TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 22-012, Resolution No. 138808
Laboratory Services for Inspection of Materials and Equipment for Public Works Projects

B. Firm Name & Address:

Eustis Engineering L.L.C.
3011 28th Street, Metairie, Louisiana 70002

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / gsanders@eustiseng.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / gsanders@eustiseng.com

E. Please provide the number of employees whose primary function corresponds with each category:

10	Administrative		Estimators		Specification Writers
	Architects (Licensed)	2	Geologists		Structural Engineers
	Chemical Engineers	15	Geotechnical Engineers	1	Graduate Engineers
	Civil Engineers		Interior Designers		Project Managers
	Construction Inspectors		Landscape Architects	6	Clerical
	Ecologists		Land Surveyor		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
3	Engineer Intern		Environmental Engineers	41	**Other**
	Professional Land Surveyors				
				78	**TOTAL**

F. Is this submittal is a JOINT-VENTURE? Please check: YES ☐ NO ☒

If marked "No," skip to Section I. If marked "Yes," complete Sections G-H.

Jefferson Parish State of Louisiana

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.
1. Not applicable.
2.

H Has this JOINT-VENTURE previously worked together: Please check:
YES ☐ **NO** ☐

I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Not Applicable.		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

We estimate **16** individuals will be needed to complete the geotechnical services associated with projects under this advertisement. This includes a three-member drill crew as well as laboratory, clerical, and engineering staff. More employees can be added, as necessary, to complete any project.

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)

Project Assignment:

Professional in Charge of the Project / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

17

Education: Degree(s)/Year/Specialization:

Graduate Certificate / 2018 / Coastal Engineering
Master of Science / 2017 / Engineering
Master of Science / 2015 / Engineering Management
Bachelor of Science / 1998 / Geotechnical & Structural Engineering

Active Registration: Year First Registered/Discipline:

Louisiana: 2004 / Civil Engineering
Alabama: 2017 / Engineering
Florida: 2016 / Engineering
Texas: 2016 / Civil Engineering

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

Member: American Council of Engineering Companies
Member: American Society of Civil Engineers
Member: Chi Epsilon (Civil Engineering Honor Society)
Member: Deep Foundations Institute
Member: The Honor Society of Phi Kappa Phi
Member: Pile Driving Contractors Association
Member: Geoprofessional Business Association
Member: American Concrete Institute

Professional Experience

Mr. Richards' experience in the field of civil and geotechnical engineering includes responsibility for the technical and supervisory functions of planning, permitting, design, exploration, construction materials testing, and project management. He has been involved in a variety of project assignments including residential, commercial, and municipal clientele practicing in the fields of land development and geotechnical engineering. In addition, he is experienced in the geotechnical design and construction quality control of foundations for industrial, levee, and heavy civil construction projects.

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)

Mr. Richards began with Eustis Engineering as Staff Engineer in 1999. Mr. Richards' experience includes all phases of geotechnical engineering practice with particular emphasis in planning field exploration programs, supervision of soil mechanics laboratory testing, engineering analyses, and report presentation. He is proficient with analyses that include allowable soil bearing values, pile load capacities, slope stability, settlement estimates, pavement designs, and other analyses pertinent to the preparation of geotechnical reports. An understanding of these analyses also assists with the review of plans, specifications, and contractor submittals associated with the construction of these features.

In addition to geotechnical engineering, Mr. Richards has experience with management of construction materials testing, and in-situ instrumentation while working for Universal Engineering Sciences, LLC, Louisiana Transportation Research Center, and Eustis Engineering. Mr. Richards has been the engineer in responsible charge of construction materials testing/construction quality control departments on projects such as 2,000-home residential developments, major FDOT transportation projects, and several large-scale projects for the Everglades Restoration Program in association with the U.S. Army Corps of Engineers. His current principal focus is the oversight and quality control of Eustis Engineering's construction materials testing services at the organizational level. This includes the day-to-day involvement with operational components in all branches, technical liaison to branch managers, management of internal quality control resources, and planning of construction materials testing capabilities and services.

Mr. Richards began his geotechnical engineering career installing and monitoring strain gauge instrumentation on various construction components including geotextiles, concrete, corrugated pipe, and carbon fiber reinforcements for various entities including the State of Louisiana Department of Transportation and Development. He continues to oversee the instrumentation services provided by Eustis Engineering which include the installation and monitoring of slope inclinometers, settlement plates, settlement gauges, piezometers, strain gauges, and SAA inclinometers. He has recently upgraded the delivery of data monitoring services through the use of data logger systems and near real-time remote sensing equipment.

Mr. Richards currently provides oversight of the in-house testing and development of instrumentation for marsh creation and coastal restoration projects. This includes the supervision of our settling column and self-weight consolidation testing.

Some of his experience relative to this submittal includes the following:

- State of Louisiana Department of Transportation and Development – Ames Boulevard between the West Bank Expressway and Happy Street, Jefferson Parish, Louisiana
- Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana
- East Jefferson Levee District – Foreshore Repair Pilot Project, Reaches 1 and 3, East Jefferson Parish, Louisiana
- Jefferson Parish – Maplewood Drive and Pailet Street, Drainage Improvements, Jefferson Parish, Louisiana
- Southeast Louisiana Flood Protection Authority - East – East Jefferson Levee District, Gabrielle Subdivision Runoff Control Piping Near the Duncan Canal Pump Station, Kenner, Louisiana
  Magnolia Community Services, Inc. – Test Pile Program, New School, 748 Jefferson Heights Avenue, Jefferson Parish, Louisiana
- U.S. Coast Guard – Concrete Testing Services, Grand Isle Station Repair Boathouse and Waterfront, 453 Admiral Craik Drive, Grand Isle, Louisiana

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.
PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)
• Jefferson Parish – Concrete Testing for Pump Station, Transcontinental Drive and West Metairie Road, Metairie, Louisiana • Jefferson Parish – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana

Jefferson Parish
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

David J. Indest, P.E. / Special Projects Manager

Project Assignment:

Professional Engineer / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

21

Education: Degree(s)/Year/Specialization:

Master of Science / 2010 / Civil Engineering
Bachelor of Science / 2004 / Civil Engineering

Active Registration: Year First Registered/Discipline:

Louisiana: 2009 / Civil Engineering
Mississippi: 2012 / Engineering

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

Member: American Concrete Association, Louisiana Chapter, Board of Directors
Member: American Society of Civil Engineers
Member: American Council of Engineering Companies
Member: Pile Driving Contractors Association
Transportation Worker Identification Credential (TWIC)

Professional Experience

Mr. Indest began his career at Eustis Engineering as a technician working both in our concrete laboratory and the field for approximately three years. In the concrete laboratory, he was responsible for the collection and compression testing of all concrete and grout specimens in accordance with applicable ASTM and ACI standards. In the field, Mr. Indest performed a variety of inspection duties including concrete inspection, concrete coring, pile logging, pile load tests, vibration and acoustical monitoring, and soil cement testing. During this time frame, Mr. Indest worked on such projects as the Rehabilitation of Runway 1-19 and Taxiway Sierra at Louis Armstrong New Orleans International Airport in Kenner; the Business Administration Building at the University of New Orleans in New Orleans; Southeast Louisiana Urban Flood Control Project, Hollygrove Area Drainage Improvements for the U.S. Army Corps of Engineers in New Orleans; and Noise/Background Monitoring in the Neighborhood Adjacent to the Existing Inner Harbor Navigation Canal Lock, also for the Corps of Engineers, in New Orleans.

From 2003 to 2004, Mr. Indest worked as an engineering technician with the engineering department. His duties included the performance of various geotechnical engineering analyses and preparation of draft letters and reports by project engineers and project managers. Analyses performed by Mr. Indest during this time frame included allowable soil bearing values, allowable load capacities for various types of piles, settlement analyses, and pavement designs.

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

David J. Indest, P.E. / Special Projects Manager

Beginning in 2004, Mr. Indest became an associate engineer/engineering intern with the firm, followed by a project engineer and branch manager and now serves the firm as a project manager and special projects manager. His duties have continued to expand and now to include coordination of field personnel, layout of boring and cone penetrometer locations, and performing Louisiana/Mississippi/Alabama One Calls. In addition to the engineering analyses previously performed, Mr. Indest is now familiar with lateral pile load analyses; anchored and cantilever sheetpile wall analyses using the U.S. Army Corps of Engineers' CWALSHT program; effects of drag loads on settlement; and slope stability analyses using the Method of Planes. His field engineering capabilities have also expanded and include the performance and processing of cone penetrometer tests/data; dynamic pile testing; obtaining and plotting inclinometer data; and obtaining and plotting vibrating wire piezometer data. Regarding our testing services, Mr. Indest reviews concrete submittals, test pile programs, vibration monitoring and other reports associated with construction activities. He also reviews plans and specifications to develop testing scopes and fee estimates.

From 2018 through 2020 Mr. Indest served on the Board for the Louisiana Chapter of the American Concrete Institute. He chaired the recreation committee where his duties were to organize an annual golf tournament in the spring and annual sporting clay tournament in the fall. The board gathered monthly to provide committee reports and discuss any new or old business.

