



LIFT STATION ALONG HWY 23  
PLAQUEMINES PARISH, LOUISIANA



LIFT STATION NO. 4  
BELLE CHASSE, LOUISIANA



**Jefferson  
Parish**

State of Louisiana

# STATEMENT OF QUALIFICATIONS

REHABILITATION TO THE NEYREY &  
VETERANS (F7-13) AND MARKET &  
SAUVE (D4-7) LIFT STATIONS

RESOLUTION NO. 139102  
SOQ NO. 22-028

**JUNE 30, 2022**



**LINFIELD, HUNTER & JUNIUS, INC.**

IN ASSOCIATION WITH:



**HUSEMAN & ASSOCIATES, LLC**



**EUSTIS ENGINEERING, LLC**



**LINFIELD, HUNTER & JUNIUS, INC.**

PROFESSIONAL ENGINEERS,  
ARCHITECTS AND SURVEYORS

3608 I8<sup>th</sup> Street / Suite 200  
Metairie, Louisiana 70002  
(504) 833-5300 / (504) 833-5350 fax  
LHJ@LHJunius.com

Ralph W. Junius, Jr., P.E.  
Nathan J. Junius, P.E., P.L.S.  
Anthony F. Goodgion, P.E.  
Benjamin N. Chadwick, AIA  
Charles T. Knight, P.E.  
Robert E. Nockton, P.E.  
Mark K. Annino

Casey M. Genovese, P.E.  
Daniel A. Flores, P.E.  
John M. Jackson, P.E.  
Timothy J. Roth, P.E.  
Luis F. Sosa, P.E.  
Richard A. Van Wootten, P.E.

June 30, 2022

Purchasing Department  
Jefferson Parish Government  
1221 Elmwood Park Blvd.  
Jefferson, LA 70123

**RE: STATEMENT OF QUALIFICATIONS  
REHABILITATION TO THE NEYREY & VETERANS (F7-13) AND  
MARKET & SAUVE (D4-7) LIFT STATIONS  
SOQ NO. 22-028  
OUR FILE #: 22M-118**

Linfield, Hunter & Junius, Inc. (LH&J) is pleased to submit our qualifications to provide Professional Engineering Services to Jefferson Parish Government for Rehabilitation to the Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations.

Linfield, Hunter & Junius, Inc. (LH&J), along with Huseman & Associates, LLC (HA) and Eustis Engineering, LLC (Eustis) have teamed together to provide a highly qualified team of professional engineers who are already very familiar with the design of sewer lift station projects. Furthermore, throughout its fifty (50) plus year history, **Linfield, Hunter & Junius, Inc. (LH&J)** and predecessor firms have routinely provided quality surveying, engineering, and design services for both public and private clients in Louisiana. With all of the work being performed at the offices of LH&J and our subconsultant local to us in Jefferson Parish, and with our past experience working together on similar projects, we expect seamless coordination and interaction between team members with very fast turnaround times.

We understand that the scope of work includes design services and resident inspection services, surveying, geotechnical inspections required for the development of plans and specifications for upgrading the pumps, piping, and electrical controls for the sewer lift stations and that the work will require coordination with the Parish's Department of Capital Projects.

We offer a very compact and exceptionally qualified team of local professionals and support staff with specialized experience specific to each and every aspect of the scope of work required by this solicitation. We are confident that we meet or exceed all the qualifications required for this very important project. We are extremely enthusiastic about this opportunity to assist Jefferson Parish and to provide its citizens with outstanding engineering services.

Purchasing Department  
Jefferson Parish Government  
Page 2  
June 30, 2022

Linfield, Hunter & Junius, Inc. is a corporation and holds Federal Tax ID: 72-0939482. Nathan J. Junius is the representative of LH&J and is authorized to contract for and bind LH&J to a contractual agreement. Please see Corporate Resolution attached. Additionally, Nathan J. Junius is the contact person for both technical and contractual clarifications throughout the evaluation period.

Mr. Nathan J. Junius, P.E., P.L.S., President  
3608 18th Street / Suite 200  
Metairie, LA 70002  
Federal Tax ID No.: 72-0939482  
Office Phone: 504-833-5300  
Fax Line: 504-833-5350  
Email: [njunius@LHJunius.com](mailto:njunius@LHJunius.com)

We appreciate your business, and we are eager to continue to provide high quality engineering and surveying services to the Jefferson Parish. We respectfully request that you select Linfield, Hunter & Junius, Inc. for this project.

Very truly yours,

LINFIELD, HUNTER & JUNIUS, INC.



Nathan J. Junius, P.E., P.L.S.  
President

NJJ/dlm

Enclosures

**TEC Professional Services Questionnaire**

**A. Project Name and Advertisement Resolution Number:**

Professional Engineering Services for Rehabilitation to the  
Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations  
Resolution No. 139102  
SOQ 22-028

**B. Firm Name & Address where Project work will be performed:**

LINFIELD, HUNTER & JUNIUS, INC.  
3608 18<sup>th</sup> Street, Suite 200  
Metairie, LA 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:**

Nathan J. Junius, P.E., P.L.S., President  
Linfield, Hunter & Junius, Inc.  
3608 18<sup>th</sup> Street, Suite 200  
Metairie, LA 70002  
504-833-5300 504-833-5350 fax  
njunius@LHJunius.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.**

Nathan J. Junius, P.E., P.L.S., President  
Linfield, Hunter & Junius, Inc.  
3608 18<sup>th</sup> Street, Suite 200  
Metairie, LA 70002  
504-833-5300 504-833-5350 fax  
njunius@LHJunius.com

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

<u>5</u> Administrative	— Estimators	— Specification Writers
<u>1</u> Architects (Licensed)	— Geologists	<u>4</u> Structural Engineers
— Chemical Engineers	— Geotechnical Engineers	— Graduate Engineers
<u>6</u> Civil Engineers (Licensed)	— Interior Designers	— Project Managers
<u>5</u> Construction Inspectors	— Landscape Architects	<u>1</u> Clerical
— Ecologists	<u>5</u> Land Surveyor	— Grant/Funding Specialist
— Electrical Engineers	— Mechanical Engineers	— Sanitary Engineers
<u>4</u> Engineer Intern	— Environmental Engineers	<u>3</u> CADD Drafters
<u>2</u> Professional Land Surveyors	<u>1</u> Architect Intern	<u>37</u> TOTAL

**F. Is this submittal by a JOINT-VENTURE? Please check: YES  NO**

If marked “No” skip to Section I. If marked “yes” complete Sections G-H.

**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. N/A

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:**

YES  NO  N/A

**I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, 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. Huseman & Associates, LLC 3501 N. Causeway Blvd Suite 710 Metairie, LA 70002	Mechanical, Electrical Engineering	Yes
2. Eustis Engineering, LLC 3011 28 <sup>th</sup> Street Metairie, LA 70002	Geotechnical Engineering	Yes
3.		

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

15

Staffing Plan – A Diagram showing all key personnel that would be available for assignment. The Staffing Plan should also include the same information for sub-consultants (if applicable).

**LINFIELD, HUNTER & JUNIUS, INC.**  
**STAFFING PLAN**



**Routine Engineering Services  
for Rehabilitation to the  
Neyrey & Veterans (F7-13 and  
Market & Sauve (D4-7) Lift  
Stations**

**SOQ No. 22-028  
Resolution No. 139102**

**Prime Consultant**



**LINFIELD, HUNTER & JUNIUS, INC.**  
PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS

**Management Team**

**Nathan J. Junius, P.E., P.L.S.**  
*Principal in Charge*

**Robert E. Nockton, P.E.**  
*Professional In Charge*

**Design Team**

**Civil Engineering**

**Luis F. Sosa, P.E.**  
*Lead Civil Engineer*

**John M. Jackson, P.E.**  
*Civil Engineer*

**Mark K. Annino, BSCE**

**Land Surveying**

**Nathan J. Junius, P.E., P.L.S.**  
*Lead Land Surveyor*

**William J. Muller, P.L.S.**  
*Professional Land Surveyor*

**Daniel D. Bindewald**  
*Survey Party Chief*

**Paul H. Morales, IV**  
*Survey Party Chief*

**Christopher G. Klimm, E.I.**  
*Survey Party Chief*

**Cooper G. Ashworth, E.I.**  
*Survey Party Chief*

**Mechanical and Electrical  
Engineering**

**Huseman & Associates, LLC**

**Jeffrey Huseman, P.E.**  
*Project Manager*

**Jason Chauvin, P.E.**  
*Director of Electrical Engineering*

**Jamey Logrande, P.E.**  
*Director of Mechanical Engineering*

**Construction Administration  
and Resident Inspection**

**John L. Scruggs, Sr.**  
*Senior Resident Inspector*

**Bryce L. Vazquez**  
*Resident Inspector*

**Geotechnical Engineering**

**Eustis Engineering, LLC**

**Benjamin M. Cody, P.E.**  
*Principal Engineer*

**James J. Hance, P.E.**  
*Senior Project Manager*

**TEC Professional Services Questionnaire**

**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:**

Nathan J. Junius, P.E., P.L.S., PTOE, President

**Project Assignment:**

Principal In Charge / Lead Land Surveyor

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

20 Years

**Education: Degree(s)/Year Specialization:**

Tulane University / 2001 / B.S. / Civil Engineering  
University of Texas / 2002 / M.S. / Civil Engineering

**Active registration: Year first registered/discipline:**

2002 / Civil / LA License No. PE.0031843 - 2005 / Land Surveying / LA License No. PLS.0004958

**Other experience and qualifications relevant to the proposed Project:**



Junius has over 20 years of project management, engineering design and construction management experience, with specialized expertise in the planning, permitting, design and construction management for a diverse range of public and private sector projects. Civil projects include major drainage canals, drainage pump stations, site developments, miles of streets, wastewater treatment plants, sewage collections systems, sewer force mains and waterline distribution projects. He has also served as an expert in disputes involving drainage and land surveying.

Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

**SEWER PROJECTS**

**N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA**

This project consisted of the installation of approximately 6,300 linear feet of new HDPE force main by horizontal directional drilling and the rehabilitation of two sewage lift stations.

TEC Professional Services Questionnaire

Nathan J. Junius, P.E., P.L.S., PTOE, President  
Principal in Charge / Lead Land Surveyor

Resume

**KENNER WASTEWATER TREATMENT PLANT NO. 3 EXPANSION, KENNER, LA**

Wastewater treatment plant No. 3 expansion from 42 MGD to 62 MGD.

**PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA**

Performed analysis of existing water and sewage collection facilities Parish-wide and developed a master water and sewerage plan to provide public sewerage to presently un-sewered areas and to provide for future Parish-wide growth.

**SEWAGE COLLECTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA**

This project includes the installation of a sewage collection system and potable water distribution system to service 500 townhouses in a new Navy housing development. The system included 2 miles of gravity sewerage, 1 mile of sewage force main, 3 sewage lift stations and the installation of **multiple 8" diameter PVC waterline loops.**

**EXPANSION OF BELLE CHASSE WASTEWATER TREATMENT PLANT, BELLE CHASSE, LA**

Lead Engineer for the expansion of the plant from 6MGD to 12 MGD including the rehabilitation of existing bio-towers and sludge drying beds and **replacement of numerous site waterlines.**

**LAND SURVEYING**

Junius has been responsible for survey operations and daily direction of the survey crew. He was also responsible for the QA/QC of multibeam deliverables. Junius has provided virtual reference station (VRS)/ real time kinematic (RTK) surveys and 3rd Order Levels for Control as well as hydrographic multibeam surveys. Deliverables included an EM Files, ASCII Files, XYZ Files and a detailed survey report.

Junius is proficient with Leica Dual Frequency RTK Rovers, Leica DNA03 Digital Auto Level, Leica GPS Base Station, G-882 Magnetometer Leica Total Robotic Total Station, Leica Geo Office, Carlson Survey/Civil Software, Autocad 2016 and Civil 3D.

Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas.

Junius has provided first order leveling for hundreds of miles of levee construction including many floodwalls and pump stations. ROW maps, levee profiles and cross sections were also provided before and after construction to confirm as-built conditions.

Junius is a member of the New Orleans Chapter American Society of Civil Engineers, American Public Works Association, Louisiana Engineering Society, Society of American Military Engineers, Louisiana Society of Land Surveyors and American Council of Engineering Companies of Louisiana/New Orleans Chapter. He has served as board member and president of several of these organizations.

TEC Professional Services Questionnaire

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Robert E. Nockton, P.E., Vice President

**Project Assignment:**

Professional In Charge

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

27 Years

**Education: Degree(s)/Year Specialization:**

Rice University / B.S. / 1995 / Civil Engineering

**Active registration: Year first registered/discipline:**

2000 / Civil / LA License No. PE.0028802

**Other experience and qualifications relevant to the proposed Project:**



Nockton has been involved in the engineering of a wide variety of projects including improvements to major drainage structures, storm water management systems with green infrastructure, drainage pump stations, drainage studies, urban streets projects, water and **sewerage studies**, new waterlines and **sewer lines**, waterline and **sewer line replacement and upgrades**, **wastewater pump station design and rehabilitation**, utility relocations, surveying and site design. Nockton has been Project Manager and/or Lead Civil Engineer on many successful projects in the past five years. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

**N. Hullen and Veterans / Edenborn and Veterans Force Main Extension with Lift Station Improvements, Metairie, LA**

Nockton is the **Project Manager** for this project. This project consists of the installation of approximately **6,300 linear feet of new HDPE force main** by horizontal directional drilling and the **rehabilitation of two sewage lift stations**.

**SANITARY SEWERAGE SYSTEM ALONG LOUISIANA HIGHWAY 23 FROM BELLE CHASSE WASTEWATER TREATMENT PLANT TO LA REUSSITE, PLAQUEMINES PARISH, LA**

Nockton is the **Project Manager** for this project. This project consists of the construction of sanitary sewerage, force mains, three large transfer lift stations, numerous minor lift stations and house connections along a 10-mile reach of presently unsewered area.

**ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

**INCREASE PUMPING CAPACITY OF SEWAGE LIFT STATION NOS. 4 AND 7, BELLE CHASSE, LA**

Nockton was **Project Manager** and Lead Civil Engineer for this project. This project included construction of new discharge force mains, upgrading of lift station pumps and motors and rehabilitation of the Lift Station No. 7 wet well.

**PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA**

Nockton was Lead Civil Engineer for this project. Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently unsewered areas and to provide sewerage for future Parish-wide growth.

**EAST BANK SEWERAGE EXTENSIONS, POINTE-A-LA-HACHE TO BOHEMIA, PLAQUEMINES PARISH, LA**

Nockton was **Project Manager** and **Lead Civil Engineer** for this project. This project included the installation of a 2-mile long **combination gravity/low pressure sewage collection system** including three sewage lift stations and individual grinder pump stations.

**KENNER WASTEWATER TREATMENT PLANT NO. 3 EXPANSION, KENNER, LA**

Nockton is **Project Manager** and Lead Civil Engineer for this plant expansion from 42 MGD to 62 MGD.

**EXPANSION AND REHABILITATION OF THE BELLE CHASSE WASTEWATER TREATMENT PLANT, PLAQUEMINES PARISH, LA**

Nockton was **Project Manager** and Lead Civil Engineer for a plant expansion from 6 MGD to 12 MGD and including rehabilitation of existing clarifiers, bio towers and sludge drying beds.

**SEWAGE COLLECTION AND WATER DISTRIBUTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA**

Nockton was Lead Civil Engineer for this project. This project included the installation of a **new sewage collection system** and potable water distribution system to service 500 townhouses in a new Navy housing development. The system included **two miles of gravity sewerage, one mile of sewage force main, three sewage lift stations** and the installation of multiple 8" diameter PVC waterline loops.

**RUSSELL STREET IMPROVEMENTS, JEFFERSON PARISH, LA**

Nockton was Lead Civil Engineer for this project. This project entailed the installation of approximately 1,100 feet of new 45-inch by 73-inch arch pipe beneath Stephen Drive from Russell Street to the Soniat Canal, the reconstruction of Stephen Drive and **sanitary sewer line relocation**.

**SANITARY SEWERAGE REPLACEMENT IN LOWER TRIUMPH, PLAQUEMINES PARISH, LA**

Oversaw the cleaning, television inspection and smoke testing of sanitary sewer lines and used the results of the television inspection and smoke testing to develop plans for sewer point repairs and rehabilitation of a deteriorated sewage lift station.

TEC Professional Services Questionnaire

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Luis F. Sosa, P.E., Civil Engineer

**Project Assignment:**

Lead Civil Engineer

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

43 Years

**Education: Degree(s)/Year Specialization:**

Louisiana State University New Orleans / B.A. / 1973 / Biological Sciences  
University of New Orleans / B.S. / 1978 / Civil Engineering  
Tulane University / M.S. / 1982 / Civil Engineering

**Active registration: Year first registered/discipline:**

1984 / Civil / LA License No. PE.0020850  
1993 / Environmental / LA License No. PE.0020850

**Other experience and qualifications relevant to the proposed Project:**



Sosa is a seasoned engineer with experience primarily in the areas of major drainage improvements, water treatment and distribution, **wastewater collection system evaluation, repair, and upgrades, wastewater treatment**, and land development.

