S.P. No. 700-54-0105, Off-System Highway Bridge Program, Morehouse Parish**. Responsibilities included topographic survey to replace two bridges. (2013)
2013	**S.P. No. H.010034.5 & H.010035.5, Off-System Highway Bridge Program, St. Landry Parish**. Responsibilities included topographic survey to replace four bridges. (2013)
2012	**S.P. No. H.009981.5, Off-System Highway Bridge Program, West Carroll Parish**. Responsibilities included topographic survey to replace two bridges. (2012)
2012	**S.P. No. H.009945.5, Off-System Highway Bridge Program, Bossier Parish**. Responsibilities included topographic survey to replace one bridge. (2012)

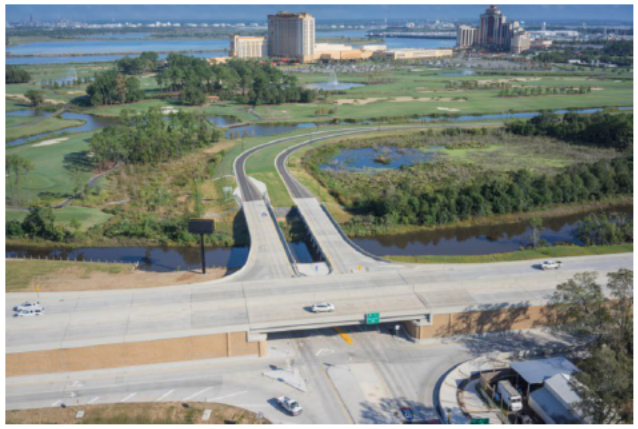
Firm employed by: LANDSOURCE INCORPORATED			
Name	**Michael C. Pitre**	Years of relevant experience with this employer	26
Title	Vice President	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		T.H. Harris Technical College, Associates Degree, 2 yr., Civil Engineering Technology	
Active registration number / state / expiration date		License No.: CST Level III Certified / LA License #1003-1863	
Year registered	N/A	Discipline	Survey Coordinator
Contract role(s) / brief description of responsibilities		Survey Coordinator - Mr. Pitre has & will serve as Survey Coordinator on the projects listed below and the advertised project. He will coordinate survey crews and CADD personnel.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
2014	**S.P. No. H.010626.5, Off-System Highway Bridge Program, Jefferson Parish**. Responsibilities included topographic survey to replace one bridge. (2014)
2013	**S.P. No. H.010597.5, Off-System Highway Bridge Program, West Feliciana Parish**. Responsibilities included topographic survey to replace two bridges. (2013)
2013	**S.P. No. H.010061.5 & H.010062.5, Off-System Highway Bridge Program, Tangipahoa Parish**. Responsibilities included topographic survey to replace four bridges. (2013)
2013	**S.P. No. 700-54-0105, Off-System Highway Bridge Program, Morehouse Parish**. Responsibilities included topographic survey to replace two bridges. (2013)
2013	**S.P. No. H.010034.5 & H.010035.5, Off-System Highway Bridge Program, St. Landry Parish**. Responsibilities included topographic survey to replace four bridges. (2013)
2012	**S.P. No. H.009981.5, Off-System Highway Bridge Program, West Carroll Parish**. Responsibilities included topographic survey to replace two bridges. (2012)
2012	**S.P. No. H.009945.5, Off-System Highway Bridge Program, Bossier Parish**. Responsibilities included topographic survey to replace one bridge. (2012)

17. Firm Experience:

Identify the team's project experience **most relevant** to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	GeoEngineers, Inc.			Past Performance Evaluation Discipline(s)*	Geotech
Project name	**I-210 at Cove Lane Interchange (Design and Construction)**			Firm responsibility (prime or sub?)	Prime
Project number	H.010151	Owner's name	Louisiana Department of Transportation and Development		
Project location	Route I-210, Lake Charles, LA			Owner's Project Manager	Benjamin Fernandez
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70816; 225.379.1821; Benjamin.Fernandez@la.gov				
Services commenced by this firm (mm/yy)	08/12	Total consultant contract cost ($1,000's)			Unknown
Services completed by this firm (mm/yy)	07/15	Cost of consultant services provided by this firm ($1,000's)			$2,470



GeoEngineers completed a geotechnical engineering evaluation, design and construction monitoring for the new Interstate 210 (I-210) overpass of Cove Lane in Lake Charles, Calcasieu Parish. This fast-track project required our team to mobilize five different drill rigs for explorations and staff from offices across the country in orderto meet the schedule requirements. We completed engineering analyses and provided design and construction recommendations for about 8,000 driven pile foundations, MSE walls and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. GeoEngineers provided a complete geotechnical investigation, including 128 explorations (43 drilled soil borings and 85 CPTs) to depths in the range of 20 to 120 feet and associated soil laboratory testing for the I-210 overpass structure with approach embankments and ramps, which is aligned within a very crowded corridor between Cline Canal and private property. The proposed embankment overpass structure used a tight urban diamond configuration with a roundabout for the new Cove Lane interchange. The team used Pile Driving Analyzer (PDA) equipment to evaluate and monitorinstallation of one pile every 50 of the 8,000 piles the contractor placed. In addition, our numerous detailed records provided valuable information to the DOTD and team members during the project. The work for this large project had to be performed very close to live traffic. Safety measures were heighted even more to ensure the safety of everyone working on the project and to the ongoing traffic.