Mr. Indest worked on the following projects contained within this submittal:

- East Jefferson Levee District – Foreshore Repair Pilot Project, Reaches 1 and 3, East Jefferson Parish, Louisiana
- Magnolia Community Services, Inc. – Test Pile Program, New School, 748 Jefferson Heights Avenue, Jefferson Parish, Louisiana

Jefferson Parish
State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gwendolyn P. Sanders, P.E. / President

Project Assignment:

Principal / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

29

Education: Degree(s)/Year/Specialization:

Master of Science / 1992 / Civil Engineering
Bachelor of Science / 1990 / Civil Engineering

Active Registration: Year First Registered/Discipline:

Louisiana: 1997 / Civil Engineering
Mississippi: 2003 / Engineering
Texas: 2020 / Civil Engineering

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

Member: American Society of Civil Engineers: Vice Chairman of the Geo-Institute – Louisiana Chapter and Associate Member of the ASCE Design of Foundations for Buildings and Other Structures Committee
Member: Geoprofessional Business Association
Member: Jefferson Chamber of Commerce
Member: Louisiana Engineering Society
Member: Pile Driving Contractors Association
Member: Society of American Military Engineers
Member: Tau Beta Pi, Louisiana Epsilon (National Engineering Society); Alumni Advisor to the University of New Orleans Student Chapter; and Member of Greater New Orleans Alumni Chapter
Member: University of New Orleans: Department of Civil and Environmental Engineering Advisory Board
Honoree: 2021 Class of New Orleans CityBusiness "Women of the Year"
Honoree: 2017 Class of New Orleans CityBusiness "Women of the Year"
Honoree: University of New Orleans 25 – Class of 2020 on Behalf of Eustis Engineering L.L.C.
Transportation Worker Identification Credential (TWIC)

Professional Experience

Mrs. Sanders began her professional career with Eustis Engineering in 1993. Over the past 29 years, she has worked her way up through the ranks of the engineering department including Associate Engineer, Project Engineer, Project Manager, and Engineering Manager. She has been on Eustis Engineering's Board of Directors since 1997. In 2020, Mrs. Sanders became Eustis Engineering's first woman president after previously serving as a vice president and executive vice president. As President, she is responsible for day-to-day business operations including quality, safety, marketing, and long-term strategic growth. She also still actively participates in the quality review processes for design and testing services.

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gwendolyn P. Sanders, P.E. / President

Considering her experience with Eustis Engineering, a leading Gulf Coast geotechnical firm, Mrs. Sanders has extensive experience in soft soils and working on projects in coastal Louisiana. She has been directly and indirectly involved in numerous projects throughout the Gulf Coast region, particularly in Jefferson Parish and the Greater New Orleans area. Mrs. Sanders has been involved in and managed every aspect of a geotechnical engineering project, namely developing appropriate scopes of work for projects, planning and coordinating the field investigation, assigning laboratory testing, performing geotechnical engineering analyses, preparing detailed reports with engineering analyses and recommendations, reviewing reports prepared by other professionals, and consulting with clients. Much of her work experience consists of identifying soil properties, developing criteria for the design of foundations, and determining an appropriate foundation to support the structure under consideration. She has also been involved in construction phase services including submittal review, construction monitoring and inspection, vibration monitoring, and report review.

In 2017, Mrs. Sanders served as Program Advisor for the Deep Foundations Institute's 42nd annual conference. She has twice been named one of the 50 Women of the Year by New Orleans CityBusiness, first in 2017 and again in 2021. She is currently serving as an associate member of the ASCE Standards Committee for the Design of Foundations. She has a keen eye for detail and is a stickler for quality. Her work ethic, combined with her communication skills, translate to Mrs. Sanders' ability to deliver successful geotechnical engineering projects to her clients.

Over the years, Mrs. Sanders has been involved with more than 2,800 projects in some capacity, including the following contained within this submittal:

- State of Louisiana Department of Transportation and Development – Ames Boulevard between the West Bank Expressway and Happy Street, Jefferson Parish, Louisiana
- Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veteran's Memorial Boulevard, Metairie, Louisiana
- Southeast Louisiana Flood Protection Authority – East – East Jefferson Levee District – Gabrielle Subdivision Runoff Control Piping Near the Duncan Canal Pump Station, Kenner, Louisiana

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ryan A. Rodrigue / Laboratory Manager

Project Assignment:

Laboratory Manager / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

20

Education: Degree(s)/Year/Specialization:

High School Diploma / 1998 / General Studies

Active Registration: Year First Registered/Discipline:

N/A

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

American Concrete Institute (ACI)
- Concrete Strength Testing Technician
- Concrete Laboratory Testing Technician, Level 1
- Aggregate Testing Technician, Level 1
- Aggregate Base Testing Technician

National Institute for Certification in Engineering Technologies (NICET), Certification No. 111500:
- Level II: Construction Materials Testing, Soils
- Level IV: Geotechnical Engineering Technology

Professional Experience

After working in our soils' laboratory for approximately 11 years, Mr. Rodrigue was promoted to the position of Assistant Laboratory Manager, and he became Laboratory Manager in 2018. In this role, Mr. Rodrigue ensures all samples coming into our laboratory are processed the moment they are received. He coordinates and organizes multiple ongoing projects to ensure the project and the client's deadlines are met. He also oversees the development and training of laboratory technicians.

To accomplish the above tasks, Mr. Rodrigue assesses, oversees, and coordinates all current and upcoming workloads. He directs and provides support to the laboratory staff to ensure all tasks are completed in an efficient manner without compromising quality. He also ensures the quality of the finished product. He works with both the Engineering and Construction Materials Testing departments to deliver the final product to the client within the required timeframes. This includes checking and reporting laboratory data for these departments.

Mr. Rodrigue is responsible for training and developing the laboratory staff's skills to meet the industrial demands and standards required by ASTM, AASHTO, the U.S. Army Corps of Engineers, the Louisiana Department of Transportation and Development, and other governing agencies who regulate quality control and assurance guidelines. As part of his duties, Mr. Rodrigue must interpret, implement, and ensure guidelines are met daily.

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ryan A. Rodrigue / Laboratory Manager

In addition to the above, Mr. Rodrigue implements and adheres to our corporation's quality system program. He controls expenditures within the limits of the laboratory budget. He identifies staffing requirements and coordinates that staffing with upper management and human resources. He assists with the selection of new equipment. He also reviews and approves employee and subcontractor timesheets.

Some of Mr. Rodrigue's experience relative to this submittal includes the following:

- Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana
- Jefferson Parish – Submerged Roads, Council District No. 3, Jefferson Parish, Louisiana
- Jefferson Parish – Maplewood Drive and Pailet Street, Drainage Improvements, Jefferson Parish, Louisiana
- U.S. Coast Guard – Concrete Testing Services, Grand Isle Station Repair Boathouse and Waterfront, 453 Admiral Craik Drive, Grand Isle, Louisiana
- Jefferson Parish – Concrete Testing for Pump Station, Transcontinental Drive and West Metairie Road, Metairie, Louisiana
- Jefferson Parish – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana

Testing Skills

- Atterberg limits determinations
- CBR of laboratory-compacted soil
- Column settling test
- Compaction test, standard and modified
- Consolidated undrained triaxial test
- Consolidated undrained triaxial test with pore pressure measurements
- Consolidation test
- Direct shear test
- Direct simple shear
- Direct simple shear (cyclic)
- Expansion index of soils
- Hydrometer
- Miniature vane shear test
- Moisture content of soil and rock
- One-dimensional swell
- Organic content
- Percent finer than No. 200 sieve
- Permeability, flexible and rigid wall
- pH of soils
- Pocket penetrometer
- Relative density
- Soil resistivity
- Specific gravity of soil, sand, and rock
- Torvane
- Turbidity
- Unconfined compression shear
- Unconsolidated undrained triaxial compression shear
- Unit weight
- Visual classification of soils
- Self-weight consolidation
- Lime stabilization
- Soil cement

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Tim A. Percle Sr. / Senior CMT Technician

Project Assignment:

Senior CMT Technician / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

38

Education: Degree(s)/Year/Specialization:

High School Diploma / 1977 / General Studies

Active Registration: Year First Registered/Discipline:

N/A

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

Alliance Safety Council:
- 40-hour HAZWOPER Training

American Concrete Institute:
- Concrete Field Testing Technician, Level I
- Concrete Strength Testing Technician
- Concrete Construction Special Inspector

American Society of Certified Engineering Technicians
Gulf Coast Safety Council
International Code Council Certification No. 8361707:
- Soils Special Inspector
- Structural Masonry Special Inspector

National Institute for Certification in Engineering Technologies (NICET), Certification No. 93937:
- Level II: Construction Materials Testing / Asphalt
- Level III: Construction Materials Testing / Soil
- Level IV: Construction Materials Testing / Concrete
- Level III: Geotechnical Engineering Technology / Construction
- Level III: Geotechnical Engineering Technology / Exploration
- Level III: Geotechnical Engineering Technology / Generalist
- Level III: Geotechnical Engineering Technology / Laboratory
- Level III: Transportation Engineering Technology / Highway Materials

HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges
American Society of Certified Engineering Technicians
Greater New Orleans Industrial Education Council
Transportation Worker Identification Credential (TWIC)

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Tim A. Percle Sr. / Senior CMT Technician

Professional Experience

His particular capabilities in materials testing include the following.

- Density tests including nuclear, sand cone, balloon, and drive cylinder methods
- Asphalt field inspection
- Concrete strength testing
- Drilled shaft inspection
- Fireproofing inspection
- Observation of wick drain installations
- Pile logging
- Rebar inspection
- Schmidt impact hammer testing
- Site inspection
- Vibration and acoustical monitoring
- Asphalt and concrete coring
- Concrete inspection both at the plant and in the field
- Augercast pile inspection
- Crack monitor monitoring
- Field laboratory setup and usage
- Masonry inspection
- Pile load tests
- Post tension inspection
- Prestress/precast inspection
- Shotcrete inspection
- Visual steel inspection

Mr. Percle has undergone extensive training and is now proficient in the performance of many laboratory tests as well.

- Atterberg limit determinations
- Consolidation
- Expansion index of soils
- Miniature vane shear
- Organic content
- pH of soils
- Shrinkage limits
- Unconfined compression shear
- Unit weight
- CBR of laboratory-compacted soil
- Compaction testing, both standard and modification
- Grain size analyses, sieve and hydrometer
- Moisture content determination
- Pocket penetrometer
- Relative density determination
- Torvane
- Unconsolidated undrained triaxial compression shear
- Visual classification

Other soil inspection methods include CBR of laboratory compacted soil, lime stabilization, and soil-cement stabilization.