Sosa has considerable experience performing hydraulic analysis of open channels including culverts and of pressure pipe, including waterlines and sewage force mains.

**N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA**  
Sosa is the **Lead Civil Engineer** for this project. This project consists of the installation of approximately **6,300 linear feet of new HDPE force main** by horizontal directional drilling and the **rehabilitation of two sewage lift stations**.

**SANITARY SEWERAGE SYSTEM ALONG LOUISIANA HIGHWAY 23 FROM BELLE CHASSE WASTEWATER TREATMENT PLANT TO LA REUSSITE, PLAQUEMINES PARISH, LA**  
Sosa is the **Lead Civil Engineer** for this project. This project consists of the construction of sanitary sewerage, force mains, three large transfer lift stations, numerous minor lift stations and house connections along a 10-mile reach of presently unsewered area.

## TEC Professional Services Questionnaire

Luis F. Sosa, P.E., Civil Engineer  
Project Assignment – Lead Civil Engineer

Resume

### **ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

#### **INCREASE PUMPING CAPACITY OF SEWAGE LIFT STATION NOS. 4 AND 7, BELLE CHASSE, LA**

Sosa was Senior Civil Engineer for this project. This project included construction of new discharge force mains, upgrading of lift station pumps and motors and rehabilitation of the Lift Station No. 7 wet well. Sosa was the Lead Civil Engineer for a previous project that included the **rehabilitation of the wet wells of these two major lift stations.**

#### **PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA**

Sosa was Senior Sanitary Engineer for this project. Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently un-sewered areas and to provide sewerage for future Parish-wide growth.

#### **EAST BANK SEWERAGE EXTENSIONS, POINTE-A-LA-HACHE TO BOHEMIA, PLAQUEMINES PARISH, LA**

Sosa was Senior Civil Engineer for this project. This project included the installation of a 2-mile long **combination gravity/low pressure sewage collection system** including three sewage lift stations and individual grinder pump stations.

#### **KENNER WASTEWATER TREATMENT PLANT NO. 3 EXPANSION, KENNER, LA**

Sosa was Senior Sanitary Engineer for this plant expansion from 42 MGD to 62 MGD.

#### **BELLE CHASSE WASTEWATER TREATMENT PLANT EXPANSIONS, PLAQUEMINES PARISH, LA**

Sosa was the Senior Sanitary Engineer for two expansions of the Belle Chasse Wastewater Treatment Plant. The first expansion, completed in the 1980's, expanded that plant capacity to 6 MGD and added new secondary treatment. Another expansion was recently completed that expanded that plant capacity from 6 MGD to 12 MGD and included rehabilitation of the existing plant facilities.

#### **SANITARY SEWERAGE REPLACEMENT IN LOWER TRIUMPH, PLAQUEMINES PARISH, LA**

Sosa was Lead Civil Engineer for this project. Oversaw the cleaning, television inspection and smoke testing of sanitary sewer lines and used the results of the television inspection and smoke testing to develop plans for sewer point repairs and rehabilitation of a deteriorated sewage lift station.

#### **DAVANT TO EAST POINTE-A-LA-HACHE SANITARY SEWERAGE SYSTEM, PLAQUEMINES PARISH, LA**

Sosa was the Lead Civil Engineer this project. This work included **five miles of gravity collection lines, two miles of force mains, 300 house connections, and six sewage lift stations.**

#### **PARISHWIDE SMOKE TESTING OF SANITARY SEWERS IN PLAQUEMINES PARISH**

Sosa was the Senior Sanitary Engineer responsible for smoke tests, TV inspections, ratings, and **rehabilitation of over 100,000 linear feet of gravity sewers and numerous deteriorated sewage lift stations** in Plaquemines Parish.

**TEC Professional Services Questionnaire**

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

William J. Muller, P.L.S., Land Surveyor

**Project Assignment:**

Professional Land Surveyor

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

16 Years

**Education: Degree(s)/Year Specialization:**

Southeastern Louisiana University / 1954

**Active registration: Year first registered/discipline:**

1995 / Land Surveying / LA License No. PLS. 0004756

**Other experience and qualifications relevant to the proposed Project:**



Muller has extensive experience in all aspects of land surveying throughout Louisiana. He was technical manager for the largest land survey firm in Southeast Louisiana for many years. Prior to that he worked in the offshore industry spotting well locations, run field crews for numerous Louisiana Power and Light topographic and boundary surveys, analyzed thousands of boundary surveys, and supervised multiple field crews, draftsmen and land surveys. He has been providing land surveying for the firm the past 11 years.

Following is a small sampling of Muller's experience:

**WOODLAND DRIVE – GENERAL DEGAULLE DRIVE TO TULLIS DRIVE**

**Lead Land Surveyor.** Topographic and boundary survey for City of New Orleans roadway project.

**MAGAZINE STREET - ROADWAY IMPROVEMENTS**

**Lead Land Surveyor.** Topographic and boundary survey for City of New Orleans roadway project.

**GENERAL DEGAULLE CANAL CROSSINGS**

**Lead Land Surveyor.** Topographic and boundary survey for State Highway 428.

**SOUTH CLAIBORNE AVENUE CANAL I**

**Lead Land Surveyor.** Topographic and boundary survey for State Highway 90.

**ST. CHARLES AVENUE NAPOLEON AVENUE TO CALLIOPE STREET**

**Lead Land Surveyor.** Topographic and boundary survey for City of New Orleans roadway.

**ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

**I-10 METAIRIE – CAUSEWAY TO ORLEANS PARISH LINE**

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

**I-10 METAIRIE – CLEARVIEW TO CAUSEWAY**

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

**I-10 METAIRIE – VETERANS MEMORIAL BLVD. TO CLEARVIEW**

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

**I-10 KENNER – WILLIAMS BLVD. INTERCHANGE**

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

**US 190 - MANDEVILLE – CAUSEWAY TO STATE PARK**

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

**US 190 - SLIDELL – FREMAUX INTERCHANGE**

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

**US 190 - SLIDELL - FREMAUX- 9th TO I-10**

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

**I-10 SLIDELL - LA 433 TO US 190**

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

**US 190 SLIDELL - US 11 TO THOMPSON RD.**

Lead Land Surveyor. Topographic and boundary survey for U.S. Highway 190.

**ST. TAMMANY PARISH EAST OF ABITA SPRINGS – NEW HIGHWAY FROM LA 36 TO LA 435**

Lead Land Surveyor. Topographic and boundary survey for new Louisiana state highway.

**LA 611 – METAIRIE ROAD**

Lead Land Surveyor. Topographic and boundary survey for State Highway LA 611.

**I-10 NEW ORLEANS - S. BROAD TO ST. CHARLES**

Lead Land Surveyor. Topographic and boundary survey for Interstate 10.

**LA 3139 EARHART BLVD. – JEFFERSON/ORLEANS PARISH LINE TO CLARA ST.**

Lead Land Surveyor. Topographic and boundary survey State Highway 3139.

**LAKE CHARLES - McNEESE/AIRPORT**

Lead Land Surveyor. Topographic and boundary survey for Lake Charles, Louisiana airport.

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

John L. Scruggs, Sr., Resident Inspector

**Project Assignment:**

Construction Administration and Senior Resident Inspector

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

1 Year

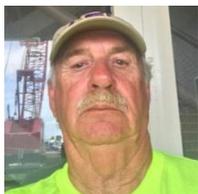
**Education: Degree(s)/Year Specialization:**

Tulane University / Business Administration  
Nicholls State University – Safety Certified II Diploma (T-2)

**Active registration: Year first registered/discipline:**

N/A

**Other experience and qualifications relevant to the proposed Project:**



**RELEVANT EXPERIENCE:**

**ORLEANS MARINA SEEPAGE REPAIRS PHASE III, BULKHEAD REPLACEMENT PROJECT, NEW ORLEANS, LA**

The project consists of demolition of existing bulkhead cap, removing and replacing asphalt parking and associated items, installation of a new sheet pile bulkhead and timber piers for the Orleans Marina. As a resident project representative, Mr. Scruggs serves as an Engineer's liaison with the Contractor. He assists the Engineer to provide information to the Contractor regarding the intent of the contract documents. He is also responsible for conducting daily site observations of the Contractor's work, keeping track of quantity of work performed, and generating daily reports which summarize the Contractor's work."

**ST. BERNARD HOUSING PROJECTS**

Rebuild drainage, sewer, water and streets.

**NEW ORLEANS FRENCH QUARTER**

Point repairs: Sewerage and drainage

**UPTOWN – Claiborne to St. Charles Avenue and Napoleon Avenue to Jefferson Avenue**

Point Repairs

**ST. BERNARD PARISH, LA**

Rehab Lift Stations

**CITY OF NEW ORLEANS: WEST END BOULEVARD, NEW ORLEANS, LA**

Responsible for \$2.7M Street\_Reconstruction Project - (Kenilworth - Harrison Avenue) Urban Project constructed under State Guidelines.

**CITY OF JACKSON, MISSISSIPPI-SMITH ROBERTSON MUSEUM, JACKSON, MS**

Responsible for \$320,000 of site work improvements, drainage, sidewalks, asphalt and concrete work, and electrical lighting.

**TOWN OF GRAMERCY-AIRLINE HIGHWAY SEWER LINE IMPROVEMENTS, GRAMERCY, LA**

Responsible for sewer line improvements and construction of sewer lift stations.

**HOUSING AUTHORITY OF NEW ORLEANS-IBERVILLE/LAFITTE HOUSING PROJECT**

Responsible for \$1.2M improvements to fire escapes, drywall, and insulation of fire doors.

**ORLEANS PARISH SCHOOL BOARD, NEW ORLEANS, LA**

Frantz Elementary School - Responsible for \$289,000 improvements for ADA Elevator, and related improvements.

Chester Elementary School

Responsible for \$664,000 of improvements to Air-Conditioning System.

Sherwood Forest Elementary School

Responsible for \$484,000 of improvements to Air-Conditioning System.

**CITY OF NEW ORLEANS: BURTHE STREET**

Responsible for \$1.9M improvements to drainage, sewer, water line, pavement, sidewalks, and asphalt. Responsible for weekly progress meetings, field changes, plan changes, pay changes, and correspondence between C.N.O. and contractor.

Removal and replacement of existing asphalt roadway, installation of sub-surface drainage, catch basins, concrete curbs and gutters, etc.

TEC Professional Services Questionnaire

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

John M. Jackson, P.E., Civil Engineer

**Project Assignment:**

Civil Engineer

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

7 Years

**Education: Degree(s)/Year Specialization:**

BS/Biology/Bob Jones University/2001  
BS/Civil Engineering/University of New Orleans/2018

**Active registration: Year first registered/discipline:**

LA/Civil/2021/PE.0045804; LA

**Other experience and qualifications relevant to the proposed Project:**



Jackson specializes in the design of civil projects such as site developments, utility expansions and relocations, urban streets, highways, surveying storm water management systems, improvements to major drainage structures, drainage studies, and green infrastructure.

Jackson has varied experience in design for public clients including parish and local governments; and private clients, including commercial, institutional and industrial. His design experience includes a range of civil engineering and surveying disciplines for site investigation, feasibility study, conceptual layouts, value engineering, detailed designs, preparation of plans and specifications, and cost estimates. Jackson has successfully designed projects for Jefferson Parish, Plaquemines Parish, and City of New Orleans Department of Public Works. Jackson is a licensed Remote Pilot to fly drones for aerial surveys.

**SANITARY SEWERAGE SYSTEM ALONG LOUISIANA HIGHWAY 23 FROM BELLE CHASSE WASTEWATER TREATMENT PLANT TO LA REUSSITE, PLAQUEMINES PARISH, LA**

This project consists of the **construction of sanitary sewerage, force mains, three large transfer lift stations, numerous minor lift stations** and house connections along a 10-mile reach of presently unsewered area.

## TEC Professional Services Questionnaire

John M. Jackson, P.E., Civil Engineer  
Project Assignment - Civil Engineer

Resume

### **ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

#### **L&A ROAD IMPROVEMENTS, METAIRIE, LA**

Full engineering services including topographic surveying and preliminary and final design for site design including roadway, drainage, and water main and **gravity sewer replacement on a large military base**. Role: Civil Engineer

#### **FEMA RECOVERY ROADS PROGRAM (RR028) DESIRE GROUP C, NEW ORLEANS, LA**

Full Engineering services including topographic surveying, preliminary and final design, bidding, construction administration and resident inspection. The total project consists of the of 20,585 linear feet of roadway reconstruction and rehabilitation. This includes the design and replacement or repair of the storm drainage system, **gravity sewer lines** and water mains. Role: Project Manager.

#### **MAGAZINE STREET RECONSTRUCTION, NEW ORLEANS, LA**

Full Engineering services including topographic surveying, preliminary and final design, bidding, construction administration and resident inspection. The total project consists of the of 12,500 linear feet of 35' wide roadway reconstruction, including removal of over 18,720 linear feet of streetcar tracks that are buried under Magazine Street, construction of new concrete roadway, replacement of the storm drainage system, **gravity sewer lines** and water mains. Role: Civil Engineer

#### **JEFFERSON PARISH DISTRICT 5 STREETS RECONSTRUCTION, METAIRIE, LA**

Full engineering services including topographic surveying, scoping, preliminary and final design, bidding, construction administration and resident inspection. This project included concrete patching, cold milling, and overlay and reconstruction of over 100 flood damaged streets (35,500 l.f.). Role: Civil Engineer

#### **AMES BLVD. RESURFACING, MARRERO, LA**

Full engineering services including topographic surveying, scoping, preliminary and final design, and bidding. The total project consists of 1,990 linear feet of roadway resurfacing. Role: Civil Engineer

TEC Professional Services Questionnaire

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Mark K. Annino, BSCE, Vice President

**Project Assignment:**

Civil Engineering

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

27 Years

**Education: Degree(s)/Year Specialization:**

University of New Orleans / B.S. / 1995 / Civil Engineering

**Active registration: Year first registered/discipline:**

1995 / Civil / LA License No. EI.0016308

**Other experience and qualifications relevant to the proposed Project:**



Annino has vast experience preparing plans and specifications for numerous municipal and private projects. The scopes of these projects include roadways, bridges, subsurface and major drainage structures, water distribution systems, utility system replacement / relocation (sewer, water, drain, etc.), hydraulic structures. Annino has also been involved in the permit application process and construction administration of several of these projects. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

**N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN**

**EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA**

Annino performed preliminary geometric layouts and developed logistical construction procedures for this project that consists of the installation of approximately **6,300 linear feet of new HDPE force main** by horizontal directional drilling and the **rehabilitation of two sewage lift stations**.

**MAGAZINE STREET / PRYTANIA STREET RECONSTRUCTION, NEW ORLEANS, LA**

Annino was the Civil Engineering Design Team Leader for this project. This project entailed the reconstruction of 26,500 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

**LOUISVILLE STREET / CATINA STREET RECONSTRUCTION, NEW ORLEANS, LA**

Annino was the Civil Engineering Design Team Leader for this project. This project entailed the reconstruction of 3,950 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

**ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

**PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA**

Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently unsewered areas and to provide sewerage for future Parish-wide growth.

**EAST AND WEST LIVINGSTON PLACE ROADWAY IMPROVEMENTS, METAIRIE, LA**

Annino was the Civil Engineering Design Team Leader for this project. This project consisted of the reconstruction of East and West Livingston Place including installation of new subsurface drainage, **sanitary sewer line replacement** and utility relocation.

**CUDDIHY DRIVE AND WOODVINE AVENUE DRAINAGE IMPROVEMENTS, METAIRIE, LA**

Annino was the Civil Engineering Design Team Leader for this project. This project consisted of the upgrading of the subsurface drainage system along Cuddihy Drive and a part of Woodvine Avenue, the reconstruction of the affected roadways, **sanitary sewer line relocation** and utility relocation.

**WOODLAND AVENUE RECONSTRUCTION, NEW ORLEANS, LA**

Annino was the Civil Engineering Design Team Leader for this project. This project entailed the reconstruction of 2,250 feet of divided roadway including **replacement of sanitary sewer lines** and utility relocation.

**HOLLYGROVE DRAINAGE IMPROVEMENTS, NEW ORLEANS, LA**

Annino performed Civil Engineering on this project. LH&J designed all improvements including the covered box culverts, subsurface drainage, two drainage pumping stations, **sanitary sewerage replacement and relocation**, utility relocations and roadway reconstruction.