Team members: Wendy Allen, James Aronstein, Cody Hatch, Larry Sant, and David Sauls.

Firm name	GeoEngineers, Inc.	Past Performance Evaluation Discipline(s)*	Geotech
Project name	**Design-Build US90 @ LA318 Interchange**	Firm responsibility (prime or sub?)	Sub
Project number	S.P. H.004932	Owner's name	Louisiana Department of Transportation and Development
Project location	St. Mary Parish	Owner's Project Manager	Timothy Nickel, PE
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70816; 225.379.1110; Timothy.Nickel@la.gov		
Services commenced by this firm (mm/yy)	05/15	Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	04/18	Cost of consultant services provided by this firm ($1,000's)	$734

The US90/LA318 Interchange project was in preparation for the conversion of US90 to future I-49 in St. Mary Parish and included construction of access ramps between US90 and LA318, realignment of the frontage road for local access parallel to US90, and elevating US90 over LA318. As part of the design-build team with Gilchrist Construction Company, GeoEngineers provided geotechnical engineering design services and construction recommendations. Our work included completing preliminary designs for compliance with AASHTO LRFD and LADOTD standards. GeoEngineers also provided geotechnical design to the bridge, road and contractor teams as needed throughout the duration of the design-build construction process. Areas of geotechnical design includethe following:

- Review of project geology and explorations previously completed.
- Providing explorations and laboratory testing for foundation, embankment andpavement design.
- Engineering analysis and recommendations for driven pile foundations for highwayoverpass bridges and drainage culvert design.
- Engineering analysis and recommendations for wick drains and surcharge to reduce post-construction embankment settlement, including field monitoring.
- Field monitoring of pile dynamic testing including WEAP and PDA analysis.

Team members: James Aronstein, Cody Hatch, Larry Sant, and David Sauls.

Firm name	GeoEngineers, Inc.		Past Performance Evaluation Discipline(s)*	Geotech	
Project name	**Loyola Drive/I-10 Interchange to New Airport Terminal Design Build**		Firm responsibility (prime or sub?)	Sub	
Project number	H.011670	Owner's name	Louisiana Department of Transportation and Development		
Project location	Jefferson Parish, Louisiana		Owner's Project Manager	Tim Nickel, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225.379.1110, Timothy.Nickel@la.gov				
Services commenced by this firm (mm/yy)	01/19	Total consultant contract cost ($1,000's)		~$125,000	
Services completed by this firm (mm/yy)	11/22	Cost of consultant services provided by this firm ($1,000's)		$1,100	

GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile design build project that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. The existing I-10 interchange is a multi-level, controlled-access interchange consisting of two overpass bridges. The LANOIA Airport is planning to build a new terminal and subsequently move the I-10 exit from Williams Boulevard to Loyola Drive. To do this, LA DOTD hired a design-build team to:

- Modify the existing ramps and construct a new multi-level interchange, including two one-way elevated flyovers and adiverging diamond on at-grade interchange Loyola Drive.
- Add auxiliary lanes along I-10, including over Duncan Canal.
- Construct noise barriers at various locations throughout the project corridor.
- Upgrade Loyola Drive north and south of I-10 and tie it into the LANOIA corridor Airport Access Road.
- Improve drainage and lighting, relocate utilities, and provide pier protection.

As part of the design build procurement process, GeoEngineers developed a preliminary subsurface conditions evaluation describing local geology, available geotechnical information, and plotted preliminary design standards to help refine the team's design approach. Now that our team has been awarded the contract, GeoEngineers is working with the contractor and design team to provide the geotechnical investigations, analyses, design, and construction. Our design services including providing foundation, embankment, pile, and pavement design recommendations.

Team members: James Aronstein, Cody Hatch, Larry Sant, and David Sauls.

Firm name	GeoEngineers, Inc.			Past Performance Evaluation Discipline(s)*	Geotech
Project name	**Jimmy Davis Bridge Prelim Explorations**			Firm responsibility (prime or sub?)	Prime
Project number	H.001779	Owner's name	Louisiana Department of Transportation and Development		
Project location	Caddo and Bossier Parishes			Owner's Project Manager	Kristy Smith, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225.379.1387, Kristy.Smith@la.gov				
Services commenced by this firm (mm/yy)	10/21	Total consultant contract cost ($1,000's)			Unknown
Services completed by this firm (mm/yy)	06/22	Cost of consultant services provided by this firm ($1,000's)			$902

GeoEngineers is completing the fast-tracked preliminary geotechnical exploration and testing for this high-profile design-build project that is in preparation for the replacement of the Jimmie Davis Bridge over the Red River, along LA 511 in Bossier City, Louisiana. We understand that the new bridge will be designed by a design build team to be selected by LADOTD. Our services for this Task Order included:

- 38 soil borings, including:
  - 29 deep borings in the bridge areas to 120-ft with truck-mounted rig
  - 3 deep borings in the Red River channel to 150-ft from barge-mounted rig
  - 3 deep borings in the Red River wooded shoreline area to 150-ft with marsh buggy
  - 3 roadway borings to 8-ft with truck-mounted rig
- Laboratory testing of 75% of cohesive samples (strength and limits)
- Laboratory testing of non-cohesive samples (gradation)
- Consolidation laboratory testing
- Permits from both Caddo and Bossier Levee Districts
- Traffic control
- DOTD-style gINT boring logs on plan sheets

Team members: James Aronstein, Larry Sant, Cody Hatch, Greg Adams, Kyle Kilfian, Jamie McLeod, and Denzel Flores.