Mr. Percle has served as an interim Quality Control Manager and is an integral part of the training of entry-level technicians. Mr. Percle has worked on numerous Jefferson Parish projects, including the following contained within this submittal:

- Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veteran's Memorial Boulevard, Metairie, Louisiana
- Jefferson Parish – Submerged Roads, Council District No. 3, Jefferson Parish, Louisiana
- East Jefferson Levee District – Foreshore Repair Pilot Project, Reaches 1 and 3, East Jefferson Parish, Louisiana
- Jefferson Parish – Maplewood Drive and Pailet Street, Drainage Improvements, Jefferson Parish, Louisiana
- Magnolia Community Services, Inc. – Test Pile Program, New School, 748 Jefferson Heights Avenue, Jefferson Parish, Louisiana
- Jefferson Parish – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Ortolano / Senior CMT Technician

Project Assignment:

Senior CMT Technician / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

9

Education: Degree(s)/Year/Specialization:

High School Equivalency / 2007 / General Education

Active Registration: Year First Registered/Discipline:

N/A

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

Alliance Safety Council
American Concrete Institute:
Concrete Field Testing Technician, Grade I
American Traffic Safety Service Association: Traffic Control Supervisor
Gulf Coast Safety Council
HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges
National Institute for Certification in Engineering Technologies (NICET) Certification No. 145364:
Level II: Construction Materials Testing, Asphalt
Level II: Construction Materials Testing, Soils
Level II: Construction Materials Testing, Concrete
Transportation Worker Identification Credential (TWIC)

After working with other construction materials firms in the New Orleans area for over eight years, Mr. Ortolano joined Eustis Engineering's staff in 2013. Since that time, he has developed the expertise to provide a wide variety of CMT inspection services including the following:

- Acoustical and vibration monitoring
- Asphalt inspection in the field
- Augercast pile inspection
- Drilled shaft inspection
- Helical pile inspection
- Precast/prestressed concrete inspection
- Rebar inspection
- Thermal Integrity Profiler (TIP) testing
- Concrete inspection at the plant and in the field
- Asphalt and concrete coring operations
- In-place density tests, both nuclear and sand cone methods
- Fireproofing inspection
- Pile logging and pile load tests
- Proofrolling inspection
- Site inspection

Mr. Ortolano has become an asset to Eustis Engineering's staff developing additional skills beyond those required as part of his CMT duties. Those skills include Amoozemeter infiltration tests, dynamic cone penetrometer tests, and soil sample collection and identification.

Jefferson Parish State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Chad M. Ortolano / Senior CMT Technician
Projects Mr. Ortolano has worked on in relation to this submittal include: • Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana • East Jefferson Levee District – Foreshore Repair Pilot Project, Reaches 1 and 3, East Jefferson Parish, Louisiana • Jefferson Parish – Maplewood Drive and Pailet Street, Drainage Improvements, Jefferson Parish, Louisiana • Jefferson Parish – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana

Jefferson Parish
State of Louisiana

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)

Project Assignment:

Operations Manager / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

28

Education: Degree(s)/Year/Specialization:

Associate of Applied Sciences / 1998 / Safety

Active Registration: Year First Registered/Discipline:

Louisiana: 2013 / Water Well Contractor's License
Mississippi: 2011 / Geotechnical Driller License

Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

American Society of Certified Engineering Technicians
Confined Space Entry Certification
Greater New Orleans Industrial Education Council Safety Training
Medic First Aid and CPR Course 2015
HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges
International Code Council: Soils Special Inspector
National Institute for Certification in Engineering Technologies (NICET) Certification No. 95800:

- Level I: Construction Materials Testing, Asphalt
- Level II: Construction Materials Testing, Concrete
- Level IV: Construction Materials Testing, Soils
- Level II: Geotechnical Engineering Technology, Construction
- Level III: Geotechnical Engineering Technology, Generalist
- Level IV: Geotechnical Engineering Technology, Exploration
- Level IV: Geotechnical Engineering Technology, Laboratory
- Level III: Transportation Engineering Technology, Highway Materials

10-Hour OSHA Training
Transportation Workers Identification Card (TWIC)

Professional Experience

After joining Eustis Engineering in 1994, Mr. Rome has worked in several departments throughout our firm. He began as a laboratory technician, performing simple testing such as grain size analyses, Atterberg liquid and plastic limits, and unconfined compression shear. Mr. Rome has become involved in more complex testing procedures such as permeability and consolidation tests. His capabilities have expanded to include lime stabilization studies, California Bearing Ratio tests, hysteresis, direct shear tests, swelling pressure and percent swell tests, consolidated undrained triaxial shear tests, relative density tests, and compaction tests.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)

Mr. Rome is thoroughly familiar with the performance of the following types of testing.

- Atterberg limits
- CBR of laboratory compacted soils
- Consolidated drained triaxial shear tests
- Consolidated undrained triaxial shear tests
- Consolidation tests
- Direct shear
- Direct simple shear
- Flexible wall permeability test
- Hydrometer
- Miniature vane shear
- Moisture content of soil and rock
- Organic content
- Particle size analysis of soils and aggregates
- Percent finer than No. 200 sieve
- Pocket penetrometer
- Relative density tests
- Settlement column testing of dredged materials
- Sieve analyses
- Soil constants
- Specific gravity of soils
- Standard and modified compaction
- Swell pressure tests
- Torvane shear tests
- Unconfined compressive strength of soil
- Unconsolidated undrained triaxial shear tests
- Unified Soil Classification System
- Unit weight
- Visual classification of soils
- Moisture density relationships of soil-cement mixtures
- Molded sand triaxial test using Mississippi Department of Transportation specifications
- U.S. Army Corps of Engineers, New Orleans District Classification System

In early 1998, Mr. Rome joined the drilling department as a soil technician, while assisting the drilling crew as a wrenchman. In November 1998, Mr. Rome became a driller for Eustis Engineering. In this capacity, he performed sampling operations using 3-in. diameter Shelby tubes and 5-in. diameter Corps of Engineers' fixed piston samplers. He is also quite familiar with splitspoon, pitcher, Osterberg, Denison, and hollow stem auger sampling operations. He is competent in the installation of piezometers, monitoring wells, inclinometers, and pore pressure transducers. Mr. Rome has drilled to depths in excess of 300 feet utilizing 5-in. fixed piston samplers and in excess of 400 feet for 3-in. diameter Shelby tube sampling. Mr. Rome has drilled from various types of equipment including pontoons, cargo buggies, shallow draft elevating boats, barges, and pull boats using CME, Diedrich, and Failing drill rigs. Mr. Rome has also served as a Quality Assurance/Quality Control inspector for drilling operations for FFEB JV. This included ensuring as many as 22 drill crews were performing sampling operations in strict compliance with USACE specifications.

In the early 2000s, Mr. Rome attended the University of Missouri at Rolla for Advanced Soil Mechanics training. In 2005, he began serving as Operations Manager overseeing the laboratory department's daily objectives, reviewing calculations, and developing new skills in laboratory personnel, as well as other duties. In the drilling department, he oversees up to five drilling crews which involves ordering parts, looking at prospective sites, making crew schedules, lining up subcontract equipment, and ensuring the highest quality samples are obtained by drill crews and subcontractors. He also serves as a driller or soil technician when his expertise is required or to train new employees.

In 2013, Mr. Rome added the CMT department under his operational duties in addition to his operational duties within the lab and drilling departments. Mr. Rome works closely with the operations supervisor for CMT, overseeing the department's daily objectives, reviewing reports, reviewing invoices, addressing staffing needs, as well as other duties. He has worked on the following projects within this submittal:

- Jefferson Parish – Maplewood Drive and Pailet Street, Drainage Improvements, Jefferson Parish, Louisiana
- Magnolia Community Services, Inc. - Test Pile Program, New School, 748 Jefferson Heights Avenue, Jefferson Parish, Louisiana

Jefferson Parish State of Louisiana

<table>
<tr><th colspan="3">PROJECT NO. 01</th></tr>
<tr><th>Project Name, Location, and Owner's Contact Information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>State of Louisiana
Department of Transportation
and Development
Ames Boulevard between
the West Bank Expressway and Happy Street
Jefferson Parish, Louisiana
Eustis Engineering Project No. 24631

Contact Information:
State of Louisiana Through
Design Engineering, Inc.
Suite 205
3330 West Esplanade Avenue
Metairie, Louisiana 70002
Jeff Monfrey @ 504-836-2155</td><td colspan="2">This project involved renovations and upgrades to a section of the roadway pavement along Ames Boulevard between the West Bank Expressway and Happy Street in Jefferson Parish.

Eustis Engineering was brought in to provide construction materials testing and inspection services during the laying of asphalt and concrete for this work; specifically asphalt base course, asphalt binder course, asphalt wearing course, asphalt incidental mix, and Portland cement concrete types B and M.

Eustis Engineering's specific duties included molding concrete cylinders, testing asphalt courses, performing inspections, and generally providing quality control oversight to ensure materials and processes conform to manufacturer's specifications, the Job Mix Formula (JMF), and the LaDOTD's criteria.

