



STATEMENT^{OF} QUALIFICATIONS

SALA AVENUE HISTORIC DISTRICT
DRAINAGE FEASIBILITY ANALYSIS
AND IMPROVEMENTS PROJECT

SOQ NO. 25-005
RESOLUTION NUMBER: 145576

FEBRUARY 7, 2025



IN ASSOCIATION WITH:

Eustis Engineering, LLC.
Alphonse Barcia III Architect LLC.

LINFIELD, HUNTER & JUNIUS, INC.

25M-009



LINFIELD, HUNTER & JUNIUS, INC.

PROFESSIONAL ENGINEERS,
ARCHITECTS AND SURVEYORS

3608 18th Street / Suite 200
Metairie, Louisiana 70002
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Nathan J. Junius, P.E., P.L.S.
Anthony F. Goodgion, P.E.
Nathan D. Hills, AIA
Charles T. Knight, P.E.
Robert E. Nockton, P.E.
Mark K. Annino, E.I.
Casey M. Genovese, P.E.

Daniel A. Flores, P.E.
John M. Jackson, P.E.
Vincent J. Leco, III, P.E.
Eric R. Wright, P.E.
Timothy J. Roth, P.E.
Luis F. Sosa, P.E.
Richard A. Van Wootten, P.E.

February 5, 2025

Ms. Shanna Folse
Jefferson Parish Government
200 Derbigny Street, Suite 4400
Gretna, LA 70053

**RE: Statement of Qualifications
Sala Avenue Historic District Drainage Feasibility Analysis
And Improvements Project
Resolution No. 145576 – SOQ No. 25-005
Our File #: 25M-009**

Linfield, Hunter & Junius, Inc. (LH&J) is pleased to submit its Statement of Qualifications for the Routine Engineering Services for Drainage Projects in Jefferson Parish.

LH&J is well qualified to provide the services required for this project. Our Team is made up of over 13 professionals and a support staff of over 25 individuals which are available to meet all project requirements. Subconsultant Eustis Engineering, LLC will be providing Geotechnical Engineering and Alphonse Barcia III Landscape Architect LLC will provide Landscape Architecture services. Our Team meets or exceeds the qualifications and experience required for this project.

Contact Information:

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

We appreciate your business and look forward to continuing our relationship with Jefferson Parish.

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:

Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project
Resolution No. 145576
SOQ 25-005

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

LINFIELD, HUNTER & JUNIUS, INC.
3608 18th 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 18th 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 18th 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>2</u> Architects (Licensed) | — Geologists | <u>4</u> Structural Engineers |
| — Chemical Engineers | — Geotechnical Engineers | — Graduate Engineers |
| <u>7</u> Civil Engineers (Licensed) | — Interior Designers | — Project Managers |
| <u>4</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>8</u> Engineer Intern | — Environmental Engineers | <u>4</u> CADD Drafters |
| <u>2</u> Professional Land Surveyors | <u>1</u> Architect Intern | <u>43</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. Eustis Engineering, LLC 3011 28 th Street Metairie, LA 70002 | Geotechnical Engineering | Yes |
| 2. Alphonse Barcia III Landscape Architect, LLC 562 Clayton Court Slidell, LA 70461 | Landscape Architecture | Yes |
| 3. | | |

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

12

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



**Sala Avenue Historic District
Drainage Feasibility Analysis
and Improvements
SOQ No. 25-005
Resolution No. 144576**

Prime Consultant



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

Management Team

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

Robert E. Nockton, P.E.
Project Manager

Design Team

Civil Engineering/Drainage Design

Mark K. Annino, E.I.
Team Leader

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

Daniel A. Flores, P.E.
Lead Structural Engineer

Vincent J. Leco, P.E.
Eric R. Wright, P.E.
Almedin Tursunovic, E.I.
Bryce L. Vazquez

Roadway / Traffic Engineering

Nathan J. Junius, P.E., P.L.S., PTOE
Team Leader

Elmer N. Darwin, P.E., PTOE
Lead Traffic Engineer

Casey M. Genovese, P.E.
Senior Roadway / Traffic Engineer

Alexander R. Stapp, E.I.