Firm name	GeoEngineers, Inc.			Past Performance Evaluation Discipline(s)*	Geotech
Project name	**I-10 Bridge Replacement: Texas State Line to Coon Gully**			Firm responsibility (prime or sub?)	Prime
Project number	H.003184	Owner's name	Louisiana Department of Transportation and Development		
Project location	Calcasieu Parish, Louisiana			Owner's Project Manager	Kristy Smith, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225.379.1387, Kristy.Smith@la.gov				
Services commenced by this firm (mm/yy)	06/18	Total consultant contract cost ($1,000's)			Unknown
Services completed by this firm (mm/yy)	04/19	Cost of consultant services provided by this firm ($1,000's)			$331

GeoEngineers completed the field investigation and testing for this project through our current retainer contract to replace five bridges along I-10 between the Texas state line and Coon Gully near Vinton, Louisiana. Our services for this Task Order included:

- 21 soil borings, including:
  - 10 deep borings in the bridge areas along I-10 to 120-ft with truck-mounted rig
  - 1 deep boring in the Vinton Canal to 120-ft from pontoon-mounted rig
  - 10 deep borings in the Sabine River Relief wooded area to 120-ft with ATV-mounted rig
- Laboratory testing of 75% of cohesive samples (strength and limits)
- Laboratory testing of non-cohesive samples (gradation)
- Consolidation laboratory testing
- Traffic control on I-10
- DOTD-style gINT boring logs on plan sheets

Team members: James Aronstein, Larry Sant, Cody Hatch, Ivy Harmon, Greg Adams, Jamie McLeod, and Denzel Flores.

Firm name	Adaptive Management and Engineering, LLC			Past Performance Evaluation Discipline(s)*	Geotech
Project name	**Proposed Pavement Expansion for the Highland Road at Siegen Lane/Burbank Drive Intersection**			Firm responsibility (prime or sub?)	Sub
Project number	20-CP-HC-0004	Owner's name	City of Baton Rouge and Parish of East Baton Rouge		
Project location	Baton Rouge, LA			Owner's Project Manager	Seneca Toussant, P.E.
Owner's address, phone, email	343 Third Street, Suite 511B, 225-960-1160; stoussant@laterre-eng.com (Design Team Contact)				
Services commenced by this firm (mm/yy)	01/20	Total consultant contract cost ($1,000's)	Unknown		
Services completed by this firm (mm/yy)	03/22	Cost of consultant services provided by this firm ($1,000's)	$25		

The project consists of several options to increase turn lanes, increase storage lengths, and provide additional capacity through the Highland Road and Siegen Lane/Burbank Drive intersection. Mr. McKinney coordinated and oversaw the field exploration for the project, which included 8 soil borings and a hand auger. Field exploration was completed on the existing pavement by Mr. McKinney, which required traffic control. Mr. Tammineni provided pavement design recommendations for the proposed pavement expansions. Mr. Tammineni coordinated all aspects of the project including, but not limited to preparation of the proposal for the project, discussion/coordination with the design team, obtaining DOTD permit, executing field exploration program, assigning laboratory tests, performing pavement analyses, and preparing the geotechnical report that has been reviewed and accepted by the design team.

Firm name	Adaptive Management and Engineering, LLC			Past Performance Evaluation Discipline(s)*	Geotech
Project name	**Patterson 2022 Street Improvements**			Firm responsibility (prime or sub?)	sub
Project number	N/A	Owner's name	City of Patterson		
Project location	St. Mary Parish, LA			Owner's Project Manager	Melanie Caillouet, PE
Owner's address, phone, email	1297 St. Charles Street, Suite H, Houma, Louisiana 70360, 985-876-6380, MelanieCaillouet@ProvidenceEng.com				
Services commenced by this firm (mm/yy)		03/22	Total consultant contract cost ($1,000's)		Unknown
Services completed by this firm (mm/yy)		04/22	Cost of consultant services provided by this firm ($1,000's)		$8

The City of Patterson is conducting roadway improvements for selected roads throughout the city. The roadway surfaces are currently asphalt or crushed limestone wearing surface, with an aggregate and sand base layer present in some locations. The asphalt surface layer has degraded in multiple locations, exposing the crushed limestone base. AME performed 8 soil borings on the existing roadways in support of a new pavement design. The field explorations were coordinated and overseen by Mr. McKinney. A full suite of laboratory testing was performed on the thin-walled tube samples. Mr. Ator oversaw and performed QA/QC on all laboratory testing, and generated soil boring logs for the project. Engineering design and reporting was overseen by Mr. Tammineni.