**EARHART CORRIDOR RECONSTRUCTION, NEW ORLEANS, LA**

Annino performed Civil Engineering on this project. This project entailed the reconstruction of 7,000 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

**OTHER RELEVANT PROJECTS:**

- St. Charles Avenue - 10,500 feet of roadway reconstruction
- S. Claiborne Ave Canal I - 5,000 feet of roadway reconstruction and utility relocation
- General DeGaulle Crossings (S.P. No. 410-01-0039)
- Dakin Street Corridor
- Reconstruction of Metairie Road Bridge and Approach Roads at 17<sup>th</sup> Street Canal (S.P. No. 826-04-0011 & 836-05-0005), New Orleans - Metairie, LA
- Reconstruction of Eight Minor Streets, City of New Orleans, LA (City Project # 88-8-A2)
- Pressburg Street and Alcee Fortier Street Reconstruction, New Orleans, LA
- Reconstruction of Leon C. Simon Bridge and Approaches at London Canal, New Orleans, LA
- Reconstruction of Gentilly Boulevard Bridge and Approaches at London Canal, New Orleans, LA
- 70-acre (5,400 parking space) site expansion of Oakwood Shopping Center, Gretna, LA
- Shemberdy Industrial Park Subdivision (23 acres), Jefferson, LA
- North Kenner Park-N-Ride Parking Lot, Kenner, LA

**TEC Professional Services Questionnaire**

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Daniel D. Bindewald, Surveyor

**Project Assignment:**

Land Survey / Survey Party Chief

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

13 Years

**Education: Degree(s)/Year Specialization:**

Southeastern Louisiana University / B.A. / Criminal Justice

**Active registration: Year first registered/discipline:**

N/A

**Other experience and qualifications relevant to the proposed Project:**



Bindewald has served as a survey crew member and more recently as a survey party chief on numerous projects.

Bindewald initially joined LH&J as a survey party crew member and began performing as the **crew chief** of LH&J's Survey Party Team 2 in 2009. Bindewald is proficient in the use of modern GPS/RTK survey instruments, as well as conventional total stations and levels. He is experienced in performing land surveys in all types of environments, including urban, forests and marshes. Bindewald has led survey crews conducting boundary, topographic and hydrographic surveys in Louisiana, Texas and Mississippi. He is knowledgeable of the USACE New Orleans District Minimum Survey Standards Edition 4.1, February 2015, (as well as prior editions) and has a high level of experience and expertise ensuring that all survey work performed by LH&J for the USACE New Orleans district is performed in strict compliance with these standards. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

**INNER HARBOR NAVIGATION CANAL SURGE PROTECTION BARRIER, ORLEANS PARISH, LOUISIANA**

Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. Located the USACE baselines and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36" diameter pipe piles were provided for QA/QC measures. Bindewald was the GPS survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards.

**ADDITIONAL EXPERIENCE AND QUALIFICATIONS**

**STORM PROOFING ORLEANS PARISH DRAINAGE PUMP STATIONS, NEW ORLEANS, LA**

Provided topographic surveys of 18 existing pump station sites for the project. Baselines and benchmarks were established to obtain elevations and latitude/longitude data. Utilities were located and related to the baselines using station/offset data, right-of-way maps were provided to the USACE for project design. Bindewald was the GPS Survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards. Program Cost was approximately \$200 million.

**PREPARATION OF PLANS AND SPECIFICATIONS FOR THE HURRICANE PROTECTION SYSTEM AT WEST BANK NON-FEDERAL LEVEE NOV-NF-W-04 OAKVILLE TO LAREUSSITE IN PLAQUEMINES PARISH, LA**

During the design of this 8.3 mile levee and fronting protection project, Bindewald was the GPS survey party crew chief responsible for performing the supplemental surveys that were needed to complement the Government furnished survey information. Detailed topographic surveys were performed using GPS/RTK equipment at the Ollie Pump Station and at the interface with the adjacent WBV-09a floodwall. Hydrographic surveys were performed to collect bathymetric data for a number of canals and bodies of water that are immediately adjacent to the levee alignment. All elevation data was collected using the North American Vertical Datum (N.A.V.D. 88) (2004.65) and all X-Y coordinates were based upon the Louisiana State Plane Coordinate System, South Zone NAD 83, in U.S. survey feet. During the construction of the project, Bindewald was the GPS survey party chief responsible for field locating the locations for installing 30 temporary bench marks (TBMs) that were supported by 60-foot deep concrete filled boreholes. After construction of the TBMs he performed high precision  $\pm 1.5$  mm leveling surveys to tie the TBMs into the required vertical and horizontal datums. He also field located the installation locations for 34 geotechnical instrumentation clusters and monitoring panels that are used to measure settlement during the first stage of the levee construction and then surveyed the precise elevation and location for each instrument after they were installed. As part of the settlement monitoring program, every two weeks Bindewald leads a survey crew that performs high precision elevation surveys of each of the 34 settlement plates and monitoring panels so that surveyed data can be correlated to the remotely monitored settlement gauges. Construction cost of the project is approximately \$45 million.

**TEC Professional Services Questionnaire**

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Paul H. Morales, IV, BSCE, Surveyor

**Project Assignment:**

Land Survey / Survey Party Chief

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

9 Years

**Education: Degree(s)/Year Specialization:**

University of New Orleans / B.S. / 2005 / Civil Engineering

**Active registration: Year first registered/discipline:**

N/A

**Other experience and qualifications relevant to the proposed Project:**



Morales has both civil engineering design experience and resident inspection experience. During two summers while still in college, he often served as an LH&J survey crew member. He was a design engineer for civil site work on numerous CVS/Pharmacy and Dollar General store sites. Large Scale Topographical and ALTA Surveys for U.S. Army Corps of Engineers, Plaquemines Parish Government and a major pharmacy chain. Elevation, Construction Layout and Pile Layout, GPS, Robotics, Total Station experience including data transfer, plotting and printing. Manual and Mechanical Traffic Counts. TWIC, ATSSA – Certified

Flagger/Traffic Control Technician/Traffic Control Supervisor

**RELEVANT EXPERIENCE:**

**INNER HARBOR NAVIGATION CANAL SURGE PROTECTION BARRIER, ORLEANS PARISH, LA**

Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. The USACE baselines were located and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36-inch diameter pipe piles were provided for QA/QC measures. Morales performed as a survey party technician for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with New Orleans District Minimum Survey Standards. Construction cost >\$1.5B

**HSDRRS LEVEE PROFILES FOR SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY – EAST – LAKE PONTCHARTRAIN LEVEE SYSTEM**

Approximately 63 miles of earthen levee centerline profile surveys in Jefferson, Orleans and St. Bernard Parish using tilt rover and base stations. Project compared the existing profile elevations to the design profile elevations.

**SOUTHSHORE HARBOR, NEW ORLEANS, LA**

Hydrographic survey of approximately 150 acres in Southshore Harbor including portions of the navigation channel and Lake Pontchartrain. Included cross sections and profiles of approximately 10 acres of the north peninsula floodwall for a potential dredge spoil area.

**AVONDALE SHIPYARD REDEVELOPMENT, AVONDALE, LA**

Hydrographic surveys for 2 miles of the Mississippi River in front of the existing docks. USACE Baseline profile surveys and cross sections. Included batture surveys and topographic surveys of existing lay down areas.

**MAGAZINE STREET TOPOGRAPHIC SURVEY, NEW ORLEANS, LA**

LH&J provided topographic surveying services for the project that consisted of the reconstruction of 12,500 linear feet of 35' wide roadway, including removal of over 18,720 linear feet of streetcar tracks that are buried under Magazine Street, construction of new concrete roadway, replacement of the storm drainage system, sewer lines and water mains. Role: Survey Party



**TEC Professional Services Questionnaire**

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Christopher G. Klimm, E.I., Civil Engineer in Training, Surveyor

**Project Assignment:**

Land Survey / Survey Party Chief

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

2 Years

**Education: Degree(s)/Year Specialization:**

University of New Orleans / B.S. / 2019 / Civil Engineering

**Active registration: Year first registered/discipline:**

2020 / Civil / LA License / EI.0034562

**Other experience and qualifications relevant to the proposed Project:**



Klimm is a civil engineer intern who has been with LH&J for two years. He has worked on various civil and structural engineering projects and has experience as a dock inspection team member and structural designer. He has the following experience:

**DRAINAGE IMPROVEMENTS N. SIBLEY AT WEST NAPOLEON INSPECTION. METAIRIE. LA**

Resident Inspector for portions of the construction of drainage improvements at N. Sibley St. Klimm was responsible for monitoring the work, verifying contractor quantities and preparation of daily reports summarizing daily construction activities.

**PIPELINE LOCATION FOR SOIL BORINGS. HACKBERRY. LA**

Survey Team Member for the location of existing utility lines in Calcasieu Lake in advance of the drilling of soil borings. Klimm was responsible for obtaining water surface level elevations in the locations of the proposed borings and operating a hydraulic piezometer to confirm the accuracy of the signs showing utility lines locations.

**AVONDALE SHIPYARD REDEVELOPMENT. WESTWEGO. LA**

Klimm was part of a Team that inspected a damaged dock in the Avondale Shipyard. Klimm developed schematics of the structural supports of the dock and documented signs of damage in the piles or beams. Klimm subsequently drafted plans of the dock specifying which piles or beams needed replacing.

**TEC Professional Services Questionnaire**

**Christopher G. Klimm, E.I., Civil Engineer in Training, Surveyor  
Project Assignment – Land Survey / Survey Party Chief**

**Resume**

**GEISENHEIMER CANAL IMPROVEMENTS, METAIRIE, LA**

Klimm assisted with the plans and specifications for the construction of Geisenheimer Canal Improvements. This project includes the installation of a new 12' x 8' reinforced concrete box culvert inside Metairie County Club. Klimm was responsible for the design and drafting of structural details of drainage junction boxes where lateral pipes connected to the new box culvert.

**UNITED BULK TERMINAL DOCK INSPECTIONS, DAVANT, LA**

Klimm was part of a Team that inspected damaged docks and assisted in assembling the damage report. This project consisted of a substructure inspection by boat of a steel pile dock structure located on the Mississippi River. Included inspection report prepared in accordance with the ASCE MOP No. 130 – “Waterfront Facilities Inspection and Assessment”.

**HURRICANE IDA DAMAGE ASSESSMENTS, PORT OF NEW ORLEANS, LA**

Klimm was part of LH&J damage assessment team working traveling to various PONO facilities, providing information for the damage assessment reports. Worked on quantity take-offs and cost estimates. Assisted in preparation of the forms required for the assessments.

**NASA MICHOD ASSEMBLY FACILITY, WEST BARGE DOCK INSPECTION, NEW ORLEANS, LA**

Klimm was part of a Team that performed a substructure inspection of the West Barge Dock. He also assisted with load capacity calculations, repair sketches and material take-offs.

**LOUMOR OUTFALL DITCH IMPROVEMENTS, METAIRIE, LA**

Klimm assisted with the plans and specifications for the construction of Loumor Ditch Drainage Improvements. This project takes place inside Metairie County Club and includes the installation of a new 78" x 122" reinforced concrete drainage line which will start at Geisenheimer canal and end at Loumor ditch. Specifically, Klimm drafted the structural details for the new drainage junction boxes.

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Cooper G. Ashworth, E.I., Civil Engineer in Training, Surveyor

**Project Assignment:**

Land Survey / Survey Party Chief

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

1 Year

**Education: Degree(s)/Year Specialization:**

Louisiana State University/B.S./2021/Civil Engineering  
FAA Certified Remote Pilot License/2021

**Active registration: Year first registered/discipline:**

2021 / Civil / LA License / EI.0034948

**Other experience and qualifications relevant to the proposed Project:**



**RELEVANT EXPERIENCE:**

**ST. JAMES SOLAR, VACHERIE LA, ST. JACQUES SOLAR, VACHERIE LA, AND SUNLIGHT ROAD SOLAR, FRANKLINTON, LA**

LH&J was responsible for conducting topographic and boundary surveys for 4,500 acre solar farm facility in Vacherie and Franklinton, LA. The projects consisted of surveying both through traditional surveying and by utilizing Lidar scanning technology. The project fee was over \$250,000.00.

Determined site boundaries, provided contours and, collected georeferenced aerial imagery to provide a construction progress exhibit to the client, collected georeferenced aerial imagery to assist in the development of servitudes and parcels of land.

**RENE INDUSTRIES SAND PIT, DARROW, LA**

LH&J provided land surveying in conjunction with the permitting of levee crossings and a sand pit on the batture. The project was permitted through CPRA, PLD and LADNR through the use of a Joint Permit Application.

**FRANCE ROAD YARD SURVEY, NEW ORLEANS, LA**

Approximately 20 acre survey for the NOPBRR for the expansion of a railyard. Included topographic survey, hydrographic surveying of the industrial canal, aerial imagery and survey baseline control.

**ORPHEUM AVENUE, NEW ORLEANS, LA**

Topographic Survey Drafting, Drone Surveying, Photogrammetry

**XPLORE CREDIT UNION, METAIRIE, LA**

Boundary Survey Drafting

TEC Professional Services Questionnaire

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Bryce L. Vazquez, Resident Inspector

**Project Assignment:**

Resident Inspector

**Name of Firm with which associated:**



**LINFIELD, HUNTER & JUNIUS, INC.**

**Years' experience with this Firm:**

2 Years

**Education: Degree(s)/Year Specialization:**

University of New Orleans / B.S./ 2020 / Civil Engineering

**Active registration: Year first registered/discipline:**

N/A

**Other experience and qualifications relevant to the proposed Project:**



**REGISTRATIONS/CERTIFICATIONS:**

ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

**N SIBLEY ST. AT WEST NAPOLEON SUBSURFACE DRAINAGE IMPROVEMENTS (PHASE I II), JEFFERSON PARISH, LA**

Resident Inspector for this subsurface drainage project that consisted of removing concrete walks and drives to install a new 1130 linear feet of 8" PVC/C900 Water Main, removing 1000 feet of PCC pavement to install new 24" R.C.P. drain line, and replacing 6" sewer lines with PVC on a residential street in Metairie, LA. Vazquez was responsible for monitoring the work and contractor QC and QA activities, coordinating materials testing activities, verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

**FLOOD GATE REPAIRS GATES W-33 & E-07 FOR SOUTH LOUISIANA FLOOD PROTECTION AUTHORITY-EAST, NEW ORLEANS, LA**

Resident Inspector for this project that consisted of demolishing sections of broken Flood Gate Wall and repairing the concrete embankment wall, column, and flood gate. Vazquez was responsible for monitoring the work and contractor QC and QA activities, recording contractor work time and train delay time, and verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

## TEC Professional Services Questionnaire

**L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

### PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>N. Hullen and Veterans Force Main Extension/Edenborn and Veterans Force Main Extension with Lift Station Improvements Jefferson Parish, LA</b></p> <p><b>Jose Gonzalez, P.E.</b> Jefferson Parish 1221 Elmwood Park Blvd.-Ste 906 Harahan, LA 70123 (504) 736-6833</p>  	<p>Jefferson Parish Sewage Lift Stations G7-9 and F7-6 are two main lift stations that service the sanitary sewerage system along Veterans Memorial Boulevard between Causeway Boulevard and the Suburban Canal. Lift Station G7-9 is located at the southwest corner of the intersection of N. Hullen Street and Veterans Memorial Boulevard. Lift Station F7-6 is located at the southwest corner of the intersection of Edenborn Avenue and Veterans Memorial Boulevard. Over the years these lift stations and their discharge force mains have deteriorated and accordingly the lift stations regularly backup during peak events.</p> <p>This project consists of the <b>rehabilitation of Lift Station G7-9 and Lift Station F7-6</b> and the <b>construction of new effluent force mains</b> for each lift station. Rehabilitation of the lift stations includes waterproofing of the wet wells and replacing pumps, motors and ancillary equipment. A new 10-inch diameter HDPE force main will be installed by horizontal directional drilling from Lift Station G7-9 along the south side of Veterans Memorial Boulevard to Lift Station F7-6, approximately 1,300 feet in length. This force main will discharge into Lift Station F7-6. A new 14-inch diameter HDPE force main will also be installed by horizontal directional drilling from Lift Station F7-6 along the south side of Veterans Memorial Boulevard to Lift Station F7-11, located along the Suburban Canal, approximately 5,000 feet in length. This force main will discharge into Lift Station F7-11.</p> <p>Linfield, Hunter &amp; Junius, Inc. is providing design phase engineering services for this project.</p> <p><b><u>Key Features Related to this Solicitation:</u></b> Sanitary Sewerage (Force Mains); Sewage Lift Station Design and Rehabilitation</p> <p><b><u>Key Personnel Participation:</u></b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Mark K. Annino, BSCE</p> 	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018 A	\$1,750,000	\$1,750,000

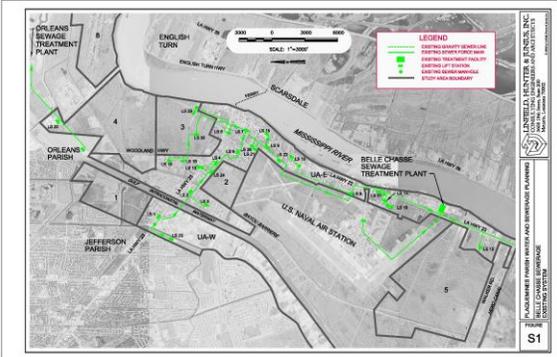
## TEC Professional Services Questionnaire

### PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Sanitary Sewerage System along LA Highway 23 from Belle Chasse Wastewater Treatment Plant to La Reussite Plaquemines Parish, LA</b></p> <p><b>Ken Dugas Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 (504) 934-6115</b></p> 	<p>This project consists of the installation of a new sewage force main along Louisiana Highway 23 to provide the backbone of a new sewage collection system on the West Bank of the Mississippi River in Plaquemines Parish from the Belle Chasse Wastewater Treatment Plant south to La Reussite. This sewer line will serve a rapidly developing area of Plaquemines Parish that is not currently serviced by public sewerage. Construction of a first phase of the project was recently constructed that included the installation of <b>12,000 linear feet of 12-inch diameter sewage force main</b> from the Belle Chasse Wastewater Treatment Plant to Oakville and included <b>one transfer lift station</b> in Oakville. Plans and specifications for the next phase of the project are complete and ready for bidding pending acquisition of required rights-of-way. This next phase extends the sewage force main along Highway 23 from Oakville to La Reussite and includes extensions along several side roads off of the highway. This next phase will include the installation of <b>11,000 linear feet of 10-inch diameter sewage force main, 7,700 linear feet of 8-inch diameter sewage force main, 12,500 linear feet of 6-inch diameter sewage force main, 11,600 linear feet of 4-inch diameter force main, 12,400 linear feet of gravity sewer line, 3 large transfer lift stations</b> along Highway 23, <b>11 minor lift stations</b> along side roads, two bores beneath Highway 23, <b>61 individual grinder pump stations</b> and connection of an estimated 216 residences to the proposed sewerage system. This next phase is being funded in part by the LCDBG Program.</p> <p>After construction of this project, the backbone of the sewerage system needed in the rapidly developing area of Plaquemines Parish extending from Oakville to La Reussite will be in place. Extension of sewers to existing residences will then follow.</p> <p>LH&amp;J is providing all engineering services required for the project, including preparation of a topographic and utility survey, preparation of plans and specifications, bid phase services, and construction phase services including resident inspection. Additional services provided by LH&amp;J include the preparation of Coastal Use Permit Applications and assisting Plaquemines Parish to obtain permits, utility crossing agreements and acquiring rights-of-way required for construction.</p> <p><b><u>Key Features Related to this Solicitation:</u></b> Sanitary Sewerage (Gravity Collection and Force Mains); Sewage Lift Stations</p> <p><b><u>Key Personnel Participation:</u></b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022 E	\$7,000,000	\$7,000,000



## TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Sewer Force Mains Belle Chasse Sewerage System Plaquemines Parish, LA</b></p> <p><b>Ken Dugas Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 (504) 934-6115</b></p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>The Belle Chasse Sewerage System was constructed over 50 years ago and consists of a series of gravity collection lines, sewage lift stations and force mains which collect and convey domestic wastewater to the local wastewater treatment plant. Over the years, the system has been expanded and modified to meet the demands of population growth in Belle Chasse. Historically, several larger lift stations in the Belle Chasse area have overflowed during wet weather events when the total pumping capacity of the contributory lift stations has exceeded the pumping capacity of the receiving lift stations. This problem was compounded because the main lift stations Apiggybacked@, that is, discharged directly into the next station downstream. As part of the long-term program to reduce these overflows, force mains are being re-routed so that main lift stations no longer Apiggyback@ and lift stations are being calibrated so that lift stations can pump into common force mains during wet weather events with main lift stations pumping directly to the local wastewater treatment plant.</p> <p>To date, approximately 27,000 linear feet of 16-inch and 24-inch diameter force main have been constructed. Main lift station capacities have been increased to provide for wet weather requirements and for future growth, and pumps at other smaller lift are being replaced to suit future hydraulic requirements.</p> <p>A hydraulic analysis of the entire Belle Chasse pumped system was recently performed to assess the system response to current operating conditions and to assess the system response to the above system improvements to identify lift station modifications required to suit future system hydraulics.</p> <p>Linfield, Hunter &amp; Junius, Inc. has provided complete engineering services including topographic surveys, design, bid phase, and construction phase services including resident inspection.</p> <p><b><u>Key Features Related to this Solicitation:</u></b> Sanitary Sewerage (Gravity Collection and Force Mains); Sewage Lift Stations</p> <p><b><u>Key Personnel Participation:</u></b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p> <div style="text-align: right; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$6,000,000	\$6,000,000

## TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Increase Pumping Capacity of Sewage Lift Station Nos. 4 and 7 Belle Chasse Sewerage System Plaquemines Parish, LA</b></p> <p><b>Ken Dugas, P.E. Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 (504) 934-6115</b></p> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 50%;"> <p>Lift Station Nos. 4 and 7 are two main lift stations that service the Belle Chasse area. These lift stations collect sewage from contributory gravity collection lines serving adjacent neighborhoods and sewage that is pumped directly from several smaller lift stations. At times the gravity systems contributory to these lift stations would overflow during wet weather events when the flows from the contributory gravity systems and the total pumping capacity of the contributory lift stations exceeded the pumping capacity of Lift Station Nos. 4 and 7. To reduce the occurrence of these overflows, discharge force mains were re-routed and the capacities of these lift stations were increased.</p> <p>At Lift Station No. 4, a new 24-inch diameter discharge force main was constructed so that the lift station pumps directly to the local treatment plant and the pumping capacity of the lift station was increased from approximately 1,200 gallons per minute to 2,400 gallons per minute. Lift Station No. 7 formerly pumped through an old 14-inch diameter force main that was common to several other lift stations. During wet weather these lift stations and Lift Station No. 7 pumped against one another and reduced flows that each lift station could pump. A new 16-inch diameter discharge force main was constructed for dedicated use by Lift Station No. 7, and the pumping capacity of Lift Station No.7 was increased from approximately 1,300 gallons per minute to 3,000 gallons per minute.</p> <p>Linfield, Hunter &amp; Junius, Inc. provided complete engineering services including topographic surveys, design, bid phase, and construction phase services including resident inspection for work at both lift stations.</p> <p><b>Key Features Related to this Solicitation:</b> Sanitary Sewerage (Force Mains); Sewage Lift Stations; Topographic Surveying</p> <p><b>Key Personnel Participation:</b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p> </div> </div> <div style="margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
2014 A	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$3,400,000	\$3,400,000

## TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Expansion &amp; Rehab of the Belle Chasse WWTP</b>  <b>Plaquemines Parish, LA</b></p> <p><b>Ken Dugas, P.E.</b>  <b>Plaquemines Parish Government</b>  <b>8056 Highway 23</b>  <b>Belle Chasse, LA 70037</b>  <b>(504) 934-6115</b></p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>The Belle Chasse Wastewater Treatment Plant was constructed over 50 years ago as a primary sedimentation and digestion plant. The plant was expanded in the mid 1980's to provide secondary treatment. After this expansion, influent was treated in the following order: aeration and grit removal, comminution and bar screening, primary sedimentation, bio-tower filtration, secondary sedimentation, chlorination and pumping to the Mississippi River. Primary sludge was digested, dried via a belt filter press and sludge drying beds and disposed of in landfills. After this last expansion, the plant treatment capacity was 3.0 million gallons per day (MGD) with a peak hydraulic capacity of 6.0 MGD. Since this expansion, there has been considerable growth in the Belle Chasse area. During wet weather events, the plant was operating at or above its peak hydraulic capacity, often overflowing at the plant headworks. To reduce overflows and to provide for continuing growth in the Belle Chasse area, the plant was again expanded and existing facilities were rehabilitated.</p> <p>Prior to design of the plant expansion and rehabilitation, an assessment of the existing plant was performed. This assessment included an evaluation of several alternatives to increase treatment capacity and peak hydraulic capacity and included a 20-year phasing program to implement plant improvements. Based upon this feasibility assessment, the plant expansion would increase plant treatment capacity to 6.0 MGD and increase plant peak hydraulic capacity to 12.0 MGD.</p> <p>Plant expansion consisted of a new headworks with mechanical bar screening and grit removal via a vortex grit chamber, a new 60-foot diameter primary clarifier, a new 55-foot diameter bio-tower, a new 85-foot diameter secondary clarifier and a new chlorine contact chamber with increased effluent pumping capacity to the Mississippi River. The existing belt filter press was replaced with a larger capacity belt filter press for additional sludge handling capacity. Plant rehabilitation included the replacement of the original primary clarifier equipment, replacement of bio-tower access stairs, the repair of deteriorated concrete at the existing primary clarifiers, the leveling and repair of the sludge drying bed walls and <b>rehabilitation of the influent lift station and trickling filter pump station.</b></p> <p>Linfield, Hunter &amp; Junius, Inc. provided complete engineering services including design, bid phase, and construction phase services including resident inspection for work at the plant.</p> <p><b>Key Features Related to this Solicitation:</b>  <b>Sewage Lift Stations;</b> Sanitary Sewerage (Gravity Collection and Force Mains)</p> <p><b>Key Personnel Participation:</b>  Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Mark K. Annino, BSCE</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;">    </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2013 A	\$9,000 (fee)	\$9,000 (fee)

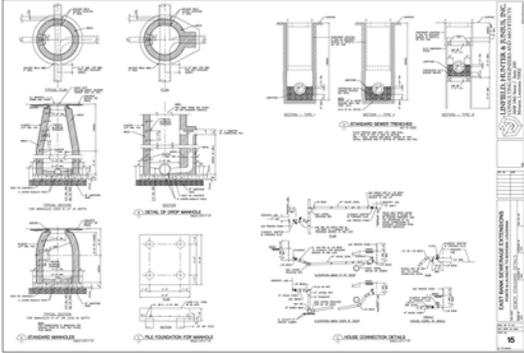
## TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Plaquemines Parish Water &amp; Sewerage Planning</b>  <b>Plaquemines Parish, LA</b></p> <p><b>Ken Dugas</b>  <b>Plaquemines Parish Government</b>  <b>8056 Highway 23</b>  <b>Belle Chasse, LA 70037</b>  <b>(504) 934-6115</b></p> <div style="text-align: center;">  </div>	<p>Portions of Plaquemines Parish are experiencing a rapid rate of growth at a time in which the Parish's existing sewerage and water systems are running at capacity, are aging, and during which public sewerage and water systems are being upgraded to provide improved water quality as required by more comprehensive and stricter sewerage and water regulations. LH&amp;J was retained to provide Parish Wide Water and Sewerage Planning to address these needs.</p> <p>LH&amp;J provided complete engineering services for growth projection, flow projections, assessment of existing systems, analysis of alternative improvements to provide for growth, setting of construction budgets and recommended improvements and projection of capital requirements for system expansion and rehabilitation over the next 20 years parish wide.</p> <p>Numerous sewerage improvements identified and recommended in the Planning study were subsequently funded for design and construction. These include the Expansion and Rehabilitation of the Belle Chasse Wastewater Treatment Plant, Re-Routing of Belle Chasse force mains, Increasing Pumping Capacity of Lift Station Nos. 4 and 7 and the Sanitary Sewerage Extension along Louisiana Highway 23 from the Belle Chasse Wastewater Treatment Plant to La Reussite</p> <p><b>Key Features Related to this Solicitation:</b>  Sanitary Sewerage (Gravity Collection and Force Mains); Sewage Lift Stations; Wastewater Treatment</p> <p><b>Key Personnel Participation:</b>  Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Mark K. Annino, BSCE</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2002 A	\$175,000 (fee)	\$175,000 (fee)

## TEC Professional Services Questionnaire

PROJECT NO.7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Rehabilitation of Sewage Lift Station Nos. 4 and 7 and Force Main Extension to Lift Station No. 8 Belle Chasse, LA</b></p> <p><b>Ken Dugas, P.E. Plaquemines Parish Government 8056 Highway 23-Ste 309 Belle Chasse, LA 70037 (504) 934-6115</b></p> <div style="text-align: center;">  </div>	<p>The Belle Chasse Sewerage System was constructed over 50 years ago. Over the years, Lift Station Nos. 4 and 7 deteriorated heavily. These are two main lift stations in the system that collect sewage from contributory gravity collection lines serving adjacent neighborhoods and sewage that is pumped directly from several smaller lift stations. This project included the rehabilitation of Lift Station Nos. 4 and 7 including the structural rehabilitation of the lift station wet wells.</p> <p>This structural rehabilitation consisted of the installation of new reinforcing steel, placing of new concrete/gunnite cover over the reinforcing steel and the installation of a protective coating over the repaired areas. As Lift Station Nos. 4 and 7 are both major lift stations in the Belle Chasse Sewerage System, continuous operation of both lift stations during rehabilitation was critical. The project included the construction of new bypass wet wells at each lift station site that allowed for full temporary bypass pumping while the lift stations were rehabilitated.</p> <p>The project also included the construction of approximately 5,800 linear feet of 24-inch diameter HDPE force main to Lift Station No. 8 to extend a force main that originally discharged into a gravity manhole.</p> <p>Linfield, Hunter &amp; Junius, Inc. provided complete engineering services including topographic surveys, design, bid phase, and construction phase services including resident inspection for work at both lift stations.</p> <p><b>Key Features Related to this Solicitation:</b> Sanitary Sewerage (Force Mains); Sewage Lift Stations; Topographic Surveying</p> <p><b>Key Personnel Participation:</b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2002 A	\$740,000	\$740,000

## TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Sewer Improvements - East Bank Pointe-a-la-Hache to Bohemia Plaquemines Parish, LA</b></p> <p><b>Ken Dugas, P.E. 8056 Highway 23 Belle Chasse, LA 70037 (504) 934-6115</b></p> <div style="text-align: center;">  </div>	<p>This project consisted of the installation of a combination gravity/low pressure sewerage system in Plaquemines Parish on the East Bank of the Mississippi River from Pointe-A-La-Hache to Bohemia. This area was not previously serviced by public sewerage. Residents were serviced by septic tanks and individual sewage package treatment plants before construction of the project. The scope of this project included the connection of residences to the proposed sewerage system. This project was funded in part by the LCDBG Program.</p> <div style="text-align: right;">  </div> <p>The project included installation of <b>8,000 linear feet of gravity sewer, 10,000 linear feet of sewer forcemain, 14,000 linear feet of sewer house connection piping, 40 manholes, 3 sewage lift stations, 20 individual grinder pump stations</b> and connection of house connection piping to 130 existing houses or structures.</p> <p>LH&amp;J provided all engineering services required for the project, including preparation of a topographic and utility survey, preparation of plans and specifications, bid phase services, and construction phase services including resident inspection. Additional services provided by LH&amp;J included the preparation the LCDBG Application for the project, preparation of a Coastal Use Permit Application, and assisting the Plaquemines Parish Government in conducting public meetings, obtaining permits and acquiring rights-of-way required for construction.</p> <p><b>Key Features Related to this Solicitation:</b> Sanitary Sewerage Design (Gravity Collection and Force Mains); Sewage Lift Station Design; Topographic Surveying</p> <p><b>Key Personnel Participation:</b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004 A	\$1,073,000	\$1,073,000

## TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Kenner Wastewater Treatment Plant No. 3</b> Kenner, LA</p> <p><b>Tom Schreiner</b> Deputy CAO Public Works &amp; Capital Projects Director of Public Works City of Kenner 1610 Reverend Richard Wilson Drive Kenner, Louisiana 70062 (504) 468-7515</p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>Kenner Wastewater Treatment Plant No. 3 (WWTP 3) is the only wastewater treatment plant servicing the City of Kenner. The WWTP 3 serves a population of approximately 67,500. WWTP 3 is located directly north of I-10 West just east of the Jefferson Parish/ St. Charles Parish Parish Line. The City of Kenner is presently upgrading its sewage collection system, which includes increasing the pumping capacity of several major lift stations that pump directly to the WWTP 3.</p> <p>To accommodate the increased pumping capacity of these major lift stations and to reduce the occurrence of overflows during wet weather events, the City of Kenner chose to increase the hydraulic capacity of the WWTP 3 from 42 MGD to 62 MGD by constructing a new headworks with mechanical bar screening and grit removal capabilities that will collect all of the plant influent, two new 85-foot diameter final clarifiers and a new effluent pump station. LH&amp;J was responsible for the design of the new headworks and clarifiers.</p> <p>The WWTP 3 is a complex plant consisting of unit processes that were constructed over the past 50 years. Integration of the proposed improvements introduces a number of operational challenges. Prior to design of the proposed improvements, LH&amp;J performed a detailed assessment of the WWTP 3 and of the planned improvements to evaluate the treatment and hydraulic performance of the plant both before and after the proposed improvements are made. The assessment was also used to evaluate plant operability to assist the plant operators to enhance their operation of the plant over the range of flow conditions.</p> <p><b><u>Key Features Related to this Solicitation:</u></b> Wastewater Treatment</p> <p><b><u>Key Personnel Participation:</u></b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 A	\$15,500,000	\$15,500,000

## TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Sewage Collection System Naval Air Station Housing Belle Chasse, LA</b></p> <p><b>Roy Langridge Project Manager Broadmoor 2740 N. Arnoult Road Metairie, Louisiana 70002 (504) 885-5401</b></p>	<p>Linfield, Hunter &amp; Junius, Inc. provided complete engineering services for the installation of a new sewerage collection system to service 500 new residential housing units and a new school on the Naval Air Station facility in Belle Chasse, Louisiana. The design included a hydraulic analysis of the existing Navy sewage collection system. This hydraulic analysis was utilized to design modifications to the existing sewage collection system to handle the new development and to successfully integrate the new system into the existing Belle Chasse Sewerage System. Design of the new sewerage system required extensive coordination between several entities including the Prime Consultant, Developer, Navy, Plaquemines Parish Government and Operators of the Belle Chasse Sewerage System.</p> <p>The project included the installation of 11,000 linear feet of gravity wastewater collection lines, 5,000 linear feet of sewage force main, <b>3 new sewage pumping stations</b>, and <b>upgrade and rehabilitation of an existing sewage pumping station</b>.</p> <p>The new Navy sewage collection system discharges into the Belle Chasse Sewerage System. LH&amp;J performed extensive hydraulic analysis of the Belle Chasse Sewerage System to determine the impact of the additional Navy sewage flows. LH&amp;J designed over 2 miles of sewage force main and <b>sewage lift station modifications</b> to provide sufficient capacity for the new Navy sewage flows and to provide for future residential development in the Belle Chasse area.</p> <p><b>Key Features Related to this Solicitation:</b> Sanitary Sewerage (Gravity Collection and Force Mains); <b>Sewage Lift Stations</b></p> <p><b>Key Personnel Participation:</b> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2001 A	\$4,500,000	\$4,500,000

**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		
2.		
3.		
4.		

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

**INTRODUCTION**



**LINFIELD, HUNTER & JUNIUS, INC. (LH&J)** is pleased to submit its qualifications for the **Jefferson Parish Government Rehabilitation of the Neyrey & Veterans (F7-13) and Market & Suave (D4-7) Lift Stations** project as required by the advertisement. LH&J will provide surveying services and resident inspection services. LH&J and previous firms have been providing quality engineering and architectural services for over 55 years. As the design engineering consultant for numerous previous sewer lift station projects, LH&J is well postured to provide Jefferson Parish with a team of highly experienced and extremely capable engineers, land surveyors, and other design professionals who are intimately familiar with the critical design and construction considerations that are unique to this very important project. Our past experience gives us the knowledge and understanding of the needs for this project, in particular sewer lift station design and rehabilitation. This along with our extensive experience in civil engineering design puts LH&J in the advantageous position of being able to dive straight into the project without a learning curve. The professional TEAM selected was chosen because of their **Exceptional Qualifications** in their respective fields of expertise and because of the extensive collective experience working on sewer lift station projects.