Our field inspectors logged over 50 hours on site for these services. Daily reports were reviewed for quality control by our engineering staff and issued through our online client portal in MetaField.</td></tr>
<tr><th rowspan="2">Completion Date
(Actual or Estimated)</th><th colspan="2">Estimated Cost:</th></tr>
<tr><th>Entire Project:</th><th>Work for Which Firm Was Responsible:</th></tr>
<tr><td>08/2021 (A)</td><td>Unknown</td><td>$3,500</td></tr>
</table>

Jefferson Parish State of Louisiana

PROJECT NO. 02		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Ochsner Health System **New Medical Office Building and Ambulatory Surgery Center** **4436 Veterans Memorial Boulevard** **Metairie, Louisiana** **Eustis Engineering Project Nos. 24567 and 24567.01** **Contact Information:** Ochsner Health Systems Through Grace Hebert Curtis Architects, APAC 650 Poydras Street Suite 1110 New Orleans, Louisiana 70130 Joe Crowley @ 504-588-2161	Ochsner Health Systems' proposed new medical office building and ambulatory surgery was a three-story structure of approximately 190,000 square feet. Existing structures were demolished before initiating the new construction, and Eustis Engineering provided vibration monitoring services during the demolition. We also provided an in-house Certified Welding Inspector to visit the fabrication shop to confirm welding processes were in compliance with AWS D1.1-2020 and ASME and the provided project documents. For the current construction phase of the project, we are providing a wide array of construction materials testing services. This includes earthwork sampling, testing, and inspection, including inplace nuclear density testing as well as laboratory testing of samples comprising compaction of sand, wash on the No. 200 sieve, organic soils tests, and Atterberg liquid and plastic limits determinations. We visually inspected treated timber piling of various lengths to ensure they conform to project specifications in addition to measuring for treatment by the assay method. We also performed pile logging as well as associated vibration monitoring during these activities. We performed a review of the concrete design and our ACI certified technicians are performing concrete inspection, sampling, and testing. This involves recording each mix design used at the project site as well as the amount of water or additives added to the mixes, performing slump tests, determining the air content for each sample, sampling the concrete at intervals stated in the plans, and performing compression testing on collected specimens at intervals of 7 and 28 days. Additional construction materials testing services Eustis Engineering is providing for this project include inspection and relative humidity testing of flooring; compressive strength testing of grout; inspection and density testing of sprayed fireproofing; and finally, special inspection services of welding, high strength bolts, and structural steel erections.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
04/2022 (E)	Unknown	$54,100

PROJECT NO. 03		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Jefferson Parish **Submerged Roads** **Council District No. 3** **Jefferson Parish, Louisiana** **Eustis Engineering Project No. 22033** **Contact Information:** Jefferson Parish Through Design Engineering, Inc. Suite 205 3330 West Esplanade Avenue Metairie, Louisiana 70002 Wesley Mills @ 504-836-2155	The South Louisiana Submerged Roads Program was a comprehensive effort to repair and resurface roads damaged as a result of Hurricanes Katrina and Rita. The program began in July 2007 at the recommendation of the Regional Planning Commission and the Louisiana Department of Transportation and Development to the Federal Highway Administration. Eustis Engineering was asked to provide the construction materials testing services for previously submerged roads in Council District No. 3 of Jefferson Parish. Our services included: • soil mechanics laboratory tests on various fills being used as the base course for roadway repair work; • in-place density tests on these fills for street panels; • review of concrete mix designs for the project; • inspection of approximately 4,000 cubic yards of concrete used for street panels, pavements, curbs, point repairs, and catch basins; • compressive strength testing of concrete cylinders made during concrete placement; and • vibration monitoring during construction.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
09/2013 (A)	Unknown	$60,700

Jefferson
State of Louisiana

PROJECT NO. 04		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
South Louisiana Flood Protection Authority - East East Jefferson Levee District Foreshore Repair Pilot Project Reaches 1 and 3 East Jefferson Parish, Louisiana Eustis Engineering Project No. 24340 **Contact Information:** South Louisiana Flood Protection Authority - East 6521 Spanish Fort Boulevard New Orleans, Louisiana 70126 Donald Jerolleman Jr, P.E. @ 504-355-4100	Eustis Engineering was selected to provide the construction materials testing and inspection services for Reaches 1 and 3 of the East Jefferson Levee District's Foreshore Repair Pilot Project. These projects included installing different erosion control materials to evaluate the effectiveness of various erosion control mitigation schemes. A qualified technician (HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear gauges) was provided by Eustis Engineering. This technician observed proofrolling operations, obtained representative samples of materials intended for use on the project, performed in place nuclear density tests on the same materials throughout the day, and determined if the materials in the field were properly compacted and in compliance with the project plans and specifications. Laboratory testing on collected samples consisted of standard Proctor compaction tests of clay fill, pH of soils, grain size sieve analysis, Atterberg liquid and plastic limits determinations, and organic content of the sampled fill materials.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
05/2020 (A)	Unknown	$5,200

Jefferson Parish State of Louisiana

PROJECT NO. 05		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Jefferson Parish **Maplewood Drive and Pailet Street** **Drainage Improvements** **Jefferson Parish, Louisiana** **Eustis Engineering Project No. 22942** **Contact Information:** Jefferson Parish Through Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans, Louisiana 70119 Henry M. Picard, III, P.E. @ 504-486-5901	After completing the geotechnical exploration for the project, Eustis Engineering was asked to provide construction materials testing services associated with the Maplewood Drive and Pailet Street drainage improvements project in Harvey, Louisiana. The project's general scope included the installation of subsurface drainage and street resurfacing along Maplewood Drive and the surrounding area. Our services included: • the performance of soil mechanics laboratory tests on various materials to be used for bedding, backfill, and roadway base materials to confirm they comply with project specifications; • in-place density tests on these same materials to determine their compaction complied with the project specifications; • inspection of the placement of concrete for slope paving, junction boxes, roadway paving, and various foundations; • more than 80 sets of concrete cylinders were subjected to compressive strength testing at 7 days and 28 days; • the inspection of more than 1,300 tons of asphalt both at the plant and in the field along with asphalt coring after placement; and • vibration monitoring services during construction. Our technicians recorded more than 8,200 hours for the project. Our engineers reviewed daily reports for compliance with our quality control manual and program.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
11/2017 (A)	Unknown	$363,600

PROJECT NO. 06		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Southeast Louisiana Flood Protection Authority - East East Jefferson Levee District Gabrielle Subdivision Runoff Control Piping Near the Duncan Canal Pump Station Kenner, Louisiana Eustis Engineering Project Nos. 22537, 23474, 24245 **Contact Information:** Southeast Louisiana Flood Protection Authority – East Suite 225 6001 Stars and Stripes Boulevard New Orleans, Louisiana 70126 Chris Humphreys @ 504-262-8922	This project began with proposed pipeline rerouting at Pump Station No. 4, near Duncan Canal Pump Station, in Kenner, Louisiana. Eustis Engineering used existing geotechnical data obtained from previous projects at the site to perform global stability analyses to evaluate the existing hurricane protection levee and floodwall during and after the construction of the proposed pipeline. Slope stability analyses for the proposed trench/excavation for the installation of the pipe followed the criteria provided in the U.S. Army Corps of Engineers (USACE) Hurricane and Storm Damage Risk Reduction System Design Guidelines and were performed using Spencer's Method of Slices coded within SLOPE/W. The slope stability analyses were performed for the T-wall and proposed protected side excavation for pipeline installation. We also computed Lane's Weighted Creep Ratio to evaluate piping potential into the excavation as the result of seepage during a high-water event. Using data obtained from these calculations, we provided construction recommendations for the contractor's use on the project. Fleming Construction Company, L.L.C., was contracted to install a 40-in. PVC drainage pipe in the proposed excavation. They provided construction drawings delineating the configuration of a Temporary Retaining Structure (TRS). In order to ensure the contractor's TRS design met the requirements of the construction permit, including review by the USACE, Eustis Engineering was retained to evaluate these drawings and provide comments. Subsequently, we provided clarification, revised calculations to accommodate plan changes, and responded to further queries and comments as needed. When this review process was completed and construction commenced, Eustis Engineering provided additional geotechnical services on this project, such as sampling earthwork and subjecting the samples to laboratory testing including compaction, Atterberg liquid and plastic limits testing, and the percent passing the No. 200 sieve. We also evaluated the results of monitoring operations performed by the contractor to confirm the TRS was behaving as predicted and within permit requirements.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
05/2020 (A)	Unknown	$32,200

PROJECT NO. 07	
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**
Magnolia Community Services, Inc. **Subsurface Exploration, Test Pile Program and Construction Materials Testing** **for New School** **748 Jefferson Heights Avenue** **Jefferson Parish, Louisiana** **Eustis Engineering Project Nos.** **24055, 24055.01, 24055.02** **Contact Information:** Magnolia Community Services, Inc. 100 Central Avenue Jefferson, Louisiana 70121 Jennifer Hebert @ 504-733-2874	Magnolia School planned the construction of three lightly-loaded, one-story buildings, totaling approximately 14,000 square feet with proposed slab-on-grade foundations. They also planned to create two new parking lots. Eustis Engineering drilled three undisturbed sample type soil test borings to a depth of 40 feet each and two auger borings to depths of 8 feet. Soil mechanics laboratory tests performed on samples from the borings included natural water content, unit weight, unconfined compression shear, unconsolidated undrained triaxial compression shear, and Atterberg liquid and plastic limits determinations. Eustis Engineering provided a seismic Site Classification for the site, fill material and compaction recommendations, fill settlement estimates, and recommendations of site preparation and drainage. For shallow foundations, we calculated settlement estimates and allowable soil bearing values. These were used to inform our recommendations for foundation materials and footing depths. For deep foundations, we recommended timber piles and provided associated settlement estimates, pile load capacities, and hammer type and setting parameters. With regard to the parking lots, Eustis Engineering provided component and thickness recommendations for both rigid and flexible pavements in accordance with the AASHTO Guide for Design of Pavement Structures. Based on subsequent changes to proposed fill heights for the project, we later performed one cone penetration test to a depth of 80 feet in order to identify the Holocene/Pleistocene interface and provided a supplemental engineering report analyzing allowable load capacities for deeper pile embedments, estimates of lateral earthen coefficients for retaining walls, ground surface settlement due to fill placement, and evaluation of other potential impacts to shallow and deep foundations due to filling operations. Eustis Engineering later provided a test pile program for this project. This included pile inspection at the point of treatment, logging and installation reporting of two probe piles and one reaction pile, the performance of one static compression pile load test, and vibration monitoring during installation of probe and reaction piles. One of the test piles was also subjected to static load testing.