Firm name	Adaptive Management and Engineering, LLC			Past Performance Evaluation Discipline(s)*	Geotech
Project name	**1.4Group, Inc Proposed Warehouse Facility**			Firm responsibility (prime or sub?)	sub
Project number	N/A	Owner's name	1.4Group,Inc.		
Project location	Ascension Parish, LA			Owner's Project Manager	Gary Leonards, PE
Owner's address, phone, email	1297 St. Charles Street, Suite H, Houma, Louisiana 70360, 225-766-7400, GaryLeonards@ProvidenceEng.com				
Services commenced by this firm (mm/yy)		01/22	Total consultant contract cost ($1,000's)		Unknown
Services completed by this firm (mm/yy)		03/22	Cost of consultant services provided by this firm ($1,000's)		$27

The proposed warehouse project parcel is an approximately 9-acre, previously forested lot in Geismar, Louisiana. The warehouse facility will include various structures including a chiller and boiler, main plant, laboratory, warehouse, office building, a parking lot, and roadways. The pavement design for the project includes both rigid and flexible pavements to be accessed by heavily loaded vehicles. Mr. McKinney coordinated the field exploration activities, which included five soil borings and 15 CPTs completed to a depth of up to 60 feet below ground surface. Mr. Ator oversaw laboratory testing for the project, performed QA/QC, and generated boring and CPT logs. Technical guidance for engineering analyses and reporting was provided by Mr. Tammineni.

Firm name	Land Source, Inc.			Past Performance Evaluation Discipline(s)*	Survey
Project name	**Bridge Project @ Bayou D'Arbonne-LA 143**			Firm responsibility (prime or sub?)	Sub
Project number	No. H.010015	Owner's name	Louisiana Department of Transportation and Development		
Project location	Ouachita Parish		Owner's Project Manager	GeoEngineers, Inc.	
Owner's address, phone, email	11955 Lakeland Park Blvd., Suite 100, Baton Rouge, LA 70809, (225)293-2460, chatch@geoengineers.com				
Services commenced by this firm (mm/yy)	03/2021	Total consultant contract cost ($1,000's)			Unknown
Services completed by this firm (mm/yy)	10/2021	Cost of consultant services provided by this firm ($1,000's)			$6.65

We provided all field surveying, office computations and preparation of the report for the six (6) borings and four (4) CPT's. Our field work included running GPS Static Sessions, locating each bore hole and a tie to the project alignment. Our office work included post processing the GPS data and providing a report with State Plane Coordinates, Latitude and Longitude, elevation, and a station and offset that correlated with the field roll.

Firm name	Land Source, Inc.			Past Performance Evaluation Discipline(s)*	Survey
Project name	**Jimmie Davis Bridge-LA 511**			Firm responsibility (prime or sub?)	Sub
Project number	H.001779	Owner's name	Louisiana Department of Transportation and Development		
Project location	Bossier & Caddo Parishes			Owner's Project Manager	Kristy Smith
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225.379.1387, Kristy.Smith@la.gov				
Services commenced by this firm (mm/yy)	02/2022		Total consultant contract cost ($1,000's)		Unknown
Services completed by this firm (mm/yy)	02/2022		Cost of consultant services provided by this firm ($1,000's)		$18.5

We surveyed thirty-nine (39) borings. Our field work included running GPS Static Sessions, locating each bore hole and a tie to the project alignment. Our office work included post processing the GPS data and providing a report providing State Plane Coordinates, Latitude and Longitude, elevation, and a Station and offset that correlates with the field roll.

Firm name	Land Source, Inc.			Past Performance Evaluation Discipline(s)*	Survey
Project name	**Soil Boring Stakeout at Thompson Creek Road**			Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	Monroe & Corie		
Project location	Bossier & Caddo Parishes			Owner's Project Manager	Raoul Robert
Owner's address, phone, email	11325 Pennywood Avenue, Baton Rouge, LA 70809, (225) 293-1905, chc@monroecorie.com				
Services commenced by this firm (mm/yy)	09/2019			Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	09/2019			Cost of consultant services provided by this firm ($1,000's)	$5.0

We performed field surveying, office computations and stakeout of the borings on the dam. Our field work included setting up GPS control on day one via static GPS observations and located the two property corners along Thompson Creek Road. In the office we processed the data, reduced the two property corners and provided coordinates of the points. We set the nodes on the boring locations and staked the borings. The laths were set on 1-5 with flagging for the boring crews.

18. Approach and Methodology:

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

GeoEngineers, Inc. is a long-established Baton Rouge geotechnical engineering firm that has been drilling and providing geotechnical services in Louisiana since the 1960s. Through this experience, our Baton Rouge-based team of over 35 staff brings tremendous understanding of the local and state conditions anticipated on LA DOTD projects. GeoEngineers' Baton Rouge office will perform the work with occasional support from our additional 300+ staff throughout the company, as needed. With a long, successful history of working collaboratively with LA DOTD on dozens of projects, including through the geotechnical retainer contract, we will continue to provide you with:

- **A commitment to and culture of safety.** GeoEngineers understands the importance of safety. We annually renew our commitment to safety through our company-wide program, Home Safe Every Day, which starts with the important belief that all injuries and occupational illnesses can be prevented. By doing so, each of GeoEngineers' employees, our clients and team members we work with can go Home Safe Every Day.
- **Local tenured technical experts and resources.** Our Baton Rouge-based team has the geotechnical expertise from field to lab to engineering analysis that you require for transportation projects. We have completed hundreds of road and bridge geotechnical projects throughout Louisiana, providing us an in-depth understanding of the geologic and geotechnical conditions across the state.
- **In-House equipment.** Our in-house resources include four drill rigs, two truck-mounted rigs, one ATV, one skid-mounted rig and a soil mechanics laboratory, all backed by more than 300 staff firmwide. Because we have these resources and staff, we can schedule staff and equipment for your projects, helping get projects going without delays.
- **Historic geotechnical database.** We have extensive the in-house expertise resources and a geologic, hydrogeologic and geotechnical database for the State of Louisiana stemming from subsurface explorations from the last 52 years. Our resources and expertise enable us to be very responsive to your needs, special requests and the demands of this contract.
- **A plan to meet the Work Zone Training requirements.** We plan to meet the Work Zone Training Requirements utilizing staff in our Baton Rouge office who have received the required training.
- **A history of finding successful geotechnical solutions in the Gulf South.** We have been providing geotechnical services to the LA DOTD, Louisiana Department of Natural Resources (LA DNR), and the City of Baton Rouge as well as many energy

and infrastructure companies throughout the region for decades. From straightforward to challenging projects, our team anticipates and mitigates potential challenges, and is committed to advocating on behalf of LA DOTD during each project.

- **A focus on QA/QC.** GeoEngineers is committed to meeting or exceeding your expectations for professional quality, technical accuracy, and the timely completion and submission of project deliverables. We will submit a Quality Assurance/Quality Control Plan within 10 days of award of contract.

Geotechnical Approach and Methodology

All work will be performed in accordance with the requirements of the advertisement and the resulting contract and Task Orders. The exact geotechnical scope will be developed for shallow and deep borings in consultation with LADOTD along with the geotechnical design services required for each project.

We will make a site reconnaissance visit before equipment mobilization to evaluate weather conditions and compatibility with the site conditions at the locations you requested. At that time, we will make one-call notices. When we proceed with drilling operations, samples of cohesive or semi-cohesive material will be obtained using a 3-inch-diameter Shelby tube sampling barrel. Samples of cohesionless soils will be obtained using a split-spoon sampler in conjunction with Standard Penetration Tests (SPT) at 3-foot intervals for the first 10 feet of each cohesionless strata. Groundwater levels will be observed in one 24-hour reading and when present at shallow depths (<20-foot depth).

The boring logs and laboratory test results that will be submitted are the result of the efforts and knowledge of the engineer and must be prepared under the engineer's responsible charge. To fulfil this duty, we will be engaged and proactive throughout the entire process to lead our efforts so that we obtain specific data that is required for the bridge design. The engineer's involvement begins in the preparation of the scope and continues through the following efforts to obtain accurate and useful results to input in design:

1. Field Brief – Before mobilization of the drilling crew, the engineer will have some brief meetings with the field supervisor, who has visited the site and assessed safety and access, and to review the prepared drilling plan. This plan is then communicated to the drilling crew and logger, along with the boring location plan figure. High-quality and accurate boring logs begin with the quality of the field exploration and samples recovered, which is a direct result of the drilling crew and logger being properly briefed for the specific project needs.
2. Exploration – The engineer is available daily during field exploration to address questions or concerns that arise and provides guidance and feedback to the crew after review of each daily field report. Additionally, we can forward the daily field reports and field logs to LADOTD, if desired.
3. Laboratory – After samples are returned to the laboratory, while extrusion and testing are performed, the engineer is consulted for guidance about preliminary classification and which testing assignments are needed based on the composition of the soil extruded. The engineer then reviews the developed plan for testing the selected soil samples and is consulted during testing to revise the plan as needed based on real-time updates and the specific data required for the bridge design.

4. Boring Logs – Laboratory test results are input into LADOTD gINT boring logs, and the engineer reviews the testing results, the entries, and the overall stratigraphy of the subsurface based on experience and judgement. The logs are then completed based on the engineers' edits.
5. Seal – The final logs are then completed based on the owners' edits, after discussion and agreement. The engineer is then able to stamp the final boring logs, having been responsible for their generation from before sample collection through final reporting. This last portion of 'responsible charge' includes developing a letter report to submit with the final logs and laboratory test results.

Because the engineer will be engaged and proactive throughout the entire process, we will obtain the specific data that is required, accurate and useful, which results in a more optimized design. GeoEngineers is fully capable of completing any requested geotechnical design. In addition to our decades of experience in the Gulf South we also have expertise geotechnical resources to complete any design that may be needed.

We have developed a Quality Assurance/Quality Control (QA/QC) program in order to provide a mechanism by which all deliverables will be subject to a systematic and consistent review. All work and deliverables will be developed and reviewed in accordance with the QA/QC program. This will ensure quality deliverables that adhere to established DOTD policies, procedures, standards and guidelines. Any deliverables will be transmitted with a DOTD QA/QC Checklist, and a certification that the deliverables meet DOTD's quality standards.

Subconsultants

Both AME and LandSource will be utilized for geotechnical laboratory testing support and surveying, respectively.

AME - AME is a DBE and a Hudson Initiative firm located in Baton Rouge, Louisiana with firm license number of EF.0006701. AME provides geotechnical, instrumentation, and construction monitoring services to various public and private sector clients. Our personnel have considerable experience working in the soft fine-grained soils of southern Louisiana, including coastal, alluvial and Pleistocene soils. AME's fleet of field exploration equipment includes an ATV-mounted drill rig, a hand auger, and a miniature vibratory coring sampler. We have a full-service AASHTO accredited and USACE Validated geotechnical laboratory in Baton Rouge, offering soil extruding, classification testing, strength testing, and specialized testing (consolidation, permeability, miniature vane and other tests).