We offer a very compact team of local professionals with specialized experience specific to the scope of work required by this solicitation. With all of the work being performed at the offices of LH&J and our subconsultants locally, and with our past experience working together on similar projects, we believe that there will be seamless coordination and interaction between team members. Furthermore, LH&J's in-house land surveyors will be prioritized to this project to ensure that field survey data is

## TEC Professional Services Questionnaire

rapidly obtained and furnished to our design team. Also, any requirements to obtain supplemental data as the project progresses will be quickly addressed to avoid delays.

After Hurricane Katrina, the firm re-established operations within 2 days. We were probably the first engineering firm to re-establish operations in Metairie. Since Katrina we have significantly increased our staffing levels. Within the past 15 years the firm has designed, overseen, and managed over **\$3.5 Billion** in construction. Many of these projects have been completed or are near completion including several sewer projects.

### RELEVANT TO THIS PROJECT

LH&J has **unparalleled** lift station experience in the Metropolitan New Orleans area. Our proposed key personnel for this project have well over **150** cumulative years of experience in all facets of lift station design and construction administration, including new lift stations, upgrading of existing lift station capacities and repair and rehabilitation of existing lift stations. Our ongoing work rehabilitating and upgrading lift stations in the Belle Chasse area has led to a number of innovative designs, wherein lift station capacities have been systematically increased by a combination of pump replacement and rearrangement of discharge force mains to produce a more hydraulically efficient system. **Recent lift station projects** include the N. Hullen and Veterans/Edenborn and Veterans Force Main Extension with Lift Station Improvements in Jefferson Parish (currently in design), the Increase Pumping Capacity of Lift Station Nos. 4 and 7 in Plaquemines Parish (recently completed) and the Sanitary Sewerage System along LA Highway 23 in Plaquemines Parish (first phase recently completed, second phase in design). See Section L for additional details for our most recent similar lift station projects.

**Our team clearly has all the experience and training necessary to provide all the services necessary for the Rehabilitation of the Neyrey & Veterans (F7-13) and Market & Suave (D4-7) Lift Stations project.**

### Mechanical and Electrical Engineering (Huseman & Associates, LLC)



HUSEMAN  
& Associates

**Subcontractor: Huseman & Associates, LLC (H&A)** is a well-established MEP engineering firm, providing its clients with engineering and design services that bring together innovation, sustainability and cost effectiveness to create solutions tailored to the specific needs of each project. Founded in 2005, the firm provides comprehensive engineering services in electrical, mechanical, plumbing, fire protection, and fire alarm design and construction review for the medical, commercial, institutional, light industrial, and government agency sectors.

Within its staff, H&A has certified LEED AP personnel, professional M&E engineers and highly experienced MEP designers as well as admin assistants.

The firm prides itself on staying at the forefront of new technology both for the design process and the application of new concepts into facilities' design, maintenance and sustainability. H&A was an early adopter of several energy saving techniques, such as daylight harvesting, and chilled water temperature reset, and designed its first LEED certified (Gold) building in 2008. H&A has been recognized by the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE), at both the local and regional level, with multiple technology awards for our designs.

Over the past several years, six H&A projects (four new construction and two renovation projects) have been awarded ASHRAE Regional Technical Awards. To receive these awards,

## TEC Professional Services Questionnaire

projects are judged on Energy Efficiency, Indoor Air Quality, Innovation, Operation & Maintenance, Cost Effectiveness and Environmental Impacts. Additionally, H&A was recognized as one of the City's BEST PLACES TO WORK for 2 years; which we feel is partly attributable to the close-knit relationship between our electrical and mechanical departments.

H&A has recently received LEED certification for the following projects:

- Ochsner High Grove Medical Office Building & Hospital – Baton Rouge
- Tulane University – J Bennett Johnston Labs Renovation – LEED Gold
- Tulane University - Barbara Greenbaum Residence Hall – LEED Gold
- Tulane University Medical Center – multiple projects
- Paul Habans Recovery School - LEED Silver
- Lafourche Parish Correctional Facility – expecting LEED GOLD

H&A has served as the lead design engineering firm on numerous high-profile projects throughout the region, including many projects for Tulane University, LSU, and the Parishes of Orleans, Jefferson, and St. Charles, among others. Our staff has worked on hundreds of renovation and new construction projects throughout the City of New Orleans; which has allowed us to have a better understanding of client expectations, phasing and procedures for these types of projects. The majority of our renovation projects have been performed while occupation of the building has remained constant.

The firm's technical staff is fully trained in the use of new and upgraded software programs and tools. Specific design resources available to the design team include: Revit MEP, AutoCAD, Visual Lighting, Trane Trace 700, SKM Power Tools, and USGBC's LEED Online. H&A also has an extensive library of reference codes, standards, technology and MEP design resources.

### Geotechnical Engineering (Eustis Engineering, LLC)



#### **Subcontractor: Eustis Engineering, L.L.C. (Eustis)**

Eustis has been the premier geotechnical engineering consultant in southeast Louisiana since 1946. They are a long time provider of professional geotechnical engineering services in the New Orleans region and no other local or regional geotechnical engineering firm exceeds Eustis's qualifications. Eustis has an extensive level of demonstrated experience and expertise that is necessary to properly design Coastal Projects. They are highly skilled and adept at performing the complex analyses that formulate the basis of a sound design. Eustis has provided the geotechnical services listed in the Solicitation directly to LH&J on numerous projects in the past such as the East of Harvey Canal Floodwall, the 17<sup>th</sup> Street Canal Breach Repairs and Closure Structure, LPV 105, LPV 106, LPV 107, LPV 109.02c, the entire \$200 million Orleans Storm Proofing Program, the NOV-NF-W-04 Levee & Floodwalls and France Road reconstruction and floodgate to name a few.

The staffs of professionals at LH&J and Eustis have a long and extensive history of working together on major coastal engineering projects and are highly accustomed to working together to solve geotechnical related challenges in a timely, efficient and cost effective manner. Eustis has extensive materials testing staff and facilities, both field and office, and their laboratory is validated by the USACE Materials Testing Center in Vicksburg, MS and is also accredited by AASHTO and ASTM.

#### **Eustis at a Glance**

- Main office in Metairie, LA
- Extensive background in the Geology and Geotechnical considerations throughout Jefferson Parish
- 77 total staff all domiciled in Louisiana

## TEC Professional Services Questionnaire

### **A. MINIMUM REQUIREMENTS FOR SELECTION**

The persons or firm submitting a Statement of Qualifications shall have the following minimum qualifications:

1. The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered professional engineer in the State of Louisiana.

**Nathan J. Junius, P.E., P.L.S. has over 20 years of design experience in Civil Engineering projects including major drainage analysis and design, culvert design, roadway design, traffic design and project management.**

2. The persons or firms under consideration shall have a professional in charge of the Project who is a licensed, registered professional engineer in the State of Louisiana with a minimum of five (5) years' experience.

**Our proposed Professional In Charge, Robert E. Nockton, P.E. has over 27 years of design experience in Civil Engineering projects including drainage studies, planning and analysis, drainage design, culvert design, canal and pumping station design, roadway design, sewerage and waterline design and project management.**

3. The persons or firms under consideration shall have one (1) employee who is a registered professional engineer in the State of Louisiana in the applicable discipline involved. A subcontractor may meet this requirement only if the advertised Project involves more than one discipline.

**Nathan J. Junius, P.E., P.L.S. is a Professional Land Surveyor registered in Louisiana with more than nineteen (20) years of experience in conducting topographic surveys.**

**William J. Muller, P.L.S. is a Professional Land Surveyor registered in Louisiana with more than thirty (30) years of experience in conducting topographic surveys.**

### **B. EVALUATION CRITERIA**

#### **B.1 Professional Training and Experience**

Our Team is well qualified to provide the services required for this project. We anticipate that the following services will be required, and we have the complete team and will add to the Team as directed by the Parish to provide all these services.

- ✓ Sewerage and Civil Engineering
- ✓ Land Surveying
- ✓ Resident Inspection
- ✓ Traffic Engineering
- ✓ Mechanical and Electrical Engineering
- ✓ Geotechnical Engineering

#### **Sewerage and Civil Engineering (Linfield, Hunter & Junius, Inc.)**

A summary of Linfield, Hunter & Junius, Inc.'s professional training and experience in the areas of sewerage includes:

- ✓ Professional staff with well over 150 cumulative years of experience in sewerage projects (see Items K and L).
- ✓ Firm background of over 40 years of sewerage experience.

## TEC Professional Services Questionnaire

- ✓ A proven track record of completed sewerage projects from feasibility studies following through to completed construction.
- ✓ Recent completion of successful sewerage projects which are similar to the scope of work of your current project.
- ✓ A working knowledge of state-of-the-art computerized methods and procedures for studies and design.

Linfield, Hunter & Junius, Inc. has a staff of engineers with significant experience in the discipline of sewerage engineering. The following list highlights this experience:

Robert E. Nockton, P.E./Project Manager – 27 years of sewerage design experience

Luis F. Sosa, P.E./Civil Engineer – Over 30 years of sewerage design experience

Mark K. Annino/, BSCE – 27 years of sewerage design experience

### Land Surveying (Linfield, Hunter & Junius, Inc.)

Linfield, Hunter & Junius, Inc. (LH&J) employs **two full time Registered Professional Land Surveyors** and maintains **four fully staffed survey field crews** who are equipped with modern vehicles and state of the art survey equipment for both conventional and GPS surveying. Our crews have worked in difficult terrain conditions, including coastal marshes, and are equipped for and experienced at performing topographic, boundary, topographic bathymetric, right-of-way, control, and hydrographic surveys as well as performing bench leveling, construction layout surveys and settlement monitoring surveys. Our CADD Drafters are highly experienced in working with both Bentley MicroStation and Autodesk AutoCAD as required. LH&J also utilizes add in modules such as ArcView, Civilsoft and InRoads to enhance the efficiency of data processing and project deliverables. We are competent at working with any vertical and horizontal datum as specified by the Client's requirements. We utilize computer based survey data processing software to achieve maximum efficiency and ensure rapid and reliable deliverables for our Clients. Since placing an increased emphasis on land surveying services, the firm has completed over \$1,000,000 in land surveys for in-house designs and others.

#### **Public**

- Jefferson Parish Department of Public Works
- LA Department of Transportation and Development
- Audubon Park, New Orleans
- U.S. Army Corps of Engineers
- City of New Orleans Department of Public Works
- Sewerage and Water Board of New Orleans
- Plaquemines Parish Government
- Pontchartrain Levee District
- St. Tammany School Board
- City of Hammond
- Tangipahoa Parish
- City of Baton Rouge
- University of New Orleans

#### **Private**

- CVS/Pharmacies – hundreds
- Dillard University
- Tulane University
- Children's Hospital
- Woodward Design+Build
- Friends of City Park, New Orleans, LA
- Dollar General Stores – over 50
- Exxon/Mobile Corporation
- New Orleans Park-N-Fly
- Multiple design consultants statewide

#### **Registered Surveyors**

Nathan J. Junius, P.E., P.L.S.

BSCE, MSCE

20 years experience

William J. Muller, P.L.S.

30 + years experience

## TEC Professional Services Questionnaire

Nathan J. Junius, P.E., P.L.S. is a licensed surveyor and heads up Linfield, Hunter & Junius, Inc. surveying. In addition to extensive experience as a civil engineer, Mr. Junius has extensive experience in all aspects of land surveying.

William J. Muller, P.L.S. has extensive experience in all aspects of land surveying throughout Louisiana. He worked in the offshore industry spotting well locations, run field crews for numerous Louisiana Power and Light topographic and boundary surveys, analyzed thousands of boundary surveys, and supervised multiple field crews, draftsmen and land surveys.

Examination of the attached resumes project descriptions in Item K demonstrates that the firm has the professional training and experience to provide complete land surveying services.

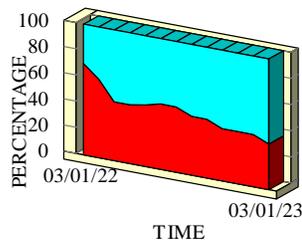
### **B.2 Capacity for Timely Completion of Newly Assigned Work**

Linfield, Hunter & Junius, Inc. (LH&J) has been in business as a provider of quality engineering services in Southeast Louisiana for over 50 years. After Hurricane Katrina, the firm reestablished operations within 2 days. We were probably the first engineering firm to re-establish operations in Metairie. Since Katrina we have increased our staffing levels including engineers. Within the past 5 years the firm has designed, overseen, and managed over \$1.5 Billion in construction. Many of these projects have been completed or are near completion including the design of the \$160 Million Sewerage and Water Board Pumping Station Storm Proofing Project. Therefore, we have a large engineering team available to jump on this project. This project can be easily absorbed by the firm, as we will have substantial reserve capacity to meet any reasonable project schedule.

Our current and projected firm capacity shown below indicates a 40% capacity shortfall by August 2022. The 15% capacity anticipated for sewer projects would be very welcome and needed to maintain our current staff levels.

#### **Linfield, Hunter & Junius, Inc.**

*Firm Capacity*



■ Firm Workload ■ Excess Capacity

Fast turnaround time is an excellent indication of our ability to respond to the needs of our clients.

**Linfield, Hunter & Junius, Inc. has a well-deserved reputation for completing public projects on time; in fact, our firm often completes designs awarded to several firms at the same time before other firms' designs have been completed. Recent examples of this include:**

- **17<sup>th</sup> Street Canal Widening – Hoey's Canal to Airline Drive**

The schedule for this project was accelerated to accommodate aggressive grant funding deadlines. Linfield, Hunter & Junius, Inc. completed design sufficiently ahead of schedule such that the project was bid and construction begun several weeks before the grant deadline date for construction.