PROJECT NO. 07		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
	Based on the results of the pile testing, we furnished the client with a report providing driving recommendations as well as a detailed explanation of our methods and results. Construction materials testing services provided during construction comprised compaction; laboratory testing; sampling of earthwork, including nuclear inplace density testing as well as relative density and grain size curve reports. We also performed field and laboratory testing, sampling of concrete, timber pile inspection, pile installation observation and logging, and vibration monitoring.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
11/2020 (A)	Unknown	$18,600

Jefferson Parish
State of Louisiana

PROJECT NO. 08	
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**
U.S. Coast Guard **Concrete Testing Services** **Grand Isle Station** **Repair Boathouse and Waterfront** **453 Admiral Craik Drive** **Grand Isle, Louisiana** **Eustis Engineering Project No. 24227** **Contact Information:** U.S.Coast Guard Through V. Pavkov Contracting Co., Inc. 55 South Guignard Drive Sumter, South Carolina 29150 Lance Pavkov @ 803-775-4119	Eustis Engineering provided field and laboratory testing, and sampling concrete services for the U.S. Coast Guard, Grand Isle Station Boathouse and Waterfront Repair project. The project comprised a concrete boat ramp, fuel pier, three additional piers, a boathouse, floating dock, wharf, and bulkheads. Riprap was also placed along the eastern portion of the site. The construction materials testing services included: • concrete and masonry placement, inspection, and sampling in the field; • cylinders and cubes molded during inspection, cured, and tested in compression. ACI certified technicians were assigned to perform these tasks. Their qualifications include technician training, use of specialized equipment, calibration procedures, and adherence to the quality control plan to maintain compliance with applicable American Society of Testing and Materials standards. During the course of the concrete, mortar, and grout testing services, Eustis Engineering's technicians: • recorded each mix design used while at the project site; • recorded the amount of water or additives added to the concrete, mortar, and/or grout mix; • observed the placement of the material while performing testing; • performed slump tests (either visual or actual) for each truckload witnessed; • determined the air content for each sample tested, if required; • sampled the material at intervals stated in the project plans and specifications; and • performed compression testing on the specimens collected during our testing services (typically at 7 and 28 days).

Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
12/2019 (A)	Unknown	$4,000

Jefferson Parish State of Louisiana

PROJECT NO. 09		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Jefferson Parish **Concrete Testing for Pump Station** **Transcontinental Drive and** **West Metairie Road** **Metairie, Louisiana** **Eustis Engineering Project No. 24164** **Contact Information:** Jefferson Parish Through BLD Services, LLC 2424 Tyler Street Kenner, Louisiana 70062 Brent Albert @ 504-466-1344	This project was performed under Eustis Engineering's contract with Jefferson Parish to provide laboratory services for the inspection of materials and equipment on an as-needed basis. When our services were requested at the pump station at Transcontinental Drive and West Metairie Road, we had someone on site the very next day. As part of our quality control and testing services, Eustis Engineering's ACI certified technicians recorded each mix design used at the project site, recorded the amount of water or additives added to the mixes, performed slump testing for each batch of concrete, determined the air content for each sample, sampled the concrete at intervals stated in the plans, and performed compression testing on collected specimens at intervals of 7 and 28 days. Due to the site's close proximity to our Metairie office, we logged fewer than 25 hours to complete these services. After our quality control review of reports by an engineer, the results were submitted through the MetaField system.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
08/2019 (A)	Unknown	$900

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Jefferson Parish **Cleary Avenue Improvements** **Veterans Boulevard to** **West Esplanade Avenue** **Jefferson Parish, Louisiana** **Eustis Engineering Project No. 24137** **Contact Information:** Jefferson Parish Through Barowka & Bonura Engineers & Consultants, LLC 209 Canal Street Metairie, Louisiana 70005 Jeffrey Bonura, P.E. @ 504-828-0030	Eustis Engineering was selected to provide the construction materials testing services for approximately 2 miles of roadway improvements along the very busy Cleary Avenue in Metairie, Louisiana. Our services on the project included: • vibration monitoring during construction activities; • performance of soil mechanics laboratory tests on sand (for embankments) as well crushed concrete and No. 57 limestone (as bedding material). Tests included gradation analyses, Atterberg limits determinations, organic content, standard Proctor (ASTM D698), and relative density (ASTM D4253, D4254); • more than 100 inplace density tests were performed on these same materials to determine if they had been compacted to the minimum levels required by the project's specifications; • review of concrete mix designs intended for use on the project; • inspection of nearly 4,3000 cubic yards of concrete placed for street panels, curbs and gutters, driveways, and sidewalks; and • compressive testing of more than 600 concrete cylinders made in association with the above inspection. Eustis Engineering's personnel worked nearly 1,500 hours on the project. Quality control of our technician's reports was completed prior to issuing daily inspection reports digitally through the MetaField system.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
03/2021 (A)	Unknown	$69,000

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	**Defendant:**	
1. None at this time.		
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

When Eustis Engineering opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. ***Seventy-six years later,*** our personnel and equipment occupy 40,000+ square feet of space in five locations.

Eustis Engineering is the third oldest, continually operating geotechnical firm in the United States. From a two-man office to approximately 100 individuals, the firm has grown to house accounting, administrative, quality control, safety, drilling, engineering, laboratory, and construction materials testing departments. These departments work together to provide our clients with the quality work desired in a cost-efficient and timely manner.

Eustis Engineering is headquartered in Metairie, Louisiana, in the heart of Jefferson Parish. We also operate branch offices in Lafayette and Baton Rouge, Louisiana; in Gulfport, Mississippi; and in Houston, Texas. Our offices and staff collaborate seamlessly using Microsoft Teams and other virtual platforms.

Eustis Engineering's services encompass many disciplines including the performance of:

- subsurface exploration (drilling of soil borings, cone penetration testing, and Geoprobe®);
- soil mechanics laboratory tests;
- field instrumentation and monitoring;
- laboratory and field testing of California Bearing Ratio (CBR);
- non-destructive testing of piles and shafts including dynamic pile testing, crosshole sonic logging, single-hole sonic logging, low strain pile integrity testing, and thermal integrity profiling;
- geotechnical engineering design; and
- construction quality control and materials testing services.

Eustis Engineering L.L.C. Important Numbers	
Item	**Number**
DUNS	78-481-0959
CAGE Code	4MOP2
Firm License - Louisiana	EF.0003558
Firm License - Mississippi	2078
Firm Registration – Texas	13895

Eustis Engineering has worked on over 28,000 projects since its inception. Most of our geotechnical explorations are supplemented by our wide array of soils mechanics laboratory testing services. We also provide testing for aggregate, asphalt, concrete, and spray fire-resistive material. Nearly one in five of our projects provide these additional kinds of laboratory and construction materials testing services.

ENGINEERING SERVICES

Eustis Engineering has engineering capabilities to fulfill the requirements of nearly any project. Our engineering staff is engaged with the quality control and review of our materials testing services. Their design and construction experience complements our testing services and aids in providing testing that best suits the project needs. We perform reviews of the geotechnical and testing aspects of plans and specifications. Our engineers perform submittal reviews and respond to contractor requests for information (RFI). Our staff also reviews in-house laboratory test results of soils and materials.

Engineering Staffing

Our engineering staff has 15 Master's degrees in Civil Engineering, Engineering, Engineering Management, and Business Administration. Participation in post Bachelor of Science curricula, as well as continuing education and professional registration that emphasizes engineering management and technical issues are very important to Eustis Engineering. Our engineers also regularly present at technical conferences. We encourage and fund our staff for these activities and programs.

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
Professional Engineers (P.E.)			
Benjamin M. Cody	M.S. / Civil Engineering	21	25
Brian A. Deschamp	B.S. / Civil & Environmental Engineering B.A. / Business Administration	10	10
Lars A. Erickson	B.S. / Civil & Environmental Engineering Coastal Engineering Certificate	6	6
James J. Hance	M.S. / Civil Engineering M.B.A. / Business Administration	19	23
Chad L. Held	M.S. / Civil Engineering	31	31
David J. Indest	M.S. / Civil Engineering	21	21
Matthew K. Morales	B.S. / Civil Engineering	13	13
Travis R. Richards	M.S. / Engineering M.S. / Engineering Management Coastal Engineering Certificate	17	24
Gwendolyn P. Sanders	M.S. / Engineering	29	29
Shaun R. Simon	M.S. / Civil Engineering	22	22
Patrick A. Thurmond	M.S. Engineering Management M.S. / Civil Engineering Coastal Engineering Certificate	7	7
Sean G. Walsh	M.S. / Civil Engineering	10	15
James M. Williams	M.S. / Civil Engineering	4	4

Jefferson Parish State of Louisiana

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
Professional Engineers (P.E.)			
Henry C. Worley	B.S. / Civil Engineering	5	6.5
	Coastal Engineering Certificate		
Engineering Interns (E.I.)			
Scot J. Breaux, Jr.	B.S. / Civil and Environmental Engineering	1	2
Patrick T. Duckworth	M.S. / Civil Engineering	2	2
Grant Collongues	B.S. / Civil Engineering	0	0
Tomas K. Morales(1)	B.S. / Civil Engineering	9	9
Engineering Graduates			
Lesley L. Reitmeyer	B.S. / Civil Engineering	13	13
Sean T. Smith	B.S. / Civil Engineering	6	6
Geologists			
Matthew J. Blasini, G.I.T.	B.S. / Geology	3	4
Nathan A. Quick, P.G.	M.S. / Geology	1	6
Total Years of Experience		**250**	**278.5**

(1) Long-term Subcontractor

Cone Penetration Testing Capabilities

Eustis Engineering owns two dedicated track-mounted Cone Penetration Testing (CPT) rigs and operates four other multi-purpose rigs that can perform CPTs. Operators are either specifically trained engineering technicians or engineers who perform field operations utilizing the CPT equipment. Engineers with specialized knowledge and experience operating the rigs evaluate the sounds and produce the CPT logs. Five of our rigs can be placed on a cargo buggy, shallow draft barge, or airboat to access coastal marsh or open water. We have sounded to depths of 180 feet and have the ability to perform dissipation and seismic testing. Field testing is performed according to ASTM D5778 and common industry practices. Eustis Engineering has been performing and using CPT technology since the early 2000s.