Land Surveying

Nathan J. Junius, P.E., P.L.S., PTOE
Team Leader

William J. Muller, P.L.S.
Senior Land Surveyor / Lead Surveyor

Cooper G. Ashworth, E.I.
Survey Coordinator

Daniel D. Bindewald
Paul H. Morales, IV

Geotechnical Engineering

Gwen P. Sanders, P.E.
*Senior Geotechnical Engineer /
Team Leader*

James J. Hance, P.E.
Benjamin N. Cody, P.E.
Sean G. Walsh, P.E.

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

Project Assignment:

Principal In Charge / Roadway/Traffic Engineering Team Leader / Land Surveying Team Leader

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

24 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, surveying 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.

ENGINEERING PROJECTS

HOEY'S CANAL BYPASS, JEFFERSON PARISH, LA

Junius is the **Principal in Charge** of this project. The Hoey's Canal Bypass is divided into three phases. Phase 1 entailed the construction of approximately 800 feet of new pile-supported concrete-lined canal with concrete side slopes from the Monticello Canal to Cold Storage Road. Phase 2 entailed the construction of approximately 450 feet of pile-supported concrete-lined canal including a 200-foot long 31-foot wide by 10-foot high pile-supported covered concrete box culvert. Phase 3 will consist of the construction of pile-supported concrete-lined canal that connects Phases 1 and 2.

TEC Professional Services Questionnaire

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

Resume

Project Assignment – Principal in Charge / Roadway/Traffic Engineering Team Leader / Land Surveying Team Leader

HOEY'S CANAL IMPROVEMENTS (PHASE II AND III), JEFFERSON PARISH, LA

Junius is **Principal in Charge** for this project. This project is divided into three phases. Phase 1 entailed the construction of approximately 800 feet of sheet pile lined concrete flume with concrete side slopes from Betz Avenue to Deckbar Avenue. Phase 2 entailed the construction of approximately 1,800 feet of sheet pile lined pile-supported concrete flume with concrete side slopes from Deckbar Avenue to Labarre Road. Phase 2 also included an in-line pile-supported culvert beneath a railroad spur. Phase 3 will consist of the construction of approximately 1,500 feet of sheet pile lined concrete flume with concrete side slopes from Labarre Road to Causeway Boulevard.

GEISENHEIMER COVERED CANAL RECONSTRUCTION, METAIRIE, LA

Junius was **Principal in Charge** for this project. The Geisenheimer Covered Canal is the primary drainage canal for the portion of Jefferson Parish located between Metairie Road to the north, Airline Drive to the south, the Orleans/Jefferson Parish boundary to the east and Causeway Boulevard to the west. This area includes the Metairie Country Club and Metairie Club Gardens subdivision. The project entailed the addition of 2,800 feet of new **covered concrete box culvert** adjacent to the existing box culvert.

17TH STREET CANAL WIDENING BETWEEN HOEY'S CANAL AND AIRLINE DRIVE, JEFFERSON PARISH / NEW ORLEANS, LA

Junius was **Principal in Charge** for this project. This project entails the **widening and concrete lining** of approximately 700 feet of the 17th Street Canal between the Hoey's Canal and Airline Drive, including the construction of new pile-supported concrete canal bottom and pile-supported concrete retaining side walls.

LAND SURVEYING

Junius currently provides surveying in many areas including hydrographic surveying, GPS surveying, single beam technology, multibeam technology and scanning including numerous topographic and boundary surveys. Survey data that LH&J provides has been imported into ArcGis in the following survey data converter formats: ASCII, TDS Coordinate and TDS Raw. The survey work has been in the State Plane Coordinate System based on NAD27. 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. One of Junius' largest surveying projects included the hydrographic and topographic surveying for the **Inner Harbor Navigation Canal (IHNC) Lake Borgne Surge Barrier** which included over a mile and half of hydrographic surveying through the marsh including topographic surveying for two gates.

RELEVANT EXPERIENCE:

CANAL STREET IMPROVEMENTS, JEFFERSON PARISH, LA

Land Surveying Team Leader for this Jefferson Parish road and drainage project. Topographic surveying for the reconstruction of a divided roadway, culverting an **open channel drainage canal**, and building a Linear Park from Lake Avenue to the I-10 Frontage Road including a bike trailhead.