LandSource - The scope of work includes GPS latitude and longitude and natural ground elevation of boring locations surveyed by a Professional Land Surveyor licensed in Louisiana. LandSource, Inc. is submitting as a Sub-Consultant and will perform 100% of the Survey Services required for the Project. LandSource, Inc. is capable of performing all of the land surveying services required for the timely completion of this project. Since 1988, members of LandSource have successfully demonstrated capabilities on various contracts with the LA DOTD.

Firm Experience

GeoEngineers has been awarded more than five retainer contracts with the LA DOTD since 1993. In addition, we have worked on over 100 other LA DOTD contracts for road and bridge projects over the years and provided geotechnical investigations for more than 200 bridges in Louisiana. The **map to the right** shows all parishes where GeoEngineers has performed LA DOTD work—most of the work in the highlighted parishes are bridge replacements. Importantly, the drilling, laboratory and engineering staff who have worked on these numerous transportation projects are still working from GeoEngineers' Baton Rouge office.

With the depth of technical expertise and breadth of staff resources, GeoEngineers has been a trusted partner for geotechnical engineering services to state Departments of Transportation across the country and sought-after teaming partners for complex projects. A snapshot of some of the LA DOTD projects GeoEngineers has worked on are described in detail in previous sections, and a further list of projects is provided below. This experience gives a thorough understanding of the best way we can provide our services to anticipate and advocate for LA DOTD, including Louisiana-specific requirements and how federal requirements influence LA DOTD projects. In addition to LA DOTD, we have worked on projects small to large for Departments of Transportation (DOTs) for Washington, Oregon, Idaho, Utah, Missouri, and South Carolina. This national experience provides our team with a unique perspective on developing solutions that address short and long-term transportation infrastructure challenges
DOTs face.

Why GeoEngineers?

We are excited for the opportunity to continue to collaborate with LA DOTD, bringing:

- Tenured, LA DOTD-experienced staff to meet the project needs anticipated under this contract.
- Local, accessible team just 11.5 miles from the LA DOTD to our Baton Rouge office, enabling us to meet with LA DOTD staff on short notice.
- Specialized in-house equipment, preventing the need for equipment subcontractors, and allowing us to schedule our geotechnical investigations quickly and within your schedule.
- Capacity to complete multiple task orders with varying timelines.
- A unified commitment to safety, where our team is committed to anticipating and preparing for any circumstances, so we go Home Safe Every Day.

We want to continue working with you to creatively solve the transportation challenges of today and tomorrow.

19. Workload:

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

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

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

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
GeoEngineers	Geotech	H.003370	DB I-20 Barksdale/GT OV-QA	$79,902
GeoEngineers	Geotech	H.004791	P3 Belle Chasse Bridge & Tunnel	$302,064
GeoEngineers	Geotech	H.011670	Loyola Dr/I-10 Interchange	$2,000
GeoEngineers	Geotech	H.002176	LA10 Bridges	$184,038
GeoEngineers	Geotech	H.001779	Jimmy Davis Bridge Prelim Explorations	$166,919
AME	Geotech	N/A	N/A	$0
LandSource	Survey	NA	N/A	$0

(Add rows as needed) DO NOT SUM

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

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

20. Certifications/Licenses:

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

See attached for prime and subconsultants certifications/licenses.

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

If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and email address**	**Phone Number**
Adaptive Management and Engineering, LLC	11429 Pennywood Avenue Baton Rouge, LA 70809	Venu Tammineni, PE venu@amesouth.com	225.424.7869
LandSource, Inc.	6730 Exchequer Drive Baton Rouge, LA 70809	David L. Patterson, PLS Patterson@landsource.com	225.752.0995

(Add rows as needed)

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank.

Certifications/ Licenses

Louisiana Professional Engineering and Land Surveying Board

Hereby Certifies that

GeoEngineers, Inc.

has complied with the regulation of this Board and is authorized to provide or to offer to provide engineering services in the State of Louisiana contingent upon payment of the annual renewal fee.

Baton Rouge, Louisiana · 06/27/2007

Chairman

Secretary

License Number 3700

AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AASHTO

GeoEngineers, Inc.

in

Baton Rouge, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).

Jim Tymon,
AASHTO Executive Director

Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 05/10/2022 at 3:54 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

Scope of AASHTO Accreditation for:

GeoEngineers, Inc.

in Baton Rouge, Louisiana, USA

Quality Management System

Standard:		Accredited Since:
R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	02/09/2012
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	06/30/2016

Scope of AASHTO Accreditation for:

GeoEngineers, Inc.

in Baton Rouge, Louisiana, USA

Soil

Standard:	Accredited Since:
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	12/20/2012
D422 Particle Size Analysis of Soils by Hydrometer	12/20/2012
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	12/20/2012
D854 Specific Gravity of Soils	12/20/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	02/09/2012
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	12/20/2012
D2166 Unconfined Compressive Strength of Cohesive Soil	12/20/2012
D2216 Laboratory Determination of Moisture Content of Soils	12/20/2012
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	12/20/2012
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	02/09/2012
D2488 Description and Identification of Soils (Visual-Manual Procedure)	02/09/2012
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	12/20/2012
D2974 Determination of Organic Content in Soils by Loss on Ignition	12/20/2012
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	12/20/2012
D4318 Plastic Limit of Soils (Atterberg Limits)	12/20/2012
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	06/01/2016
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	06/01/2016
D4767 Consolidated-Undrained Triaxial Compression Test on Cohesive Soils	06/01/2016
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	06/01/2016
D6913 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	06/01/2016
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/19/2014

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/10/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. James M. Aronstein Jr.
11955 Lakeland Park Boulevard, Suite 100
Baton Rouge, Louisiana 708094217

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. James M. Aronstein Jr.