## TEC Professional Services Questionnaire

- **Hoey's Canal Bypass**  
Linfield, Hunter & Junius, Inc. completed design of the first phase of this project ahead of schedule to meet aggressive grant funding deadlines.
- **Alcee Fortier/Pressburg Streets**  
This project was designed by Linfield, Hunter & Junius, Inc. and constructed ahead of similarly-sized projects awarded to other firms at the same time.
- **Earhart Boulevard**  
Five firms were awarded similarly-sized parts of this project; Linfield, Hunter & Junius, Inc. received the last of these awards yet completed its design first.
- **Leon C. Simon and Gentilly Road Bridges**  
Of the eight bridge projects awarded to various firms, Linfield, Hunter & Junius, Inc.'s two bridge projects were the first designs completed, and construction of these bridges was completed first.
- **Hollygrove Area Drainage Project**  
This may be the largest single SELA drainage project. The design was completed on time under a very aggressive schedule and the firm was given the **USACE's highest rating of "EXCELLENT" including an "OUTSTANDING" rating** for the "Management and Adherence to Schedules" category. Construction is complete.
- **17<sup>th</sup> St. Canal Levee Breach Repairs, Interim Closure Structure, and Interim Pumping System**  
This was among the most visible and important public projects in New Orleans and Jefferson Parish subsequent to Hurricane Katrina. The design was completed under a very aggressive fast track schedule while the firm reestablished operations and restored its flooded offices in Metairie. More than \$200 Million dollars of improvements were designed within one year. Gates and temporary drainage pumps were in place and operational in time for the 2006 hurricane season less than one year after Hurricane Katrina. The Corps of Engineers issued a **Certificate of Appreciation to the firm for Outstanding Service** in providing engineering support in Southeast Louisiana subsequent to Hurricane Katrina. **The firm received a National Honor Award in 2009** from the American Council of Engineering Companies for design of the 17<sup>th</sup> St. Canal Interim Closure Structure.

### **B.3 Location of Principal Office Where Work Will Be Performed**

**Linfield, Hunter & Junius, Inc. is located in Jefferson Parish at 3608 18<sup>th</sup> Street, Metairie, LA 70002. We are centrally located in the parish, and all work will be performed from this office.**

## TEC Professional Services Questionnaire



### **B.4 Status of Current Litigation with Jefferson Parish**

Linfield, Hunter & Junius, Inc. has no previous or on-going litigation with Jefferson Parish.

### **B.5 Prior Successful Completion of Projects of the Type and Nature of Routine Engineering Services, as defined, for Which Firm Has Provided Verifiable References**

Linfield, Hunter & Junius, Inc. has a staff of engineers with significant experience providing the professional services required for this project. **Examination of the Resumes in Item K and the Project Descriptions in Item L demonstrates the extensive experience of our staff** in providing the services required for this project. Our team has a proven track record of completed major projects from feasibility studies following through to completed construction, and has recently completed a number of successful major sewer projects which are similar to the scope of work of your current project and in the same geographical area.

**LH&J professionals are licensed to practice civil engineering, environmental engineering, structural engineering, surveying, and architecture, and are nationally certified.** As design professionals, the LH&J staff members are active in professional organizations and take advantage of continuing education opportunities. Company design professionals attend seminars on the latest in civil, environmental, structural, and architectural design, traffic and surveying, code issues and applications, regulatory matters, materials, Total Quality Management (TQM), project management, and business management.

**The management staff of Linfield, Hunter & Junius, Inc. have been recognized by their peers for their professionalism, expertise, and leadership.** The staff members are actively involved in professional associations, and often have served as President, Vice President or Committee Chairmen for these associations.

### **B.6 Size of Firm –**

**Linfield, Hunter & Junius, Inc. employs thirty-seven (37) individuals, as shown in Item E above. The size of our firm is ideal for projects such as the proposed project because:**

- ✓ **The firm is large enough that it can absorb projects of the size of the proposed project and not become overburdened by them.**
- ✓ **The firm is small enough to be nimble and responsive to the client.**
- ✓ **The management structure is not multi-layered, which facilitates resolution of issues that could otherwise slow down a project.**

## TEC Professional Services Questionnaire

### **B.7 Past Performance by Person or Firm on Parish Contracts**

The firm received its first Jefferson Parish contract in 1991, and to date has received the following engineering projects:

- ✓ N. Hullen and Veterans / Edenborn and Veterans Force Main Extension with Lift Station Improvements – COMPLETED
- ✓ Canal Street Improvements – COMPLETED
- ✓ Widening and Deepening of the 17th Street Canal – COMPLETED
- ✓ FEMA Submerged Road Program District 5 Asphalt – COMPLETED
- ✓ Cuddihy Drive and Woodvine Avenue Drainage Improvements - COMPLETED
- ✓ Livingston Place East and West Drainage Improvements - COMPLETED
- ✓ Russell Street Drainage Improvements - COMPLETED
- ✓ Geisenheimer Canal Improvements - COMPLETED
- ✓ Dakin St. Pump Station - COMPLETED
- ✓ Geisenheimer Basin Drainage Study - COMPLETED
- ✓ Hoey's Bypass Canal – Phase I - COMPLETED
- ✓ Hoey's Bypass Canal – Phase II - COMPLETED
- ✓ Hoey's Canal Drainage Improvements (Phase II and III) – Phase III-a - COMPLETED
- ✓ Hoey's Canal Drainage Improvements (Phase II and III) – Phase III-b - COMPLETED
- ✓ Hoey's Canal Drainage Improvements (Phase II and III) – Phase III-c – IN DESIGN
- ✓ Hoey's Basin PAC - COMPLETED
- ✓ Labarre Business Park Drainage Improvements – COMPLETED
- ✓ Woodlawn Drainage Improvements - COMPLETED
- ✓ Dakin Street Corridor – Phase I - COMPLETED
- ✓ Dakin Street Corridor – Phases II and III – IN DESIGN
- ✓ Traffic Engineering – ON AS-NEEDED BASIS

See Item L for additional details regarding work for Jefferson Parish for selected projects.

We have had repeat assignments from all of our public sector clients demonstrating our capabilities to perform at a high level, regardless of the project scope. To the best of our knowledge, **all public projects have been completed within the allotted design time and to the clients' satisfaction.** Fast turnaround time is an excellent indication of our ability to respond to the needs of our clients; **quality is attested to by the number of repeat public clients we have.** Throughout Linfield, Hunter & Junius, Inc.'s history we have maintained an excellent working relationship with each public client. This is a significant accomplishment of which we are very proud.

#### **Major continuing repeat public clients include:**

- ✓ Jefferson Parish since 1991 (31 years)
- ✓ The Port of New Orleans since 1971 (51 years)
- ✓ U.S. Army Corps of Engineers since 1973 (49 years)
- ✓ Plaquemines Parish Government since 1973 (49 years)
- ✓ City of New Orleans since 1974 (48 years)
- ✓ U.S. Navy, Southern Division since 1975 (47 years)
- ✓ Sewerage & Water Board of New Orleans since 1979 (43 years)
- ✓ Tangipahoa Parish since 2006 (16 years)

Below is a sampling of awards and commendations our projects have received:

- The New Orleans District of the Corps of Engineers gave Linfield, Hunter & Junius, Inc. a rating of “**Excellent**” for the \$38 million Hollygrove Area Drainage Improvements project).

TEC Professional Services Questionnaire

- The Vicksburg District of the Corps of Engineers recently formally rated the firm's performance as "**Highly Recommended**".
- A City of New Orleans department director recently told us (and others) that **Linfield, Hunter & Junius, Inc. should be used as the example for other consulting engineering firms to emulate.**
- The Board of Commissioners of the Port of New Orleans recently commended the firm's "**outstanding professional services**" in an emergency situation, which allowed the board "to receive bids and award a construction contract in record time" (see attached letters of recommendation).
- The Corps of Engineers issued a **Certificate of Appreciation to the firm for Outstanding Service** in providing engineering support in Southeast Louisiana subsequent to Hurricane Katrina.
- The firm received a **National Honor Award** from the American Council of Engineering Companies for design of the 17th St. Canal Interim Closure Structure in 2009.
- The firm received an **Award of Excellence** for the Harvey Floodwall Project in 2009.
- The **New Orleans Business Round Table commended the firm** for the Reconstruction of Tidewater Road in 2009;
- **ACI awarded an Engineering Excellence Award** to the firm for design of the Metairie Road Bridge Project in 2000.

Closing Statement

We are extremely interested in this solicitation.

Linfield, Hunter & Junius, Inc. has extensive experience in the design of sewerage improvement projects in Jefferson Parish and throughout the New Orleans Metropolitan Area.

Linfield, Hunter & Junius, Inc. has the capacity to easily absorb this project assignment.

Please give us your serious consideration.

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

Signature: \_\_\_\_\_

Printed Name: Nathan J. Junius, P.E., P.L.S.

Title: President

Date: June 30, 2022

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

Name: Linfield, Hunter & Junius, Inc.  
Public Address: 3608 18th Street, Suite 200 Metairie, LA 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000510	ACTIVE	05/23/1979	03/31/2023	Mr. Nathan John Junius # PE.0031843 - Active

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

Name: Linfield, Hunter & Junius, Inc.  
Public Address: 3608 18th Street, Suite 200 Metairie, LA 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000532	ACTIVE	06/15/2004	09/30/2022	Mr. Nathan John Junius # PLS.0004958 - Active

Print Close



9643 Brookline Avenue | Suite 121 | Baton Rouge, LA 70809-1433  
225-925-6291 | Fax 225-925-6292

## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

Rehabilitation to the Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations  
SOQ No. 22-028

**B. Firm Name & Address:**

**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:**

**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.**

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

<input type="checkbox"/> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	
<input type="checkbox"/> Professional Land Surveyors		<b>___ TOTAL</b>

**F. Is this submittal by a JOINT-VENTURE? Please check: YES                      NO**

**If marked "No" skip to Section I. If marked "yes" complete Sections G-H.**

## 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.  
N/A

2.  
N/A

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

**I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, 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. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A

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

  8

**TEC Professional Services Questionnaire**

**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:**

**Project Assignment:**

Project Manager

**Name of Firm with which associated:**

**Years' experience with this Firm:**

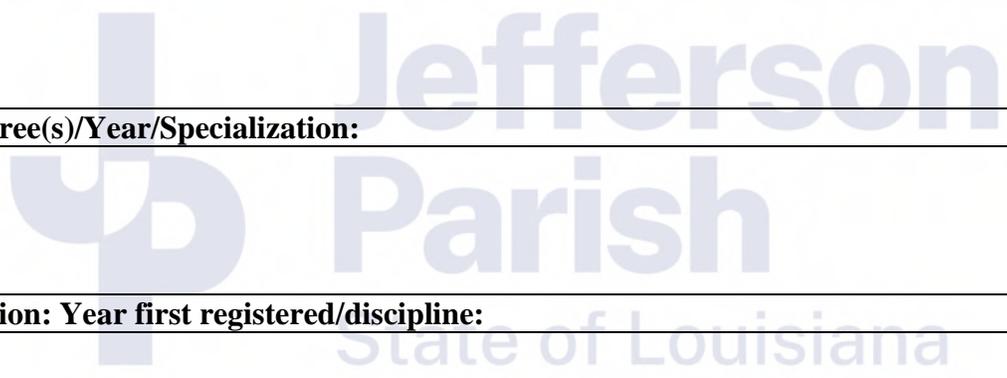
**Education: Degree(s)/Year/Specialization:**

**Active registration: Year first registered/discipline:**

**Other experience and qualifications relevant to the proposed Project:**

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Project Assignment:</b>
<b>Name of Firm with which associated:</b>
<b>Years' experience with this Firm:</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>



**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Project Assignment:</b>
<b>Name of Firm with which associated:</b>
<b>Years' experience with this Firm:</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Project Assignment:</b>
<b>Name of Firm with which associated:</b>
<b>Years' experience with this Firm:</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Project Assignment:</b>
<b>Name of Firm with which associated:</b>
<b>Years' experience with this Firm:</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>

**TEC Professional Services Questionnaire**

**L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.**

**PROJECT NO. 1**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

**PROJECT NO. 2**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
N/A	N/A	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
N/A	N/A	N/A

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

**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. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A
4. N/A	N/A	N/A

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

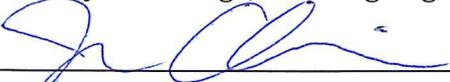
Huseman & Associates (H&A) is a local MEP consulting firm based in Metairie, LA. H&A understands how important the redevelopment of such a classic, historic, New Orleans structure will be to the City and Tulane and are excited to be part of the team.

H&A's core and founding philosophy is to provide constructible and sustainable buildings using a coordinated team approach with elegant solutions in the design and construction phases. H&A's key leadership consist of Jeffrey Huseman, Jamey Logrande, and Jason Chauvin. All three principals will be involved in the project for the duration of the project and Jeffrey and Jason are both Tulane engineering graduates.

H&A has completed over fifty lab and office renovation projects for Tulane in the last fifteen years.

H&A's highly skilled and experienced mechanical and electrical teams work together to bring their clients' vision into focus and reality optimizing state-of-the-art technology, functionality, and sustainability. H&A has received multiple ASHRAE technology awards and has designed several LEED silver and gold projects and a NetZero building. H&A performs all energy modeling in-house.

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

Signature:  Print Name: Jason Chauvin, P.E.  
 Title: Principal Date: June 29, 2022

**TEC Professional Services Questionnaire**

**A. Project Name and Advertisement Resolution Number:**

SOQ 22-028, Resolution No. 139102  
Rehabilitation to the Neyrey & Veterans (F7-13) and Market and Sauve (D4-7) Lift Stations

**B. Firm Name & Address:**

**Eustis Engineering L.L.C.**  
3011 28<sup>th</sup> 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](mailto: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](mailto:gsanders@eustiseng.com)

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

<u>  7  </u> Administrative	<u>      </u> Estimators	<u>      </u> Specification Writers
<u>      </u> Architects (Licensed)	<u>  2  </u> Geologists	<u>      </u> Structural Engineers
<u>      </u> Chemical Engineers	<u> 13  </u> Geotechnical Engineers	<u>      </u> Graduate Engineers
<u>      </u> Civil Engineers	<u>      </u> Interior Designers	<u>      </u> Project Managers
<u>      </u> Construction Inspectors	<u>      </u> Landscape Architects	<u>  10  </u> Clerical
<u>      </u> Ecologists	<u>      </u> Land Surveyor	<u>      </u> Grant/Funding Specialist
<u>      </u> Electrical Engineers	<u>      </u> Mechanical Engineers	<u>      </u> Sanitary Engineers
<u>  3  </u> Engineer Intern	<u>      </u> Environmental Engineers	<u>  31  </u> <b>Other</b>
<u>      </u> Professional Land Surveyors		<u>  66  </u> <b>TOTAL</b>

**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.**

**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 all subcontractors must submit a fully completed copy of this questionnaire, 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.

## TEC Professional Services Questionnaire

**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:**

Gwendolyn P. Sanders, P.E. / President and Project Principal

**Project Assignment:**

Project 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:**

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 engineering design and review processes.

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 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 design of foundations, and determining an appropriate foundation to support the structure under consideration.

In 2017, Mrs. Sanders served as Program Advisor for the Deep Foundations Institute's 42<sup>nd</sup> 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.

**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:**

Gwendolyn P. Sanders, P.E. / President and Project Principal

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

- Bellevue Country Estates - Phases IV, V, and VI, Pavements, Lake, and Sewer Lift Station, Paulina, Louisiana
- Jefferson Parish - Lift Station G8-2, Tolmas Drive and West Esplanade Avenue, Metairie, Louisiana
- Town of Henderson - Sewer Improvements, North of Interstate 10, Pump Station, Henderson, Louisiana



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Benjamin M. Cody, P.E. / Principal Engineer
<b>Project Assignment:</b>
Project Manager / Limited Liability Corporation Member
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
21
<b>Education: Degree(s)/Year/Specialization:</b>
Master of Science / 1999 / Civil Engineering Bachelor of Science / 1996 / Civil Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2002 / Civil Engineering Mississippi: 2007 / Engineering Texas: 2014 / Civil Engineering Florida: 2001 / Engineering Alabama: 2003 / Engineering Arkansas: 2014 / Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>From 1993 to 1994, Mr. Cody first worked with Eustis Engineering as a part-time laboratory soil technician while obtaining his undergraduate degree. After leaving Eustis Engineering in 1994, Mr. Cody worked as an engineering technician with the Sewerage &amp; Water Board of New Orleans and as a student laboratory coordinator at Tulane University's Department of Civil Engineering. Mr. Cody also assisted in teaching the introductory soil mechanics laboratory sessions. For more than a year, he then worked as a graduate research assistant at Tulane University while pursuing his Master's degree. At that time, he was responsible for the design, construction, and implementation of bench scale testing system in contaminated soil remediation.</p> <p>From 1998 until 2001, Mr. Cody worked for engineering firms in Florida. He performed such duties as soil evaluation and engineering recommendations for projects of varying sizes including multi-story structures, bridges, and roadways. He performed Phase I environmental site assessments as well as geotechnical sensor installation.</p> <p>In 2001, he returned to the New Orleans area and to Eustis Engineering as a Project Engineer. He now serves as a Principal Engineer with the firm. Since his return, Mr. Cody has performed a wide variety of engineering services including geotechnical project management, engineering design, engineering during construction, and dynamic pile testing. Private sector projects have varied from small private and commercial structures to multi-story high-rise structures, storage tanks, and other industrial facilities. Public projects have included roads and bridges, port facilities, government buildings and facilities, schools, and hurricane protection system improvements.</p> <p>Some of Mr. Cody's project experience, shown in this submittal, includes the following:</p> <ul style="list-style-type: none"><li>• Jefferson Parish - Jung and Falcone Lift Station Upgrades, New Sanitary Sewer Lift Station, Marrero, Louisiana</li><li>• City of Kenner - Lift Station No. 4102, Airline Highway and Minden Avenue, Jefferson Parish, Louisiana</li><li>• City of Kenner - Sewer Capital Improvement Program, Sewage Pumping Station Upgrade, 31<sup>st</sup> Street and Jasper Street Lift Station, Jefferson Parish, Louisiana</li></ul>