HOEY'S CANAL BYPASS, JEFFERSON PARISH, LA

Land Surveying Team Leader for this drainage project. Topographic and boundary surveying for the construction of a new concrete-lined open canal including a 200-foot long 31-foot wide by 10-foot high pile-supported **covered concrete box culvert**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert E. Nockton, P.E.

Project Assignment:

Project Manager

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

30 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 a project manager or lead civil engineer on variety of projects that include bridge replacement projects, urban streets projects, improvements to **major drainage structures and drainage pump stations, drainage studies**, water and sewerage studies, new waterlines and sewer lines, waterline and sewer line replacement and upgrades, sewage lift station design and rehabilitation, water and wastewater treatment plant expansions and upgrades and site design.

A sampling of Nockton's relevant drainage project experience includes:

CANAL STREET IMPROVEMENTS, METAIRIE, LA

Nockton was **Project Manager** for the first phase of this project. This project includes the installation of a new double barrel box culvert in an open canal and enclosure of the canal, along with new subsurface drainage to tie the existing drainage into the new box culvert. A **hydraulic analysis** of the proposed box culverts was initially conducted to assess impacts to adjacent areas.

17TH STREET CANAL WIDENING BETWEEN HOEY'S CANAL AND AIRLINE DRIVE, JEFFERSON PARISH / NEW ORLEANS, LA

Nockton was the **Project Manager** for this project. This project entails the widening and concrete lining of approximately 700 feet of the 17th Street Canal between the Hoey's Canal and Airline Drive, including the construction of new pile-supported concrete canal bottom and pile-supported concrete retaining side walls. The project also included **green infrastructure** consisting of bio swales and native planting.

NEW SARPY DRAINAGE PUMP STATION IMPROVEMENTS, ST. CHARLES PARISH, LA

Nockton is the **Project Manager** for this project that entails increasing the capacity of a **drainage pump station** from 150 cfs to 250 cfs. Nockton performed all **hydraulic analysis** and identified alternatives to accomplish this capacity expansion while maintaining operability of the pump station during construction.

TEC Professional Services Questionnaire

Robert E. Nockton, P.E.

Resume

Project Assignment – Project Manager

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

Nockton was the Lead Civil Engineer for this project. This project consisted of the upgrading of the **subsurface drainage** and roadway reconstruction along Cuddihy Drive and Woodvine Avenue to alleviate persistent street flooding.

GEISENHEIMER BASIN DRAINAGE STUDIES, METAIRIE, LA

Nockton was **Project Manager** and Lead Civil Engineer for 2006 study and recent update to this study that included **hydraulic and hydrologic analysis** of the Geisenheimer Drainage Basin, an 1,100 acre drainage basin encompassing Old Metairie. Several recommendations from the most recent update were subsequently designed.

GEISENHEIMER COVERED CANAL RECONSTRUCTION, METAIRIE, LA

Nockton was **Project Manager** and Lead Civil Engineer for this project. The Geisenheimer Covered Canal is the primary drainage canal for the portion of Jefferson Parish located between Metairie Road to the north, Airline Drive to the south, the Orleans/Jefferson Parish boundary to the east and Causeway Boulevard to the west. This area includes the Metairie Country Club and Metairie Club Gardens subdivision. The project entailed the construction of 1,450 feet of **covered concrete box culvert (15' x 8')** and the design of 2,800 feet of **covered concrete box culvert (12' x 8')** that runs parallel to the existing box culvert that runs beneath the Metairie Country Club Golf Course.

HOEY'S CANAL IMPROVEMENTS (PHASE II AND III), JEFFERSON PARISH, LA

Nockton was **Project Manager** and Lead Civil Engineer for this project. This project is divided into three phases. Phase 1 entailed the construction of approximately 800 feet of sheet pile lined concrete flume with concrete side slopes from Betz Avenue to Deckbar Avenue. Phase 2 entailed the construction of approximately 1,800 feet of sheet pile lined pile-supported concrete flume with concrete side slopes from Deckbar Avenue to Labarre Road. Phase 2 also included an in-line pile-supported culvert beneath a railroad spur. Phase 3 will consist of the construction of approximately 1,500 feet of sheet pile lined concrete flume with concrete side slopes from Labarre Road to Causeway Boulevard. A **hydraulic and hydrologic analysis** was initially performed to assess project benefits.