A CPT can be accomplished rapidly with four or five being made in the same time frame as a standard geotechnical boring. Therefore, the CPT is typically cost-effective in providing enhanced subsurface exploration and better delineation of subsurface conditions at a project site.

Dynamic Pile Testing Capabilities

Eustis Engineering was the first private consulting firm to own and operate dynamic pile testing equipment in the States of Louisiana and Mississippi. The pile types tested include timber piles; small size pipe piles; square, precast concrete piles and large (60 to 72-in. diameter) spun-cast, prestressed concrete piles; open-end and closed-end steel pipe piles; and steel H-piles.

We often upgrade our data collectors and operate four Pile Driving Analyzers® (PDAs): one PAX unit and three PDA-8G units. These units can be battery operated and use wireless gauge transmitters to eliminate the need for a main cable

to connect directly to the units. We also stock and use underwater gauges to monitor pile driving in marine environments when the pile head descends below the water surface.

To support our four PDA units, Eustis Engineering maintains an extensive inventory of calibrated gauges and accessories. To provide quality assurance and rapid response to issues in the field, all PDAs have wireless communication, enabling our engineers direct oversight of the dynamic pile testing process in real time.

We also use this PDA equipment to maintain the calibrations of our automatic SPT hammers on our drill rigs.

Other Non-Destructive Testing Capabilities

Our engineering staff at Eustis Engineering also performs other non-destructive testing services to verify the structural integrity of drilled shafts, augercast piles, and precast concrete piles. Some of these processes include crosshole/single-hole sonic logging (CSL or SSL), low strain pile integrity testing (PIT), and thermal integrity profiling (TIP). We also perform parallel seismic testing to evaluate existing foundation depths.

INSTRUMENTATION

Eustis Engineering has installed geotechnical instrumentation for decades. Our instrumentation programs have resulted in substantial cost savings to our clients by reducing preload durations, providing refinement of geotechnical design parameters through full scale testing, and verifying the performance of cutting-edge designs. Our services go beyond the construction phase, as long-term monitoring programs enable owners to maximize utilization of their facilities throughout the design life by verifying soil behavior is within acceptable limits.

Eustis Engineering provides the following instrumentation services.

- Vibrating wire devices including piezometers, extensometers, settlement gauges, and strain gauges
- Data loggers to enable periodic collection of data for vibrating wire devices
- Data links for remote web access to loggers in near real time
- Settlement plates
- Conventional slope inclinometers or MEM sensor array inclinometers
- Monitoring services of all instrumentation devices with geotechnical interpretation

Instrumentation is a natural complement to our design services, providing data to verify or modify recommendations based on the observational method. Ongoing monitoring enables us to provide continuing services from project inception to the end of a project's design life.

DRILLING/FIELD EXPLORATION

Eustis Engineering possesses licenses and credentials to perform geotechnical drilling in Louisiana and Mississippi (no license is needed in Texas). With our licenses and credentials, Eustis Engineering drills soil borings and performs sampling operations for our clients' projects in all types of environments including land, marsh, swamp, and marine. Our personnel have the capability and experience to provide these services from trucks, barges, pontoons, and swamp or marsh buggies.

Jefferson Parish State of Louisiana

Field Exploration Personnel

We can provide up to ten (10) drillers and drill rigs capable of obtaining standard 3-in. diameter Shelby tube samples and 5-in. diameter fixed piston samples, sounding CPT, advancing Geoprobe® samplers, and installing geotechnical instrumentation on land, in water, and in marsh environments as indicated in the following table.

Capabilities of Eustis Engineering's Field Exploration Staff	Scott Bombard	Jordon Brightwell	James Cordes	Rene Davidson	Robert Dupuy	Eric Held	James Lubben	George Reitmeyer	Lawrence Rome	Michael Whipkey
Hand Auger Borings	X	X	X	X	X	X	X	X	X	X
General Type (3-in. Diameter Borings)	X	X	X	X	X	X	X		X	X
General Type (3-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X		X	X		X	
Undisturbed Type (5-in. Diameter Borings)	X	X	X	X	X	X	X		X	X
Undisturbed Type (5-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)		X	X	X		X	X		X	
Location Information (Latitude, Longitude)		X	X	X	X	X	X		X	X
Set Permanent Benchmarks		X	X	X		X	X		X	
Install Instrumentation		X	X	X		X	X		X	
Cone Penetration Tests						X		X		
Geoprobe® Sampling	X		X		X	X	X		X	X

Jefferson Parish State of Louisiana

Field Exploration Equipment

Eustis Engineering owns and operates six wet rotary drill rigs, both truck-mounted and skid-mounted. This equipment includes one Diedrich truck-mounted D-50 turbo drill rig (with an automatic SPT hammer); one Failing skid only rig (with an automatic SPT hammer); one truck-mounted CME-55 rig; one track-mounted CME-850X rig with an automatic hammer; one track-mounted CME-850XR rig with an automatic hammer; and one truck-mounted CME-55 rig with a detachable CME-55 skid unit and automatic hammer. We also own two track-mounted cone penetrometer systems capable of providing up to 15 tons of reaction. Our CME track rigs provide low ground pressure and are designed to traverse soft ground surfaces, steep slopes, and lightly wooded areas.

Eustis Engineering also owns four direct push Geoprobe® units, two 3230DTs, the 6620DT and the 540M. Eustis Engineering's 6620DT/3230DT Geoprobe with their 12-in. tracks allow this equipment to be used on pavement as well

as off road and in rugged terrain. The 6620DT and 3230DT rigs also can be placed on specialized equipment. This includes a jack-up barge and a cargo buggy for operations over marsh/water. These units can install shallow monitoring wells and other instrumentation. We also have the capability to perform CPTs using the 3230DT rigs.

Our 540M Geoprobe can fit into confined spaces as narrow as 32 inches. The 540M can also be utilized on an airboat for coastal terrains.

Other Specialized Soil Sampling Equipment

We have hand augers to obtain samples at various depths for use in classification and stratification of soil deposits. This equipment can be used in association with handheld piston samplers to obtain small diameter samples. Finally, we operate a dynamic cone penetrometer (DCPT) to assess the in-situ strength of undisturbed soils and compacted materials in accordance with ASTM D6951.

Drone Capabilities

Eustis Engineering utilizes small Unmanned Aerial Systems (sUAS), more commonly known as "drones" to enhance our services. We use drones to perform site inspections, field reconnaissance, pre/post-construction condition surveys, construction inspections, and other forms of visual monitoring. We currently operate a DJI Mavic Air 2S Drone piloted by a Part 107 Certified Remote Pilot.

LABORATORY SERVICES

Eustis Engineering's laboratories are constantly evolving with the purchase of new equipment on a yearly basis. Our gINT® data management software from Bentley allows for maximum efficiency in production of boring logs and data entry.

Eustis Engineering has also recently acquired OpenGround®, Bentley's Cloud platform, which interfaces with a collection of geotechnical applications. OpenGround provides a comprehensive solution for collecting, reporting, managing, visualizing, analyzing, and accessing data. Its advanced digital workflows combine both subsurface and surface data into one cohesive design. This software will provide Eustis Engineering's team members access to a data source via connected applications or a web portal, increasing collaboration and efficiency. The improved access and reliability will save time and money in the planning, design, analysis, construction, and operation of infrastructure projects.

Eustis Engineering has also acquired KeyLAB® from Bentley. KeyLAB is the leading laboratory management system built specifically for geotechnical and construction materials testing laboratories. It improves our laboratory efficiency at every stage of the geotechnical and construction testing process, including sample and storeroom management, as well as electronic scheduling, testing, and reporting. It integrates with Microsoft Excel® allowing for easily customized worksheets and reports.

Technical testing common to our laboratories includes ASTM, ACI, LaDOTD, AASHTO, FAA, and USACE. Our laboratories hold accreditations from AASHTO, LaDOTD, and the USACE.

Jefferson Parish
State of Louisiana

Laboratory Staffing

Eustis Engineering currently has more than a dozen technicians to perform soil mechanics laboratory testing. These technicians are versed in the latest standards from ASTM, LaDOTD, MDOT, AASHTO, FAA, and the USACE. Many of our technicians have earned certifications with the National Institute for Certification in Engineering Technologies (NICET) in the area of geotechnical engineering technology and in the subfields of construction, exploration, generalist, and laboratory.

Laboratory Quality Control

In our effort to ensure the quality of our laboratory and materials testing, our programs are regularly inspected by outside agencies such as the U.S. Army Corps of Engineers, the AMRL Group of the American Association of State Highway and Transportation Officials, and the CCRL Group of AASHTO. Eustis Engineering is also accredited by the Mississippi Department of Transportation.

Eustis Engineering has three soil mechanics laboratories where our laboratory practices and quality management system meet the requirements of AASHTO R 18 and ASTM E329. These offices are located in Metairie, Baton Rouge, and Gulfport. Individual offices may comply with ASTM quality system specifications including ASTM C1077, ASTM D366, and ASTM D3740. Accreditations in the various areas are shown below.

Metairie	Baton Rouge	Gulfport
Aggregate	Aggregate	Aggregate
Asphalt	Soil	Asphalt
Concrete	Spray Fire-Resistive Material	Concrete
Masonry		Soil
Soil		Spray Fire-Resistive Material

Our laboratory in Houston, Texas, has capabilities in the areas of Aggregate, Concrete, Masonry, and Soil. Applications for CCRL and AMRL accreditation are in progress with the intent of achieving these accreditations later this year.

To show further that quality is paramount to Eustis Engineering, we have two individuals in charge of maintaining quality in our testing. Travis R. Richards, P.E., is the engineer-in-charge, and we also have a Quality Control Manager who oversees the calibration of our equipment. The biggest reward of our quality measures is knowing that our clients are confident that our testing laboratory produces the highest quality results and conforms to national and international standards.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____ **Print Name:** Gwendolyn P. Sanders, P.E.