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
James J. Hance, P.E. / Senior Project Manager and Vice President (Finance)	
<b>Project Assignment:</b>	
Engineering Manager / Limited Liability Corporation Member	
<b>Name of Firm with which Associated:</b>	
<b>Eustis Engineering L.L.C.</b>	
<b>Years' Experience with This Firm:</b>	
19	
<b>Education: Degree(s)/Year/Specialization:</b>	
Master of Business Administration / 2011 / Business Administration Master of Science / 2003 / Civil Engineering (Geotechnical) Bachelor of Science / 1998 / Civil Engineering	
<b>Active Registration: Year First Registered/Discipline:</b>	
Louisiana: 2004 / Civil Engineering Mississippi: 2012 / Engineering Texas: 2010 / Civil Engineering	
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>	
<p>For three years, Mr. Hance was a Staff Engineer and Assistant Project Manager on numerous design and construction phase projects in the Washington, D.C. metropolitan area. His duties included management of field technicians who performed concrete, asphalt, and soils testing; and foundation construction observations of spread footings, mats, drilled shafts, augercast piles, driven steel H-piles, tiebacks, and underpinning piers.</p> <p>After relocating to Austin, Texas, to eventually pursue graduate studies in engineering, Mr. Hance acted as an Assistant Project Engineer for several design phase projects. These projects involved retention and stream bank stabilization applications. The types of systems designed included mechanically stabilized earth (MSE); single and multi-tiered walls and slopes utilizing geogrid reinforcement; and the use of geosynthetic materials in engineering applications such as erosion control solutions for open channel flow conditions.</p> <p>Mr. Hance was a graduate research assistant at the University of Texas at Austin where he published his Master's thesis in association with a Master of Science in Civil Engineering degree: <i>Assessment of Seafloor Slope Stability Based on a Database of Published Submarine Slope Failures</i>.</p> <p>Mr. Hance has spent the past 19 years with Eustis Engineering and has worked on many projects for Jefferson Parish. During his tenure at Eustis Engineering, he has earned four promotions: Project Engineer (July 2004), Project Manager (November 2007), Vice President (August 2011), and Chief Financial Officer (August 2012). Mr. Hance manages geotechnical services associated with commercial, industrial, environmental, and civil works projects. His responsibilities include managing a wide variety of design and construction phase projects (public and private sectors), management of staff engineers and development of their skill assets, developing scopes of work and appropriate fees</p>	

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

James J. Hance, P.E. / Senior Project Manager and Vice President (Finance)

for new projects with clients, participating in business development and marketing ventures, and negotiating contracts. Some of his experience relative to this submittal includes the following:

- Jefferson Parish - Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana
- Bellevue Country Estates - Phases IV, V, and VI, Pavements, Lake, and Sewer Lift Station, Paulina, Louisiana
- Jefferson Parish - Proposed Lift Station, Melody Drive and West Esplanade Avenue, Metairie, Louisiana



**PROJECT NO. 01**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Jefferson Parish</b>  <b>Jung and Falcone Lift Station Upgrades</b>  <b>New Sanitary Sewer Lift Station</b>  <b>Marrero, Louisiana</b>  <b>Eustis Engineering Project No. 23819</b> </p> <p align="center"> <b>Contact Information:</b>                      Jefferson Parish Through                      Principal Engineering, Inc.                      Suite 19                      1011 North Causeway Boulevard                      Mandeville, Louisiana 70471                      Jeneva Hinojosa, E.I. @ 985-624-5001                 </p>	<p>The new lift station was to consist of a fiberglass wet well and fiberglass valve pit. The wet well was to be approximately 6 feet in diameter and 18 feet in depth. The valve pit was to be approximately 6 feet in diameter and 8 feet in depth. Site improvements were to include a gravity sewer line installed approximately 12 feet below grade and a force main approximately 4 feet below grade.</p> <p>Our field investigation included the drilling of one soil boring to a depth of 80 feet below the existing ground surface using one of our truck-mounted rigs. Once in our laboratory, samples selected by our engineering staff were subjected to soil mechanics laboratory tests including visual classification, natural water content, unit weight, unconfined compression shear, and one-point unconsolidated undrained triaxial compression shear.</p> <p>Using these data, our staff performed engineering analyses and developed recommendations for the project documented in a report including:</p> <ul style="list-style-type: none"> <li>• recommendations for site preparation encompassing temporary and permanent drainage, dewatering and pressure relief of excavations, and ways to limit lateral movement;</li> <li>• methods for excavation, base preparation, and bedding associated with the sanitary gravity sewer line, wet well, and valve box;</li> <li>• estimates of lateral earth pressures;</li> <li>• recommendations for material placement and compaction of backfill for the force main and sanitary sewer line;</li> <li>• allowable soil bearing value recommendations for the wet well and valve box;</li> <li>• allowable pile load capacities, in compression and tension, for treated ASTM D25 quality timber; and</li> <li>• settlement estimates for both ground-supported and pile-supported project features.</li> </ul>	
<p align="center"><b>Completion Date</b> (Actual or Estimated)</p>	<p align="center"><b>Estimated Cost:</b></p>	
<p align="center">06/2018 (A)</p>	<p align="center"><b>Entire Project:</b></p> <p align="center">Unknown</p>	<p align="center"><b>Work for Which Firm Was Responsible:</b></p> <p align="center">\$4,900</p>

**PROJECT NO. 02**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**Cheval Point Subdivision  
Lift Station  
LA Highway 327  
Baton Rouge, Louisiana  
Eustis Engineering Project Nos.  
22953 and 23692**

**Contact Information:**  
Cheval Point Development, LLC  
Suite 3B  
9191 Siegen Lane  
Baton Rouge, Louisiana 70810  
Wesley Daniel @ 225-279-5410

Cheval Point Subdivision was a 57-acre site on LA Highway 327 approximately 175 feet landward of the left descending bank of the Mississippi River levee. Because of the site's location, several government agencies were included in the permitting process.

Eustis Engineering was requested by the owner to perform a technical review of the latest permit plans. Eustis Engineering was also asked to provide geotechnical design recommendations for a retaining structure at the proposed lift station, a dewatering well point system for construction of the lift station, and a permanent hydrostatic pressure relief system.

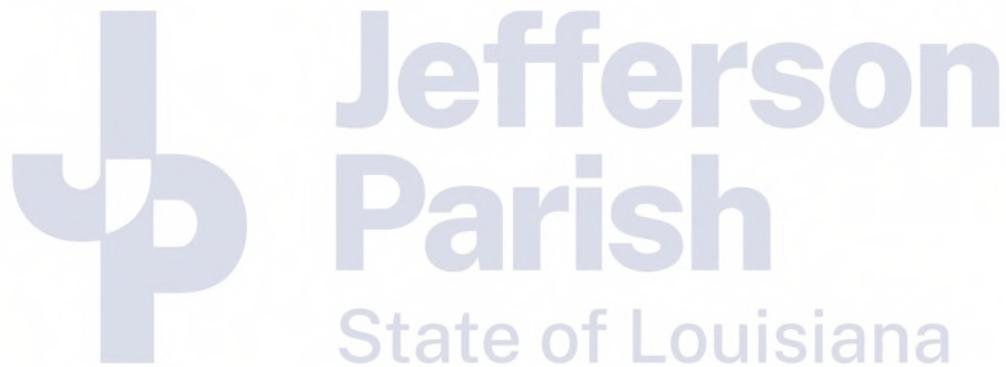
Our scope of services included cone penetration tests (CPTs) at the proposed location of a new sanitary sewer lift station to evaluate the subsoil conditions at the site. Two static CPTs were made by Eustis Engineering, one to 21 feet and one to 76 feet below the existing ground surface. During the CPTs, pore pressure dissipation tests were conducted at various depths by halting the penetration and measuring the decay of pore water pressure with time. Measurements of pore pressure decay were taken for a minimum of 1,000 seconds at each test depth. The rate of excess pore pressure dissipation was measured and plotted versus time to estimate the horizontal coefficient of consolidation.

Based on our interpretation of the CPT results as well as soil borings and CPT results from past projects performed by our firm and the U.S. Army Corps of Engineers for this project, we developed recommendations for construction of a retaining structure, recommendations for a permanent pressure relief system, and estimates for a temporary pressure relief system.

Following our technical review of the general civil engineer's recent permit plans, Eustis Engineering's recommendations and estimates were to be incorporated into the engineer's project plans for a formal resubmission to the Pontchartrain Levee District.

Eustis Engineering presented a conceptual plan for construction of the proposed lift station. This plan was based on lift station construction using a sheetpile retaining structure and providing hydrostatic pressure relief both during construction and for the design life of the completed lift station. Our conceptual plan was based on providing one of two methods of hydrostatic pressure relief by using either (1) a conventional active system of pressure relief wells or (2) a soil improvement solution by jet grouting. These conceptual solutions were based on design criteria to resist hydrostatic heave and seepage during and after construction.

PROJECT NO. 02		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
	<p>As part of the project, Eustis Engineering also installed two temporary "Casagrande" type, open standpipe piezometers, one within and one outside the retaining structure. The purpose of the piezometers was to monitor excess hydrostatic pressure of the transition and aquifer strata at the retaining structure.</p> <p>Eustis Engineering remained on site during construction providing construction oversight associated with the lift station.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
04/2018 (A)	Unknown	\$63,400



**PROJECT NO. 03**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Bellevue Country Estates                      Phases IV, V, and VI                      Pavements, Lake, and Sewer Lift Station                      Paulina, Louisiana                      Eustis Engineering Project No. 23451</b> </p> <p align="center"> <b>Contact Information:</b>                      Landcraft Homes, L.L.C.                      Post Office Box 2470                      LaPlace, Louisiana 70069                      Joseph M. Scontrino III @ 985-651-3007                 </p>	<p>Bellevue Country Estates in Paulina, Louisiana, was built in phases in a relatively level sugarcane field that included drainage ditches and an access road. Phases IV, V, and VI of the 81-lot development included the construction of nearly 4,000 feet of roadway pavements, a 7-ft deep lake, and a 16-ft deep sewer lift station. The lift station was to consist of a 6-ft diameter wet well with an invert located approximately 15 feet below the ground surface and the bottom slab at 16 feet. The lift station would be constructed using 6-ft diameter reinforced concrete pipe (weighing approximately 1,850 lb/lf).</p> <p>When our personnel arrived on site, they discovered standing water and soft ground conditions. After performing seven auger borings, we received authorization from the owner to use a track mounted rig instead of the planned truck mounted rig. We drilled three undisturbed soil test borings and the eighth auger boring. One soil boring was drilled to a depth of 60 feet near the location of the proposed sewer lift station, and the other two borings were drilled to depths of 15 feet each near the proposed lake. Auger borings were drilled to depths of 8 feet along the proposed roadway alignment.</p> <p>Soil mechanics laboratory tests were performed on samples collected in the field. In conjunction with the soil borings and laboratory test results, engineering analyses were made to determine recommendations regarding the suitability of excavated soil from the proposed lake site for use in other construction areas; the need for an adequate liner along the bottom and side slopes of the lake; the need for erosion control after the lake's construction; general site preparation including drainage during and after construction; subgrade preparation and stabilization for proposed roadways; select backfill and structural fill and its compaction; pavement recommendations for flexible and rigid pavements; allowable soil bearing values for the sewer lift station; allowable pile load capacities, in compression and tension, for various sizes and embedments of treated ASTM D25 quality timber piles for the lift station; stability of the lift station against a bearing capacity failure and hydrostatic uplift; estimates of settlement and differential settlement due to fill placement and between pile/grade supported features; and the use of temporary retaining structures as well as dewatering and pressure relief during construction of the sewer lift station.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
03/2017 (A)	Unknown	\$9,000

**PROJECT NO. 04**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>City of Lake Charles</b>  <b>Power Center Sewer</b>  <b>Improvements and Lift Station</b>  <b>Calcasieu Parish, Louisiana</b>  <b>Eustis Engineering Project No. C0022</b> </p> <p align="center"> <b>Contact Information:</b>                      City of Lake Charles through                      D. W. Jensen &amp; Associates, L.L.C.                      440 Kirby Street                      Lake Charles, Louisiana 70601                      D. W. Jensen or Benjamin Clark                      @ 337-433-0561                 </p>	<p>Eustis Engineering performed a geotechnical exploration for a proposed sewer lift station to be constructed approximately 745 feet east of the intersection of Amoco Drive and Power Center Parkway in Lake Charles, Louisiana.</p> <p>The scope of the exploration included the drilling of one undisturbed sample type soil test boring to determine subsoil conditions and stratification, and to obtain samples of the various strata encountered. The soil boring was performed to a depth of 30 feet below the existing ground surface with a truck mounted rotary type drill rig. Upon completion of the drilling operations, the boring was grouted in accordance with current regulatory requirements. GPS coordinates were obtained at the boring location using a handheld device.</p> <p>Soil mechanics laboratory tests, consisting of natural water content, unit weight, unconfined compression shear (UC), and unconsolidated undrained triaxial compression shear (OB) confined at its overburden pressure, were performed on undisturbed samples obtained from the boring. In addition, Atterberg liquid and plastic limits tests were performed on selected representative samples. These laboratory tests were necessary to confirm the classification of the subsoils and provide the relative strength and compressibility of the subsoils.</p> <p>Based on the exploration and laboratory tests, Eustis Engineering provided recommendations regarding the potential for volumetric change and additional testing needs. Design services were not included in our scope of work for this project.</p>	
<p align="center"><b>Completion Date</b> <b>(Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
<p align="center">06/2016 (A)</p>	<p align="center">Unknown</p>	<p align="center">\$1,700</p>

**PROJECT NO. 05**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Utilities Inc. of Louisiana</b>  <b>Woodridge Subdivision</b>  <b>Primary Lift Station Replacement</b>  <b>New Wet Well</b>  <b>Mandeville, Louisiana</b>  <b>Eustis Engineering Project No. 23097</b> </p> <p align="center"> <b>Contact Information:</b>                      Utilities Inc. of Louisiana                      Suite 150                      201 Holiday Boulevard                      Covington, Louisiana 70433                      Delos Williams @ 985-705-4696                 </p>	<p>Eustis Engineering performed geotechnical drilling services for a lift station in the Woodridge Subdivision off LA Highway 22 near Mandeville.</p> <p>A new wet well was planned for the subdivision. Eustis Engineering's services included the drilling of one undisturbed soil boring to a depth of 40 feet. The boring was drilled with one of our truck mounted drill rigs.</p> <p>Prior to our arrival at the site, the boring location was staked by others. Due to a debris pile, the boring was offset approximately 12 feet to the north. GPS coordinates were obtained using a handheld unit at the boring location.</p> <p>Samples of cohesive or semi-cohesive subsoils were obtained at close intervals or changes in stratum using a 3-in. diameter thinwall Shelby tube sampling barrel. The samples were immediately extruded from the sampling barrel, inspected, and visually classified by Eustis Engineering's soil technician. Pocket penetrometer tests were performed on select samples to give a general indication of their shear strength or consistency.</p> <p>Our scope did not include soil mechanics laboratory tests or engineering analyses.</p>	
<p align="center"><b>Completion Date</b> (Actual or Estimated)</p>	<p align="center"><b>Estimated Cost:</b></p>	
<p align="center">02/2016 (A)</p>	<p align="center"><b>Entire Project:</b> Unknown</p>	<p align="center"><b>Work for Which Firm Was Responsible:</b> \$1,500</p>

**PROJECT NO. 06**

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> <b>Jefferson Parish</b>  <b>Lift Station G8-2</b>  <b>Tolmas Drive and</b>  <b>West Esplanade Avenue</b>  <b>Metairie, Louisiana</b>  <b>Eustis Engineering Project No. 22583</b> </p> <p align="center"> <b>Contact Information:</b>                      Jefferson Parish Through                      Barowka &amp; Bonura                      Engineers &amp; Consultants, LLC                      209 Canal Street                      Metairie, Louisiana 70005                      Jeffrey Bonura @ 504-828-0030                 </p>	<p>Jefferson Parish planned to improve Lift Station G8-2 by installing a 12' x 12' valve pit 10 feet below the existing ground surface. To determine subsoil conditions and stratifications at the site, Eustis Engineering drilled one undisturbed soil boring to a depth of 80 feet below the existing ground surface using a truck-mounted, rotary-type drill rig. Cohesive or semi-cohesive subsoils were sampled at close intervals or changes in stratum using a 3-in. thinwall Shelby tube sampling barrel. Once the samples were extracted from the borehole, pocket penetrometer tests were performed on the trimmed ends of the extruded samples to provide a general indication of the soil's shear strength or consistency.</p> <p>Our laboratory technicians performed soil mechanics laboratory tests consisting of natural water content, unit weight, and unconfined compression shear on undisturbed samples obtained from the boring.</p> <p>Based on the soil boring and soil mechanics laboratory tests, Eustis Engineering developed recommendations for site preparation, excavation and dewatering, lateral earthen pressures, bedding and backfill, estimated allowable soil bearing values for mat foundations, estimates of allowable pile load capacities, estimates of settlement, and general foundation construction procedures.</p> <p>More specifically, engineering analyses included:</p> <ul style="list-style-type: none"> <li>• recommendations regarding stability of the structure against hydrostatic uplift;</li> <li>• base preparation recommendations for the valve pit foundation including the use of geotextiles, bedding requirements, and structural fill requirements;</li> <li>• allowable soil bearing values for the valve pit's mat foundation;</li> <li>• allowable load capacities, in compression and tension, for various sizes of treated ASTM D25 quality timber piles to support the proposed valve pit;</li> <li>• estimates of settlement and differential settlement for both mat and timber pile foundations;</li> <li>• excavation and dewatering recommendations associated with construction; and</li> <li>• effects of areal subsidence on the project.</li> </ul>	
<p align="center"><b>Completion Date</b> (Actual or Estimated)</p>	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
<p align="center">08/2014 (A)</p>	<p align="center">Unknown</p>	<p align="center">\$4,100</p>