HOEY'S CANAL BYPASS, JEFFERSON PARISH, LA

Nockton is the **Project Manager** and Lead Civil Engineer for this project. The Hoey's Canal Bypass is divided into three phases. Phase 1 entailed the construction of approximately 800 feet of new pile-supported concrete-lined canal with concrete side slopes from the Monticello Canal to Cold Storage Road. Phase 2 entailed the construction of approximately 450 feet of pile-supported concrete-lined canal including a 200-foot long 31-foot wide by 10-foot high pile-supported covered concrete box culvert. Phase 3 will consist of the construction of pile-supported concrete-lined canal that connects Phases 1 and 2. A **hydraulic and hydrologic analysis** was initially performed to assess project benefits.

AUDUBON PARK DRAINAGE SYSTEM STUDY, NEW ORLEANS, LA

Nockton was the **Project Manager** for this project. Exposition Boulevard, a concrete-paved pedestrian walkway along the eastern edge of Audubon Park, regularly floods during heavy rainfall events, rendering it unusable and generating ongoing complaints from adjacent residents. This study identified and prioritized numerous **alternative improvements to alleviate flooding**.

DILLARD UNIVERSITY IMPROVEMENTS, NEW ORLEANS, LA

Nockton was Lead Civil Engineer for this project. LH&J was engaged by Dillard University to design multiple infrastructure projects including improvement of the campus-wide **drainage facilities**, roadways, parks, **pervious pavements**, **bioswales**, parking lots, tennis courts, etc.

REHABILITATION AND UPGRADE OF MAGAZINE AND PRYTANIA STREETS, NEW ORLEANS, LA

Nockton performed drainage calculations and designed over **10,000 linear feet of new subsurface drainage**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Mark K. Annino, E.I.

Project Assignment:

Civil Engineering Team Leader

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

30 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 **subsurface and major drainage structures, roadways**, bridges, water distribution systems, utility system replacement / relocation (sewer, water, drain, etc.), hydraulic structures and horizontal / vertical geometric layouts. Annino has also been involved in the permit application process and construction administration of most projects for which he has designed.

A sampling of Annino's experience with drainage includes:

CANAL STREET IMPROVEMENTS, METAIRIE, LA

Annino is the Civil Engineering Design Team Leader for this project. This project includes the installation of a **new double barrel box culvert** in an open canal and enclosure of the canal, along with **new subsurface drainage** to tie the existing drainage into the new box culvert.

17TH STREET CANAL WIDENING BETWEEN HOEY'S CANAL AND AIRLINE DRIVE, JEFFERSON PARISH / NEW ORLEANS, LA

Annino was the Civil Engineering Design Team Leader for this project. This project entails the widening and concrete lining of approximately 700 feet of the 17th Street Canal between the Hoey's Canal and Airline Drive, including the construction of new pile-supported concrete canal bottom and pile-supported concrete retaining side walls.

EAST AND WEST LIVINGSTON PLACE DRAINAGE 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** and utility relocation.

TEC Professional Services Questionnaire

Mark K. Annino, E.I.

Resume

Project Assignment – Civil Engineering Team Leader

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 and the reconstruction of the affected roadways.

DAKIN ST. IMPROVEMENTS, METAIRIE, LA

Annino performed Civil Engineering on this project. The Dakin Street Corridor project is divided into three Phases. Phase 1 entailed the construction of an underpass, railroad bridge and pump station at Dakin Street and Airline Drive. Phase 2 includes a 3,200 feet overpass and 1,250 feet of 4-lane roadway from the underpass to Jefferson Highway. Phase 3 will extend L&A Road from Dakin Street to the Earhart Expressway and includes installation of **new subsurface drainage**.

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 **subsurface drainage** and utility relocation.

REPLACE SIX CANAL CROSSINGS OVER GENERAL DEGAULLE DRIVE CANAL, NEW ORLEANS, LA

Annino was the Civil Engineering Design Team Leader for this project. This project required the removal of 6 existing canal crossings and replacement them with double 20 wide **concrete box culverts** and replacement of roadway crossing.

LOUISVILLE STREET / CATINA STREET RECONSTRUCTION, NEW ORLEANS, LA

Annino was the Lead Civil Engineering Designer for this project. This project entailed the reconstruction of 3,950 feet of roadway including replacement of **subsurface drainage** and utility relocation.