Title: President **Date:** 1 April 2022

LABORATORY TESTING CAPABILITIES OF EUSTIS ENGINEERING'S PERSONNEL	Chapman, Alexander	Clements, Carl	Daldegan, Connie	Darda, Amanda	Davis, Maya	Day, Victor	Ehrhart, Kortney	Erickson, Lars	Henderson, Brittany	Holleman, Timmy	Hughes, Jessica	Jadrich, Jonathan	Lowery, Sydney	Morales, Tomas	Pagliai, Kim	Percle, Jason	Percle, Tim	Perrin, MaxAnthony	Pracheil, Suzanne	Rodrigue, Ryan	Rome, Lawerence	Ros, Melanie
Office	G	M	M	M	M	H	M	H	M	M	M	M	M	B	G	M	M	M	B	M	M	M
Position	5	6	4	6	7	7	6	1	6	2	6	7	6	5	6	6	7	6	6	3	1	6
Education	AA	SC	HS	SC	SC	HS	HS	BS	HS	HS	SC	BS	SC	BS	AA	HS	HS	SC	HS	SC	AA	SC
Years of Experience	<1	4	36	<1	2	34	14	5	5	30	<1	22	<1	7	38	14	28	<1	8	19	27	<1
NICET Certifications			X													X	X			X	X	
ACI Certifications		X	X			X		X	X	X		X		X	X		X		X	X		
ASTM D2216, ASTM D2488: Water content and visual classification		X	X			X		X	X					X	X	X		X	X	X		
EM 1110-2-1906: Unit weight		X	X						X						X	X			X	X		
Classification of 3-in. diameter undisturbed type soil boring (including extracting, logging, and reporting)		X	X			X		X	X					X	X	X			X	X		
Classification of 5-in. diameter undisturbed type soil boring (including extracting, logging, and reporting)		X	X					X	X							X			X	X		
ASTM D4318: Atterberg liquid limit, one point		X	X	X		X		X	X		X		X	X	X	X		X	X	X		X
ASTM D4318: Atterberg liquid and plastic limits determinations		X	X	X		X		X	X		X		X	X	X	X		X	X	X		X
LaDOTD TR428: Atterberg liquid and plastic limits determinations		X	X	X					X		X		X	X	X	X		X	X	X		X
ASTM D2974: Organic soils test			X			X		X	X		X			X	X	X			X	X		
ASTM D427: Shrinkage limit																						
pH and resistivity																X				X		
ASTM C117: Wash on the No. 200 sieve		X	X			X		X	X		X		X	X	X	X		X	X	X		
ASTM D1140: Wash on the No. 200 sieve		X	X			X		X	X		X		X	X	X	X		X	X	X		
ASTM C136: Sieve analysis		X	X			X		X	X		X		X	X	X	X		X	X	X		
ASTM D6913: Grain size analysis, sieve only		X	X			X		X	X		X		X	X	X	X		X	X	X		
ASTM D7928: Grain size analysis, hydrometer only			X					X	X					X	X	X			X	X		
ASTM D6913 and D7928: Grain size analysis, sieve and hydrometer			X					X	X					X	X	X			X	X		

LABORATORY TESTING CAPABILITIES OF EUSTIS ENGINEERING'S PERSONNEL	Chapman, Alexander	Clements, Carl	Daldegan, Connie	Darda, Amanda	Davis, Maya	Day, Victor	Ehrhart, Kortney	Erickson, Lars	Henderson, Brittany	Holleman, Timmy	Hughes, Jessica	Jadrich, Jonathan	Lowery, Sydney	Morales, Tomas	Pagliai, Kim	Percle, Jason	Percle, Tim	Perrin, MaxAnthony	Pracheil, Suzanne	Rodrigue, Ryan	Rome, Lawerence	Ros, Melanie
ASTM D4718 or AASHTO T224: Standard practice for correction of unit weight and water content for oversized particles (includes grain size and bulk specific gravity)		X	X					X						X	X	X			X	X		
ASTM C127 and C128: Bulk specific gravity		X	X											x	X	X			X	X		
ASTM D854: Specific gravity			X					X	X						X	X			X	X		
ASTM D2166: Unconfined compression shear test		X	X					X	X						X	X				X		
ASTM D2850: One-point unconsolidated undrained triaxial compression shear test		X	X						X						X	X				X		
ASTM D2850: Three-point unconsolidated undrained triaxial compression shear test		X	X						X						X	X				X		
ASTM D3080: One-point consolidated drained direct shear test									X						X					X		
ASTM D3080: Three-point consolidated drained direct shear test									X						X					X		
ASTM D4648: Laboratory miniature vane shear test			X						X						X	X				X		
ASTM D4767: Three-point consolidated undrained triaxial compression shear with pore pressure measurements									X						X					X		
ASTM D6528: Three-point direct simple shear test									X						X					X		
EM 1110-2-1906: One-point consolidated drained direct shear test									X						X					X		
ASTM D5084-90: Permeability test, flexible wall			X						X						X					X		
ASTM D2434, STP746, STP874: Permeability test, rigid wall			X						X						X	X				X		
ASTM D698, ASTM D1557, AASHTO T99, or AASHTO T180: Laboratory compaction of sand		X	X			X		X						X	X	X			X	X		

LABORATORY TESTING CAPABILITIES OF EUSTIS ENGINEERING'S PERSONNEL	Chapman, Alexander	Clements, Carl	Daldegan, Connie	Darda, Amanda	Davis, Maya	Day, Victor	Ehrhart, Kortney	Erickson, Lars	Henderson, Brittany	Holleman, Timmy	Hughes, Jessica	Jadrich, Jonathan	Lowery, Sydney	Morales, Tomas	Pagliai, Kim	Percle, Jason	Percle, Tim	Perrin, MaxAnthony	Pracheil, Suzanne	Rodrigue, Ryan	Rome, Lawerence	Ros, Melanie
ASTM D698, ASTM D1557, AASHTO T99, or AASHTO T180: Laboratory compaction of clay		X	X			X		X						X	X	X			X	X		
ASTM D698, ASTM D1557, AASHTO T99, or AASHTO T180: Laboratory compaction of aggregate (ASTM D4718, AASHTO T224)		X	X			X		X						X	X	X			X	X		
EM 1110-2-1906, Appendix VI: Laboratory compaction of sand or aggregate including grain size analysis with replacement method		X	X												X	X			X	X		
ASTM D558: Compaction test on clay with additives		X	X												X	X				X		
ASTM D558: Compaction test on sand or aggregate with additives including grain size analysis with replacement method		X	X												X	X				X		
ASTM D4253 and D4254: Maximum and minimum index density to calculate relative density		X	X												X	X				X		
LADOTD TR-416: Lime determination series (no strength testing or trial percentages)																X				X		
LADOTD TR-416: Lime determination series with aggregate																X				X		
LADOTD TR-432: Soil Cement Determination Series (includes strength testing and trial percentages)		X														X				X		
LADOTD TR-432: Soil Cement Determination Series w/Aggregate		X														X				X		
Lime and cement determination series		X														X				X		
ASTM D1883: California Bearing Ratio (requires compaction test)		X														X				X		
ASTM D4832: Preparation and testing of controlled low strength material (CLSM) test cylinders						X		X														

LABORATORY TESTING CAPABILITIES OF EUSTIS ENGINEERING'S PERSONNEL	Chapman, Alexander	Clements, Carl	Daldegan, Connie	Darda, Amanda	Davis, Maya	Day, Victor	Ehrhart, Kortney	Erickson, Lars	Henderson, Brittany	Holleman, Timmy	Hughes, Jessica	Jadrich, Jonathan	Lowery, Sydney	Morales, Tomas	Pagliai, Kim	Percle, Jason	Percle, Tim	Perrin, MaxAnthony	Pracheil, Suzanne	Rodrigue, Ryan	Rome, Lawerence	Ros, Melanie
ASTM D4832: Testing only of controlled low strength material (CLSM) test cylinders						X		X								X				X		
Column settling test								X	X											X		
EM 1110-2-5027: Self-weight consolidation test								X	X											X		
Low pressure high strain consolidation																				X		
Thermal resistivity									X							X				X		

POSITION

1. Operations Manager
2. Quality Control Manager
3. Laboratory Manager
4. Assistant Laboratory Manager
5. Engineering/Laboratory Technician
6. Laboratory Technician
7. CMT Laboratory Technician

EDUCATION

MS = Master of Science from Accredited College/University
BA = Bachelor of Art from Accredited College/University
BS = Bachelor of Science from Accredited College/University
AS = Associate of Science from Accredited College/University
SC = Some College
HS = High School Graduate or Equivalent

OFFICE

M = Metairie
B = Baton Rouge
G = Gulfport
H = Houston

Eustis Engineering's laboratory and Construction Materials Testing (CMT) personnel work hand in hand daily. If our CMT personnel are not in the field, they are in our laboratory assisting our fulltime personnel in the performance of various soil mechanics laboratory tests.