License/Certificate Type - Number	Expiration Date
PE.0011794	03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/10/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Larry Dean Sant
15635 Malvern Hill
Baton Rouge, Louisiana 70817

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Larry Dean Sant

License/Certificate Type - Number	Expiration Date
PE.0035625	09/30/2022

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/10/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. David Preston Sauls
11955 Lakeland Park Boulevard, Suite 100
Baton Rouge, Louisiana 70809

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. David Preston Sauls

License/Certificate Type - Number: PE.0023270

Expiration Date: 03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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Disclaimer
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/10/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Blake Eric Cotton
11955 Lakeland Park Boulevard, Suite 100
Baton Rouge, Louisiana 70809

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Blake Eric Cotton

License/Certificate Type - Number	Expiration Date
PE.0028039	03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/10/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Cody Kellis Hatch
11955 Lakeland Park Boulevard, Suite 100
Baton Rouge, Louisiana 70809

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Cody Kellis Hatch

License/Certificate Type - Number	Expiration Date
PE.0042346	09/30/2022

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/24/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Ivy Alene Harmon
10246 Dream Glo Lane
St. Francisville, Louisiana 70775

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Ivy Alene Harmon

License/Certificate Type - Number	Expiration Date
PE.0041035	03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/10/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Denzel Nadjee Flores
10086 Oliphant Road
Baton Rouge, Louisiana 70809

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Denzel Nadjee Flores

License/Certificate Type - Number	Expiration Date
EI.0033825	03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
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Office of Conservation | Department of Natural Resources
STATE OF LOUISIANA

WATER WELL CONTRACTOR'S LICENSE

The Office of Conservation
for the Department of Natural Resource
State of Louisiana

hereby acknowledges that

GEOENGINEERS, INC.

GREGORY K. ADAMS

has been licensed to drill water wells under the provisions of R.S. 38:3098
and is entitled to practice in the state of Lousiana as a Water Well Contractor.

This License is non-transferable and expires ***June 30, 2023*** unless
renewed, revoked or suspended by the licensing authority as prescribed by statue.

Signed and sealed this ***15th*** day of ***June***, ***2022***

RICHARD P. IEYOUB
COMMISSIONER OF CONSERVATION
Office of Conservation
Louisiana Department of Natural Resources

License No. WWC- ***# 724***

Office of Conservation | Department of Natural Resources
STATE OF LOUISIANA

WATER WELL CONTRACTOR'S LICENSE

The Office of Conservation
for the Department of Natural Resource
State of Louisiana

hereby acknowledges that

GEOENGINEERS, INC.

Kyle Kilfian

has been licensed to drill monitoring wells under the provisions of R.S. 38:3098
and is entitled to practice in the state of Lousiana as a Water Well Contractor.

This License is non-transferable and expires ***June 30, 2023*** unless
renewed, revoked or suspended by the licensing authority as prescribed by statue.

Signed and sealed this ***25th*** day of ***April*** , ***2022***

RICHARD P. IEYOUB
COMMISSIONER OF CONSERVATION
Office of Conservation
Louisiana Department of Natural Resources

License No. WWC- ***# 724***

The American Traffic Safety Services Association

Hereby recognizes that

Larry Sant

has attended

Traffic Control Supervisor-LA State Specific

Training Course

09/05/2018 to 09/05/2018
Date

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Silvyka
Training & Products Dept. Director

Ryn A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Larry Sant

has attended

Traffic Control Technician - LA State Specific

Training Course

09/04/2018 to 09/04/2018
Date

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Silvyka
Training & Products Dept. Director

Ryn A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Cody Hatch

has attended

Traffic Control Technician-LA State Specific

Training Course

2/11/2020 to 2/11/2020
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Ruszala
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Cody Hatch

has attended

Traffic Control Supervisor-LA State Specific

Training Course

2/12/2020 to 2/13/2020
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Ruszala
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

ATSSA
SAFER ROADS SAVE LIVES

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

LARRY D. SANT

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Expiration Date 9-7-22 *State Issued in* LA

Instructor Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kyle Kilfian

has attended

Traffic Control Technician-LA State Specific

Training Course

10/5/2021 to 10/5/2025
Training Valid Through

New Orleans, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kyle Kilfian

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

10/8/2021 to 10/8/2025
Training Valid Through

New Orleans, LA
Location

Director of Training

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jammie McLeod

has attended

Traffic Control Technician-LA State Specific

Training Course

10/5/2021 to 10/5/2025
Training Valid Through

New Orleans, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jammie McLeod

has attended

Traffic Control Supervisor-LA State Specific

Training Course

10/6/2021 to 10/7/2025
Training Valid Through

New Orleans, LA
Location

Director of Training

President, CEO

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

ATSSA

American Traffic Safety Services Association ATSSA.com

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

Adaptive Management and Engineering, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC541330 NC541380