CLAIBORNE AVENUE BOX CANAL I-MONTICELLO CANAL TO LEONIDAS STREET, NEW ORLEANS, LA

Annino performed as Lead Civil Engineering Designer on this project. This project entailed the construction of a 20 foot wide by 10 foot deep **Drainage Culvert** and reconstruction of the Claiborne Ave damaged roadway under the SELA program for the Corps of Engineers (COE). Also included replacement of local street **subsurface drainage**.

HOLLYGROVE DRAINAGE IMPROVEMENTS, NEW ORLEANS, LA

Annino performed Civil Engineering on this project. LH&J designed all drainage improvements including the Forshey Street-Railroad Embankment **Drainage Culvert** Improvements, the Dublin Street and Eagle Street **Drainage Culvert** Improvements, the Oleander Street **Culvert** modifications, and the Pritchard Street Pumping Station.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John M. Jackson, P.E.

Project Assignment:

Lead Civil Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

10 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / 2018 / BS / Civil Engineering
Bob Jones University / 2011 / B.S. / Biology

Active registration: Year first registered/discipline:

2021 / Civil / LA License No. PE.0045804

Other experience and qualifications relevant to the proposed Project:

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

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.

GEISENHEIMER COVERED CANAL RECONSTRUCTION, METAIRIE, LA

Jackson was Civil Engineer for this project. The Geisenheimer Covered Canal is the primary drainage canal for the portion of Jefferson Parish located between Metairie Road to the north, Airline Drive to the south, the Orleans/Jefferson Parish boundary to the east and Causeway Boulevard to the west. This area includes the Metairie Country Club and Metairie Club Gardens subdivision. The project entailed the design of 2,800 feet of **covered concrete box culvert** beneath the Metairie Country Club Golf Course.

MAGAZINE STREET RECONSTRUCTION NEW ORLEANS, LA

Jackson is the **Lead Civil Engineer** for this project that consists of 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**, gravity sewer lines and water mains.

TEC Professional Services Questionnaire

John M. Jackson, P.E.

Resume

Project Assignment – Lead Civil Engineer

CANAL STREET IMPROVEMENTS, METAIRIE, LA

Jackson assisted in the preparation of plans for the first phase of this project. This project includes the installation of a **new double barrel box culvert** in an open canal and enclosure of the canal, along with **new subsurface drainage** to tie the existing drainage into the new box culvert.

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

Jackson is the **Lead Civil Engineer** for this project that consists 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.

ZATARAIN'S BRANDS SHIPPING FACILITY, GRETNA, LA

Jackson was **Lead Civil Engineer** for this project. This 12-acre facility would hold rainwater for days after a storm event, causing damage to the truck loading area and inhibiting truck movement. The project included an investigation of the site and the surrounding areas, a **stormwater management plan** for the City of Gretna and the Zatarain's facility, and the design of a **new drainage system**, improved **stormwater storage** measures, and new paving.

DISTRICT 4 COVERED CANAL FEASIBILITY STUDY, JEFFERSON PARISH, LA

Jackson was Civil Engineer for this project. The purpose of this project was to study the impact of replacing existing open canals in District 4 of Jefferson Parish with **covered concrete box culverts**, allowing for land development on top of the existing canals. The project included the modeling of 79,400 feet of canals and the impact of replacing them with box culverts.

KENNER DISCOVERY MODULAR CAMPUS, KENNER, LA

Jackson was Civil Engineering Designer on this project. This project was a flood mitigation study including **hydraulic modeling, drainage design**, ecological considerations, **storm water detention** and **green infrastructure**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Daniel A. Flores, P.E.

Project Assignment:

Lead Structural Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

17 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 2009 / Civil Engineering & Environmental Engineering
University of New Orleans / M.S. / 2013 / Civil Engineering

Active registration: Year first registered/discipline:

2013 / Civil / LA License No. PE.0038154

Other experience and qualifications relevant to the proposed Project:

Flores is an accomplished structural engineer with extensive experience performing the design of a wide range of structures. His experience includes the analyses of existing bridges and docks as well as the engineering design and preparation of plans and specifications for new facilities such as bridges, floodwalls, floodgates, levees, dewatering bulkheads, pumping stations and other types of **hydraulic structures**. He is a member of the American Society of Civil Engineers (ASCE).