**PROJECT NO. 07**

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> <b>City of Kenner</b>  <b>Lift Station No. 4102</b>  <b>Airline Highway and Minden Avenue</b>  <b>Jefferson Parish, Louisiana</b>  <b>Eustis Engineering Project No. 22317</b> </p> <p align="center"> <b>Contact Information:</b>                      City of Kenner Through                      Hartman Engineering, Inc.                      Suite 300                      527 West Esplanade Avenue                      Kenner, Louisiana 70065                      Priyo Majumdar @ 504-466-5667                 </p>	<p>The City of Kenner planned to renovate the existing Sewer Lift Station No. 4102. The renovation involved adding a buried valve pit adjacent to the existing lift station. The valve pit was to be 8 to 10 feet in diameter and placed 6 feet below the existing ground surface. A small cofferdam was considered for construction. Eustis Engineering was retained to perform professional geotechnical services consisting of field, laboratory, and engineering services.</p> <p>In the field, Eustis Engineering drilled one undisturbed soil boring to a depth of 60 feet to determine subsoil conditions and stratification at the project site. The drill crew also made one auger boring to a depth of 12 feet below the existing grade to measure groundwater conditions at the time of the exploration. For the undisturbed boring only, team members obtained samples of cohesive or semi-cohesive subsoils at close intervals or changes in stratum using a 3-in. diameter thinwall Shelby tube sampling barrel. The samples were extruded, inspected, and visually classified in the field. Our soil technician performed pocket penetrometer tests on the samples to give a general indication of the soil's shear strength and consistency. Samples were placed in moistureproof containers to preserve their natural water content prior to laboratory testing.</p> <p>Our laboratory technicians performed soil mechanics laboratory tests on these samples to evaluate the physical properties of the various substrata.</p> <p>Engineering analyses, based on the undisturbed soil boring and soil mechanics laboratory test results, were used to develop recommendations regarding:</p> <ul style="list-style-type: none"> <li>• site preparation including drainage, trenching and excavations, dewatering and pressure relief, and lateral movement and settlement of the adjacent ground surface;</li> <li>• bottom preparation including bedding, the use of geotextile fabric, and the effects of uplift pressure during/after construction;</li> <li>• estimated gross and net allowable soil bearing values for the valve pit's mat foundation;</li> <li>• allowable pile load capacities, in compression and tension, for treated timber piles;</li> <li>• estimates of settlement; and</li> <li>• general construction recommendations.</li> </ul>	
<p align="center"><b>Completion Date</b> (Actual or Estimated)</p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
10/2013 (A)	Unknown	\$3,200

**PROJECT NO. 08**

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> <b>City of Kenner</b>  <b>Sewer Capital Improvement Program</b>  <b>Sewage Pumping Station Upgrade</b>  <b>31st Street and Jasper Street Lift Station</b>  <b>Jefferson Parish, Louisiana</b>  <b>Eustis Engineering Project Nos.</b>  <b>21834 and 22559</b> </p> <p> <b>Contact Information:</b>                      City of Kenner                      Department of Public Works Through                      Design Engineering, Inc.                      Suite 205                      3330 West Esplanade Avenue                      Metairie, Louisiana 70002                      John Holtgreve @ 504-836-2155                 </p>	<p>Construction was to consist of a new wet well 20 to 25 feet below the existing ground surface, a valve pit 6 to 8 feet below the existing ground surface, and an electrical panel at the ground surface. The wet well and valve pit would each have a 12' x 12' pad. The electrical panel would have a 2' x 5' pad. Both shallow foundation systems and treated timber piles were being considered for support of the project features.</p> <p>Eustis Engineering conducted one 80-foot undisturbed soil test boring to provide sufficient information for the evaluation of piles and sheetpiles. Our laboratory technicians performed tests on samples obtained from the boring at the direction of our engineers in order to evaluate the physical properties of the various substrata.</p> <p>Engineering analyses, based on the soil boring and laboratory test results, were made to determine recommendations regarding site preparation and drainage, pipe bedding, estimates of allowable soil bearing values, estimates of allowable load capacities for timber piles, estimates of settlement, a temporary restraining system, and foundation construction procedures as well as recommendations for rigid and flexible pavements. Eustis Engineering also provided construction materials testing services for this project. Those services included:</p> <ul style="list-style-type: none"> <li>• soil mechanics laboratory tests including moisture content, Atterberg limits, mechanical analysis, and standard Proctor;</li> <li>• inplace density tests on sand, limestone, and crushed concrete for use as structural backfill, bedding, and base course;</li> <li>• visual and physical inspection of more than 1,620 feet of timber piles;</li> <li>• pile logging during installation;</li> <li>• performance of vibration and acoustical monitoring during pile installation;</li> <li>• review of asphalt and concrete mix designs intended for use on the project;</li> <li>• visual and physical inspection of concrete placed for the lift station slab, seal slab, foundation slab, skid foundation, tank bottom, manhole, electrical pad, sidewalk, and roadway;</li> <li>• compressive strength tests on concrete cylinders made during the above inspection; and</li> <li>• the coring and inspection of asphalt.</li> </ul> <p>Our engineers performed quality reviews of these inspection reports prior to issuing the results.</p>	
<p align="center"><b>Completion Date</b> <b>(Actual or Estimated)</b></p>	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
<p align="center">04/2015 (A)</p>	<p align="center">Unknown</p>	<p align="center">\$19,300</p>

**PROJECT NO. 09**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Town of Henderson</b>  <b>Sewer Improvements</b>  <b>North of Interstate 10</b>  <b>Pump Station</b>  <b>Henderson, Louisiana</b>  <b>Eustis Engineering Project No. L0462</b> </p> <p align="center"> <b>Contact Information:</b>                      Town of Henderson                      Post Office Box 595                      Henderson, Louisiana 70517                      Sherbin Collette @ 337-228-7109                 </p>	<p>Sewer improvements were planned for the Town of Henderson, Louisiana. A new pump station, comprised of a wet well and valve pit, would be constructed on North Barn Road.</p> <p>Plans called for the wet well to be supported by an 18-in. thick concrete mat underlain by 12 inches of limestone bedding. It would be constructed of precast, reinforced concrete pipe sections having outside diameter dimensions of 72 inches with a square mat foundation having plan dimensions of 9.3' x 9.3'. Furnished plans indicated the existing ground surface was at approximate el 18. The excavation for the wet well would be made to a depth of 21.5 feet or approximately at el -3.5.</p> <p>The adjacent valve pit would be constructed of precast, reinforced concrete pipe sections having outside diameter dimensions of 60 inches. Drawings indicated the valve pit would be supported by a 12-in. thick concrete mat underlain by 12 inches of limestone bedding. The valve pit would require excavation to an approximate depth of 6 feet (approximate el 12). Plans also indicated the valve pit mat foundation would have plan dimensions of 7' x 7'.</p> <p>One soil boring was made to a depth of 60 feet using a truck mounted rotary type drill rig for the purpose of evaluating subsoil conditions and stratification, and to obtain samples of the various substrata. Soil mechanics laboratory tests consisted of natural water content, unit weight, unconfined compression shear, and unconsolidated undrained triaxial compression shear. In addition, Atterberg liquid and plastic limits tests were performed on selected soil samples.</p> <p>Engineering analyses, based on the soil boring and laboratory tests, were made to determine recommendations regarding site preparation; estimates of allowable soil bearing values; geotextile use, lateral earth pressure, and uplift pressure of the wet well; settlement, excavations, dewatering, and pressure relief of the temporary retaining structures (for cost estimating purposes only); and construction monitoring.</p>	
<p align="center"><b>Completion Date</b> <b>(Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
08/2016 (A)	Unknown	\$7,200

**PROJECT NO. 10**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Jefferson Parish Proposed Lift Station Melody Drive and West Esplanade Avenue Metairie, Louisiana Eustis Engineering Project No. 24782</b> </p> <p align="center"> <b>Contact Information:</b>                      Jefferson Parish Through                      ECM Consultants, Inc.                      1301 Clearview Parkway                      Suite 200                      Metairie, Louisiana 70006                      Sunina Shrestha P.E. @ 504-885-4080                 </p>	<p>A new lift station was proposed to be constructed at the intersection of Melody Drive and West Esplanade Avenue in Metairie, Louisiana, just east of the existing lift stations. The structure's wet well and valve pit would have a 2-foot-thick base slab extending 2 feet beyond all sides. Two options regarding the wet well size and dimensions were being considered. A new pile-supported sewer force main aerial canal crossing was also proposed.</p> <p>Eustis Engineering's subsurface exploration comprised one undisturbed sample-type soil test boring to a depth of 70 feet below the existing ground surface using a truck-mounted rotary-type drill rig. Due to the existing site features and overhead and underground utilities, our crew coordinated closely with the designer and representatives of Jefferson Parish to select the boring location. After completion of the field work, the samples were transported to our certified Metairie laboratory for testing. Soil mechanics laboratory tests consisted of visual classification, natural water content, unit weight, unconfined compression shear, unconsolidated undrained triaxial compression shear, and Atterberg liquid and plastic limits. These test results were utilized to develop soil design parameters for the geotechnical analyses.</p> <p>We made recommendations for both shallow (mat/slab) and deep (driven pile) foundation design, installation, and materials.</p> <p>Engineering analyses included settlement and lateral earth pressures (at-rest, active, and passive). For mat foundations, we calculated allowable soil bearing values, net applied pressure intensity, estimated settlement, and uplift pressure. For pile foundations, we calculated allowable pile load capacities, and estimated settlement. We also provided recommendations for pile materials, size, and installation methods.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p> <p align="center">05/2022 (A)</p>	<b>Estimated Cost:</b>	
	<p align="center"><b>Entire Project:</b></p> <p align="center">Unknown</p>	<p align="center"><b>Work for Which Firm Was Responsible:</b></p> <p align="center">\$6,200</p>

**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 single two-man office to approximately 115 individuals in five offices, 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’s East Bank.* 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, downhole vane, and Geoprobe®);
- soil mechanics laboratory tests;
- field instrumentation and monitoring;
- 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
Unique Entity Identifier (UEI)	R83MG9NLTMS4
CAGE Code	4MOP2
Firm License - Louisiana	EF.0003558
Firm License - Mississippi	2078
Firm Registration – Texas	13895

Eustis Engineering has worked on over 800 geotechnical and construction materials testing projects for Jefferson Parish Government entities, many of which focused on sewerage and associated structures. We have also worked on over 4,000 projects of all types throughout the east and west banks of Jefferson Parish alone, not considering similar projects in the surrounding parishes. This work history gives our engineering staff unparalleled familiarity with the foundation conditions in the Gulf Coast and the challenges that may arise for projects associated with this contract.

## ENGINEERING SERVICES

Eustis Engineering has engineering capabilities to fulfill the requirements of nearly any project. We have developed pile capacity and bearing capacity analyses for projects throughout the coastal areas of the United States. Eustis Engineering's evaluation of piles includes estimates of vertical capacity for groups. We also perform lateral analyses of individual piles and pile groups using LPILE and GROUP.

We perform settlement studies including estimates of settlement and time-rate of settlement with and without wick drains to enhance consolidation. These settlement studies include estimates and recommendations for lift construction affecting a gain-in-strength of foundation soils associated with subsoil consolidation. Preload/surcharge operations are also a component of our settlement evaluations.

Our capabilities extend to performance of deep-seated global stability analyses for structures (T-walls and I-walls) according to the standards of the Hurricane and Storm Damage Risk Reduction System Design Guidelines, Louisiana Flood Protection Design Guidelines, and the CPRA's Marsh Creation Design Guidelines, using Spencer's Method as coded in SLOPE/W and the LMVD Method of Planes as coded in UPLIFT. These programs are also used for the design and verification of levees, reinforced embankments, revetments, channel slopes, and open excavations.

In our practice, Eustis Engineering has developed methodologies associated with the estimates of negative skin friction on pile foundations. The methods are the current state of practice. The extension of these methods is an evaluation of settlement induced bending moment (SIBM). Eustis Engineering is also utilizing a numerical model program, SIGMA/W, in association with the rigorous settlement program Settle3.

Finally, Eustis Engineering has performed seepage analyses for evaluation of heave, uplift, and piping. We use EM 1110-2-1913, EM 1110-2-1901, and DNR 1110-1-400 for manual calculations that consider blanket theory. We also use SEEP/W for a computer model and typically compare the results of manual calculations to the SEEP/W model as a quality assurance procedure.

### Engineering Staffing

Our engineering staff has 14 Master's degrees in Civil Engineering, Engineering, Engineering Management, Geology, 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
<b>Professional Engineers (P.E.)</b>			
Benjamin M. Cody	M.S. / Civil Engineering	21	25
Brian A. Deschamp	B.S. / Civil & Environmental Engineering	10	10
	B.A. / Business Administration		
Lars A. Erickson	B.S. / Civil & Environmental Engineering	6	6
	Coastal Engineering Certificate		
James J. Hance	M.S. / Civil Engineering	19	23
	M.B.A. / Business Administration		

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
<b>Professional Engineers (P.E.)</b>			
Chad L. Held	M.S. / Civil Engineering	31	31
Matthew K. Morales	B.S. / Civil Engineering	13	13
Travis R. Richards	M.S. / Engineering	17	24
	M.S. / Engineering Management		
	Coastal Engineering Certificate		
Gwendolyn P. Sanders	M.S. / Engineering	29	29
Shaun R. Simon	M.S. / Civil Engineering	22	22
Patrick A. Thurmond	M.S. Engineering Management	7	7
	M.S. / Civil Engineering		
	Coastal Engineering Certificate		
Sean G. Walsh	M.S. / Civil Engineering	10	15
James M. Williams	M.S. / Civil Engineering	4	4
Henry C. Worley	B.S. / Civil Engineering	5	6.5
	Coastal Engineering Certificate		
<b>Engineering Interns (E.I.)</b>			
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 <sup>(1)</sup>	B.S. / Civil Engineering	9	9
<b>Engineering Graduates</b>			
Lesley L. Reitmeyer	B.S. / Civil Engineering	13	13
Sean T. Smith	B.S. / Civil Engineering	6	6
<b>Geologists</b>			
Matthew J. Blasini, G.I.T.	B.S. / Geology	3	4
Nathan A. Quick, P.G.	M.S. / Geology	1	6
<b>Total Years of Experience</b>		<b>229</b>	<b>257.5</b>

<sup>(1)</sup> Long-term Subcontractor who has passed the P.E. Exam and is waiting verification of credentials.

*Reviewing our table, the majority of Eustis Engineering's professional engineers have at least ten years of experience in geotechnical engineering.*

#### 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 CPTs 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.

#### **Field Exploration Personnel**

We can provide up to eight (8) 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	James Cordes	Rene Davidson	Eric Held	James Lubben	George Reitmeyer	Lawrence Rome	Michael Whipkey
Hand Auger Borings	X	X	X	X	X	X	X	X
General Type (3-in. Diameter Borings)	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	
Undisturbed Type (5-in. Diameter Borings)	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	
Location Information (Latitude, Longitude)		X	X	X	X		X	X
Set Permanent Benchmarks		X	X	X	X		X	
Install Instrumentation		X	X	X	X		X	
Cone Penetration Tests				X		X		
Geoprobe® Sampling	X	X		X	X		X	X

#### **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 and downhole vanes 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 the efficient development of 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.

**Laboratory Staffing**

Eustis Engineering currently has qualified technicians to sample construction materials and 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	Concrete	Concrete
Masonry	Masonry	Soil
Soil	Spray Fire-Resistive Material	Spray Fire-Resistive Material

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. Timmy Holleman, dedicated Quality Control Manager, oversees the calibration of our equipment and maintenance of our quality system. The biggest reward of our quality system is knowing our clients are confident that our testing laboratories produce the highest quality results and conforms to state and national standards.

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

Signature:   
Title: President

Print Name: Gwendolyn P. Sanders, P.E.  
Date: 22 June 2022