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: February 2022 to February 2023

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Office of Conservation | Department of Natural Resources
STATE OF LOUISIANA

WATER WELL CONTRACTOR'S LICENSE

The Office of Conservation
for the Department of Natural Resource
State of Louisiana

hereby acknowledges that

ADAPTIVE MANAGEMENT ENGINEERING

Michael McKinney

has been licensed to drill monitoring wells under the provisions of R.S. 38:3098 and is entitled to practice in the state of Lousiana as a Water Well Contractor.

This License is non-transferable and expires ***June 30, 2022*** unless renewed, revoked or suspended by the licensing authority as prescribed by statue.

Signed and sealed this ***9th*** day of ***August***, ***2021***

RICHARD P. IEYOUB
COMMISSIONER OF CONSERVATION
Office of Conservation
Louisiana Department of Natural Resources

License No. WWC- ***# 867***

The American Traffic Safety Services Association

Hereby recognizes that

Michael McKinney

has attended

Traffic Control Supervisor-LA State Specific

Training Course

11/13/2019 to 11/14/2019
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Schuyler
Training & Products Dept. Director

Ryn A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Ryan Williamson

has attended

Traffic Control Supervisor-LA State Specific

Training Course

11/13/2019 to 11/14/2019
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Klingler
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/3/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. David Lee Patterson
6730 Exchequer Drive
Baton Rouge, Louisiana 70809

Cut Here

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. David Lee Patterson

License/Certificate Type - Number
PLS.0004784

Expiration Date
03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/3/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Scott Lee Patterson
6730 Exchequer Drive
Baton Rouge, Louisiana 70809

Cut Here

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Scott Lee Patterson

License/Certificate Type - Number
PLS.0005246

Expiration Date
09/30/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

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CERTIFIED SURVEY TECHNICIAN

Michael C. Pitre

through knowledge, experience and testing has met the requirements

established by the Certified Survey Technician Board.

Level III Boundary

Level

President

1003-1863

Certificate Number

6/30/2022

Expiration Date

NSPS

NSPS CST CERTIFIED SURVEY TECHNICIAN

LOUISIANA ECONOMIC DEVELOPMENT

DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

LandSource, Inc.

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 5/5/2022 to 5/5/2023 .

Certification No. 10098

Stephanie Hartman,
Director, Entrepreneurial Services

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

Name:

Landsource, Inc.

Public Address:

Ms. Sandra Wiley6730 Exchequer Drive

Baton Rouge, Louisiana 70809

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000377	Active	02/13/1996	09/30/2022	Mr. David Lee Patterson # PLS.0004784 - Active

City of Baton Rouge - Parish of East Baton Rouge
Department of Finance - Revenue Division

P O Box 2590
Baton Rouge, LA 70821-2590
Phone (225) 389-3084 Fax (225) 389-5369
www.brgov.com/dept/finance

OCCUPATIONAL LICENSE TAX

Effective Date: January 01, 2022 **Expiration Date: December 31, 2022**

LANDSOURCE INC

6730 EXCHEQUER DR
BATON ROUGE, LA 70809

Location:

6730 EXCHEQUER DR
BATON ROUGE, LA 70809-0000

Account Number 00460927

Owner Name:
LANDSOURCE INC

By: _____
Authorized Signature

Open Date: January 01, 1996

541000 Professional, Scientific & Technical Services OLT Only

NON-TRANSFERRABLE

This Certificate must be publicly displayed as provided by law. Each location of a business must be registered separately. Any business located in Baker, Zachary or Central, including itinerant vendors operating there, must register for an occupational license in those municipalities.

If this business is closed, moved, or sold, taxpayer will indicate this on the reverse side of this certificate, sign and forward it to the City-Parish Revenue Division.

This certificate DOES NOT exempt the bearer from complying with all applicable permits and inspections requirements from the Department of Public Works or any other City-Parish laws or regulations regarding the legal requirements of operating a business in East Baton Rouge Parish.

LAW REQUIRES POSTING IN A CONSPICUOUS PLACE

92,353

LANDSOURCE, INC.

DUNS Unique Entity ID
964948004

SAM Unique Entity ID
HL3RJBJMEB76

CAGE/NCAGE
432Y8

Registration Status	*Expiration Date*
Active	Jan 21, 2023

Purpose of Registration
All Awards

Physical Address
6730 Exchequer DR
Baton Rouge, Louisiana
70809-5181, United States

Mailing Address
6730 Exchequer Drive
Baton Rouge, Louisiana
70809-5181, United States

*The DUNS number is currently the official Unique Entity ID

The American Traffic Safety Services Association

Hereby recognizes that

Keith Hayes

has attended

Traffic Control Technician-LA State Specific

Training Course

12/4/2018 to 12/4/2018
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Melvin Hurst

has attended

Traffic Control Technician-LA State Specific

Training Course

12/4/2018 to 12/4/2018
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Shaughn
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

GeoEngineers

Earth Science + Technology