17TH STREET CANAL WIDENING BETWEEN HOEY'S CANAL AND AIRLINE DRIVE, JEFFERSON PARISH / NEW ORLEANS, LA

Lead Structural Engineer for this project. This project entails the **widening and concrete lining** of approximately 700 feet of the 17th Street Canal between the Hoey's Canal and Airline Drive, including the construction of new pile-supported **concrete canal bottom and pile-supported concrete retaining side walls**.

HOEY'S CANAL IMPROVEMENTS (PHASE II AND III), JEFFERSON PARISH, LA

Lead Structural Engineer for Phases 2 and 3 of this project. Phase 2 entailed the construction of approximately 1,800 feet of sheet pile lined pile-supported **concrete flume with concrete side slopes** from Deckbar Avenue to Labarre Road. Phase 2 also included an **in-line pile-supported culvert** beneath a railroad spur. Phase 3 will consist of the construction of approximately 1,500 feet of sheet pile lined **concrete flume with concrete side slopes** from Labarre Road to Causeway Boulevard.

TEC Professional Services Questionnaire

Daniel A. Flores, P.E.

Resume

Project Assignment – Lead Structural Engineer

HOEY'S CANAL BYPASS, PHASE 2, JEFFERSON PARISH, LA

Lead Structural Engineer responsible for the design of 25'x5' pile-supported **reinforced concrete flume** and 31'x10' pile-supported **reinforced concrete box culvert**.

GEISENHEIMER CANAL BOX CULVERT, JEFFERSON PARISH, LA

Lead Structural Engineer responsible for the design of **large junction boxes** at the confluence of a 12'x8' **box culvert** and two 96" equivalent arch pipes.

LOUMOR OUTFALL DITCH IMPROVEMENTS, JEFFERSON PARISH, LA

Lead Structural Engineer responsible for the design of numerous **large junction boxes** at bends along the length of a new 96" equivalent arch drainage pipe.

MORGANZA TO THE GULF OF MEXICO LEVEE, TERREBONNE PARISH, LA

Lead Structural Engineer for this project that includes pile-supported **concrete T-Walls** and **drainage structures** in a levee improvement project.

NEW SARPY PUMP STATION IMPROVEMENTS, ST. CHARLES PARISH, LA

Lead Structural Engineer responsible for the structural design of a new wet well for a **drainage pump station** expansion.

WATER AND SEWERAGE EXTENSION – LINDBERG DRIVE TO EAST I-10 SERVICE ROAD, SLIDELL, LA

Lead Structural Engineer responsible for calculation of pipe loading for the directional drilling of 12-inch potable water main and 6-inch sewage force main across the I-10.

SPRUCE STREET COMPRESSION-FIT WATER TRANSMISSION LINE, NEW ORLEANS, LA

Lead Structural Engineer responsible for design of modifications to an existing covered reinforced concrete box culvert to allow for the replacement of 30-inch diameter water main that crosses the box culvert.

20-INCH WATERLINE REPLACEMENT, OAKVILLE TO LA REUSSITE, PLAQUEMINES PARISH, LA

Lead Structural Engineer responsible for the design of a large thrust block capable of absorbing loads generated by 90 psi pressures in a new 20-inch diameter transmission water line.

KENNER WASTEWATER TREATMENT PLANT NO. 3 IMPROVEMENTS, KENNER, LA

Lead Structural Engineer responsible for the design of numerous **hydraulic structures** including a new headworks, splitter box and two final clarifiers.

POLK STREET BRIDGE, TERREBONNE PARISH, LA

Lead Structural Engineer for design of a bridge with three 23 foot spans of 29 foot clear crowned roadway with an 8 percent skew.

BAYOU SEGNETTE DRAINAGE PUMP STATION NO. 1 BRIDGE, JEFFERSON PARISH, LA

Lead Structural Engineer for the design of a bridge at a drainage station on Bayou Segnette.

BELLE CHASSE WASTEWATER TREATMENT PLANT EXPANSION, BELLE CHASSE, LA

Structural designer responsible for the design of numerous **hydraulic structures** including a new headworks, primary clarifier, bio tower, splitter box, final clarifier and chlorine contact chamber.