William Albert
CMT Technician II
Metairie, Louisiana
22 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician, Level II
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges

Dale Baham
Subcontract CMT Technician I
Metairie, Louisiana
8 Years of CMT Experience

Jeffrey M. Barbato
Subcontract CMT Technician
Metairie, Louisiana
8 Years Laboratory & CMT Experience
Transportation Worker Identification Credential

Melvin Beaty
Subcontract CMT Technician I
Houston, Texas
1 Year of Laboratory & CMT Experience

George Bennett
Subcontract CMT Technician I
Baton Rouge, Louisiana
Less than 1 Year of Laboratory & CMT Experience

Irby Butler
Subcontract CMT Technician I
Metairie, Louisiana
6 Years of CMT Experience
Bryan E. Byrne
Senior CMT Technician
Metairie, Louisiana
21 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
ACI Concrete Construction Special Inspector
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Clayton Byrd
Subcontract CMT Technician I
Metairie, Louisiana
Less Than 1 Year of CMT Experience

Joseph H. Carbo
Welding Inspector
Metairie, Louisiana
38 Years of CMT Experience
AWS Certified Welding Inspector
ANST Magnetic Particle Inspection
ASNT Radiation Safety
ANST Industrial Radiography
ANST Visual Inspection
ANST Radiographic Interpretation
ANST Ultrasonic Testing
ANST Dye Penetrant

Christopher J. Carley
Senior Welding Inspector
Metairie, Louisiana
30 Years of CMT Experience
AWS Certified Welding Educator
AWS Certified Welding Inspector

Carl D. Clements
Laboratory Technician
Metairie, Louisiana
5 Years of Laboratory Experience
ACI Concrete Strength Testing Technician

Bryan M. Connelly
Director of Welding Inspection and Nondestructive Testing
Metairie, Louisiana
19 Years of CMT Experience
ANST Dye Penetrant Testing, Level II
ANST Magnetic Particle Inspector, Level II
AWS Certified Welding Inspector

Darlinda Cook
Subcontract CMT Technician I
Metairie, Louisiana
8 Years of CMT Experience

Tevin J. Crawford
CMT Technician
Metairie, Louisiana
6 Years of Laboratory & CMT Experience
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Connie L. Daldegan
Assistant Laboratory Manager
37 Years of Laboratory Experience
ACI Aggregate Testing Technician
NICET Construction Materials Testing, Asphalt, Level I
NICET Construction Materials Testing, Concrete, Level I
NICET Construction Materials Testing, Soils, Level II
NICET Geotechnical Engineering Technology, Construction, Level II
NICET Geotechnical Engineering Technology, Exploration, Level II
NICET Geotechnical Engineering Technology, Generalist, Level II
NICET Geotechnical Engineering Technology, Laboratory, Level II

Amanda Darda
Laboratory Technician
Metairie, Louisiana
Less than 1 Year of Laboratory Experience

Maya Davis
Laboratory and CMT Technician
Metairie, Louisiana
2 Years of Laboratory & CMT Experience
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges

Victor C. Day
Subcontract Senior CMT Technician
Houston, Texas
34 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Brian A. Deschamp, P.E.
Project Manager
Gulfport, Mississippi
10 Years of Laboratory & CMT Experience
ACI Aggregate Testing Technician, Level I
ACI Concrete Field Testing Technician, Grade I
ACI Concrete Strength Testing Technician

Lars A. Erickson, P.E.
Project Engineer
Houston, Texas
6 Years of Laboratory & CMT Experience
ACI Aggregate Base Testing Technician
ACI Concrete Field Testing Technician, Grade I
ACI Concrete Strength Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
PDCA/Pile Dynamics, Inc: Basic
Transportation Worker Identification Credential

Stephen D. Fabin
CMT Technician
Metairie, Louisiana
8 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges

Evan Gehbauer
Subcontract CMT Technician I
Metairie, Louisiana
1 Year of CMT Experience

Gavin Goins
Subcontract CMT Technician I
Metairie, Louisiana
8 Years of CMT Experience

Sammy Green
Subcontract CMT Technician I
Metairie, Louisiana
Less than 1 Year of CMT Experience

Blake G. Greene
Senior CMT Technician
Gulfport, Mississippi
29 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
ACI Concrete Strength Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges

Brittany L. Henderson
Laboratory Technician
Metairie, Louisiana
6 Years of Laboratory Experience
ACI Aggregate Base Testing Technician

David G. Henderson Sr.
CMT Technician
Metairie, Louisiana
16 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Kenneth J. Henderson
CMT Operations Supervisor
Metairie, Louisiana
25 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
ACI Concrete Construction Special Inspector
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Timmy Holleman
Quality Control Manager
Metairie, Louisiana
30 Years of Laboratory & CMT Experience
ACI Aggregate Base Testing Technician
ACI Concrete Field Testing Technician, Grade 1
ACI Concrete laboratory Testing Technician, Level I
ACI Aggregate Testing Technician, Level I
ACI Concrete Strength Testing Technician

Kalvin Howard
Subcontract CMT Technician I
Metairie, Louisiana
Less than 1 Year of CMT Experience

Jessica Hughes
Laboratory Technician
Metairie, Louisiana
Less than 1 Year of Laboratory Experience

Jonathan B. Jadrich
Senior CMT Technician
Metairie, Louisiana
22 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician, Grade I
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Patrick LaFontaine
Subcontract CMT Technician I
Gulfport, Mississippi
2 Years of CMT Experience
ACI Concrete Field Testing Technician, Grade I

Paul Lewis
Subcontract CMT Technician I
Metairie, Louisiana
Less than 1 Year of CMT Experience

Sydney L. Lowery
Subcontract Laboratory Technician
Metairie, Louisiana
Less than 1 Year of Laboratory Experience

Chad M. Ortolano
Senior CMT Technician
Metairie, Louisiana
13 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
NICET Construction Materials Testing, Asphalt, Level II
NICET Construction Materials Testing, Concrete, Level II
NICET Construction Materials Testing, Soils, Level II
Transportation Worker Identification Credential

John P. Oubre
Senior CMT Technician
Metairie, Louisiana
39 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
LaDOTD Asphaltic Concrete Plant Technician
LaDOTD Embankment and Base Course Technician

Kim H. Pagliai
Senior Laboratory/CMT Technician
Gulfport, Mississippi
39 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
ACI Concrete Laboratory Testing Technician
ACI Concrete Strength Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges

Jason M. Percle
Laboratory Technician
Metairie, Louisiana
15 Years of Laboratory & CMT Experience
ACI Aggregate Base Testing Technician
NICET Construction Materials Testing, Asphalt, Level I
NICET Construction Materials Testing, Concrete, Level I
NICET Construction Materials Testing, Soils, Level I
NICET Generalist Engineering Technology, Generalist, Level I
NICET Generalist Engineering Technology, Laboratory, Level I
NICET Transportation Engineering Technology, Highway Materials, Level I

Tim A. Percle Sr.
Senior CMT Technician
Metairie, Louisiana
38 Years of Laboratory & CMT Experience
ACI Concrete Construction Special Inspector
ACI Concrete Field Testing Technician
ACI Concrete Strength Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
ICC Structural Masonry Special Inspector
NICET Construction Materials Testing, Asphalt, Level II
NICET Construction Materials Testing, Concrete, Level II
NICET Construction Materials Testing, Soils, Level III
NICET Geotechnical Engineering Technology, Construction, Level III
NICET Geotechnical Engineering Technology, Exploration, Level III
NICET Geotechnical Engineering Technology, Generalist, Level III
NICET Geotechnical Engineering Technology, Laboratory, Level III
NICET Transportation Engineering Technology, Highway Materials, Level III
Transportation Worker Identification Credential

Katherine Perkins
Laboratory Technician
Metairie, Louisiana
Less than 1 Year of Laboratory Experience

MaxAnthony Perrin
Laboratory Technician
Metairie, Louisiana
Less than 1 Year of Laboratory Experience

Alexis Pittman
Subcontract Laboratory and CMT Technician
Baton Rouge, Louisiana
Less than 1 Year of Laboratory and CMT Experience

Suzanne Pracheil
Subcontract Senior CMT Technician
Baton Rouge, Louisiana
8 Years of Laboratory & CMT Experience
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
ACI Concrete Strength Testing Technician
ACI Concrete Laboratory Testing Technician
ACI Aggregate Base Testing Technician
Transportation Worker Identification Credential

Robert Ramirez
Subcontract CMT Technician I
Metairie, Louisiana
1 Year of CMT Experience

Ryan A. Rodrigue
Laboratory Manager
Metairie, Louisiana
19 Years of Laboratory & CMT Experience
ACI Aggregate Base Testing Technician
ACI Aggregate Testing Technician
ACI Concrete Laboratory Testing Technician
NICET Construction Materials Testing, Soils, Level II
NICET Geotechnical Engineering Technology, Laboratory, Level IV

Lawrence W. Rome, C.E.T.
Operations Manager
Metairie, Louisiana
27 Years of Laboratory & CMT Experience
NICET Construction Materials Testing, Asphalt, Level I
NICET Construction Materials Testing, Concrete, Level II
NICET Construction Materials Testing, Soils, Level IV
NICET Geotechnical Engineering Technology, Construction, Level II
NICET Geotechnical Engineering Technology, Generalist, Level III
NICET Geotechnical Engineering Technology, Exploration, Level IV
NICET Geotechnical Engineering Technology, Laboratory, Level IV
NICET Transportation Engineering Technology, Highway Materials, Level III
Transportation Worker Identification Credential

Murphy B. Romero
CMT Technician
Baton Rouge, Louisiana
5 Years of Laboratory & CMT Experience
ACI Concrete Field Testing Technician
HAZMAT 49 CFR 172, Subpart H, Nuclear Gauges
Transportation Worker Identification Credential

Melanie Ros
Laboratory Technician
Metairie, Louisiana
Less than 1 Year of Laboratory Experience

Jamal Walters
Subcontract CMT Technician I
Metairie, Louisiana
Less than 1 Year of CMT Experience

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/18/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Travis Russell Richards
468 Choctaw Drive
Abita Springs, Louisiana 70420

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

Mr. Travis Russell Richards

License/Certificate Type - Number: PE.0030992

Expiration Date: 03/31/2023

Status: Active

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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 3/18/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. David Jacob Indest
332 Leeds Street
Slidell, Louisiana 70461

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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 Jacob Indest

License/Certificate Type - Number	Expiration Date
PE.0034306	03/31/2023

Status: Active

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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.

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/10/2021 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Gwendolyn Philips Sanders
3011 28th Street
Metairie, Louisiana 70002

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

Ms. Gwendolyn Philips Sanders

License/Certificate Type - Number: PE.0027104

Expiration Date: 09/30/2023

Status: Active

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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

EUSTIS ENGINEERING, LLC

LARRY ROME

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 ***10th*** day of ***May*** , ***2021***

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

License No. WWC- ***# 267***