REPLACE SIX CANAL CROSSINGS OVER GENERAL DEGAULLE DRIVE CANAL, NEW ORLEANS, LA

Structural designer for this project. This project required the removal of 6 existing canal crossings and replacement them with double 20 wide **concrete box culverts** and replacement of roadway crossing.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Elmer N. Darwin, P.E., PTOE

Project Assignment:

Lead Traffic Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

13 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / BS / 1970 / Civil Engineering
Northwestern University / 1975 / Principals of Geometric Design

Active registration: Year first registered/discipline:

1975 / Civil / LA License No. PE.0020404

Other experience and qualifications relevant to the proposed Project:

Mr. Darwin works as a consultant to Linfield, Hunter & Junius, Inc. on projects that require Traffic Engineering.

Darwin has designed numerous traffic signals for LH&J including the signalization at Dickory-Sauve intersection.

Darwin's experience has been as a Traffic Engineer since 1974. His Traffic Engineering experience includes:

- Design of Traffic Signal Systems
- Traffic Studies
- Preparation of Traffic Control Plans
- Investigation of complaints relating to traffic related issues
- Traffic signal timing issues

Darwin's previously worked at the City of New Orleans, Department of Streets (Public Works) from 1974-2008 with the following experience and responsibilities:

TEC Professional Services Questionnaire

Elmer N. Darwin, P.E., PTOE

Resume

Project Assignment – Lead Traffic Engineer

- Supervision of all traffic signal control activities, including the preparation of investigative studies relative to the installation or modification of signal equipment or systems; the design of signal layouts and preparation of bid documents for the implementation or modification of signal equipment; the development and maintenance of timing parameters for and the general operation of all signalized intersections within the jurisdiction, including the 206-intersection computerized traffic signal control system which existed at that time; the preparation and distribution of legal documents relative to lawsuits and claims involving signal controls as well as personal appearances to give expert testimony at legal proceedings; and all signal maintenance activities, including the administration of the Traffic Signal Maintenance Shop, which has 24-hour emergency and non-emergency responsibility of approximately 400 signalized intersections citywide.
- Administration of the Traffic Engineering Division of the Department of Public Works, which is responsible for the management of capital projects, the performance of investigative studies, the preparation and approval of bid documents, the administration of support contracts, and the coordination of field and legal activities involving the conception, design, implementation, construction, modification, operation, and maintenance of all traffic control signs, signals, and roadway markings in the City of New Orleans. Its functions further include the review of impact studies involving new development and the review and approval of all roadway closures and traffic control plans associated with construction projects, special events, and emergency situations. It is also responsible for the issuance of six exclusive types of permits and the collection of related revenues.

At present Darwin provides the following traffic engineering services:

- Technical support in the development or revision of traffic signal systems as it relates to equipment type and placement, display configuration, timing and sequencing parameters, and general design considerations; perform research of prospective development sites and perform comprehensive and detailed analyses of prevailing area traffic circulation patterns and projected trip ends in order to ascertain and evaluate the ultimate impact of the proposed land use; develop single and multi-phased traffic control plans for the safe and efficient operation of vehicular movements which are necessarily altered and/or impacted by construction projects, special events, or emergency situations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Casey M. Genovese, P.E.

Project Assignment:

Senior Roadway / Traffic Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

20 Years

Education: Degree(s)/Year Specialization:

Louisiana State University / B.S. / 2005 / Civil Engineering

Active registration: Year first registered/discipline:

2006 / Civil / LA License No. PE.0035327

Other experience and qualifications relevant to the proposed Project:

Genovese has been working at Linfield, Hunter & Junius, Inc. since he graduated from Louisiana State University in December 2005. He is currently working on numerous CVS Pharmacy projects throughout the state which include new water and sewer lines, new roadway work, utility design and **traffic engineering**. Genovese is in charge of the traffic work for all CVS/Pharmacy projects. His traffic and roadway expertise is often called upon when needed for other projects within the office.

CVS – KENNER, LA, WILLIAMS BLVD. & WEST NAPOLEON AVENUE

Genovese was Project Manager and Lead Civil Engineer for this project. The project included the design of all the paving and utilities including sanitary sewer, **storm drain**, potable and fire water, power and gas, and traffic design for this development.

CVS - COVINGTON, LA - LA 21 & LA 1085

Genovese was Project Manager and Lead Civil Engineer for this project. The project included the design of all the paving and utilities including sanitary sewer, **storm drain**, potable and fire water, power and gas, and traffic design for this development.

CVS - MEMPHIS, TN - US 64 & HOUSTON LEVEE ROAD

Genovese was Project Manager and Lead Civil Engineer for this project. The project included the design of all the paving and utilities including sanitary sewer, **storm drain**, potable and fire water, power and gas, and traffic design for this development.

CVS – KENNER, LA, WILLIAMS BLVD. & WEST NAPOLEON AVENUE

Genovese was Project Manager and Lead Civil Engineer for this project: **Traffic Impact Analysis and George Avenue Road Design**

Casey M. Genovese, P.E.

Resume

Project Assignment – Senior Roadway / Traffic Engineering

CVS - COVINGTON, LA - LA 21 & LA 1085

Genovese was Project Manager and Lead Civil Engineer for this project: **Resignalization and Intersection Restriping** from a signalized T-intersection to a signalized 4-way approach intersection.

CVS - MEMPHIS, TN - US 64 & HOUSTON LEVEE RD.

Genovese was Project Manager and Lead Civil Engineer for this project: **Road Widening, Intersection Restriping, Signal Pole Relocation & Resignalization**

CVS - DENHAM SPRINGS, LA - S. RANGE AVE. (LA 3002) & NORTH ST.

Genovese was Project Manager and Lead Civil Engineer for this project: **Design of a New Span Wire Traffic Signal including Intersection Restriping**

CVS - MEMPHIS, TN - PARK AVE. & S. HIGHLAND ST.

Genovese was Project Manager and Lead Civil Engineer for this project: **Intersection Radius Improvements, Signal Pole Relocation & Resignalization**

CVS - OPELOUSAS, LA - US 190 & WALLIOR ST.

Genovese was Project Manager and Lead Civil Engineer for this project: **Right Turn Lane Extension**

CVS - BOSSIER CITY, LA - AIRLINE DR. & WEMPLE RD.

Genovese was Project Manager and Lead Civil Engineer for this project: **Right Turn Lane Extension**



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

William J. Muller, P.L.S.

Project Assignment:

Senior Land Surveyor / Lead Surveyor

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

19 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.

Following is a small sampling of Muller's experience:

- I-10 Metairie - Causeway to Orleans Parish Line - Topo & Right-of-Way
- I-10 Metairie - Clearview to Causeway - Topo
- I-10 Metairie - Veterans Memorial Blvd. to Clearview - Topo
- I-10 Kenner - Williams Blvd. Interchange - Topo & Right-of-Way
- US 190 - Mandeville - Causeway to State Park - Topo & Right-of-Way
- US 190 - Slidell - Fremaux Interchange - Topo & Right-of-Way
- US 190 - Slidell - Fremaux- 9th to I-10 - Topo & Right-of-Way
- I-10 Slidell - LA 433 to US 190 - Topo
- US 190 Slidell - US 11 to Thompson Rd. - Topo & Right-of-Way
- St. Tammany Parish East of Abita Springs - New Highway from LA 36 to LA 435 - Topo & Right-of-Way
- LA 611 - Metairie Road - Topo & Right-of-Way
- I-10 New Orleans - S. Broad to St. Charles - Topo
- LA 3139 Earhart Blvd. - Jefferson/Orleans Parish Line to Clara St. - Topo & Right-of-Way
- Lakes Charles - McNeese/Airport - Right-of-Way

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cooper G. Ashworth, E.I.

Project Assignment:

Survey Coordinator

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

4 Years

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:

Ashworth is a civil engineer intern with experience on various civil and structural engineering projects and also as a dock inspection team member and structural designer. In addition to his engineering duties Ashworth coordinates all in-house survey projects. He is an FAA Licensed Remote Pilot and has experience in surveying with Drones and Total Stations.

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

Survey Coordinator and Party Chief. 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

Survey Coordinator. 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

Survey Coordinator. 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

Survey Coordinator and Party Chief. Topographic Survey Drafting, Drone Surveying, Photogrammetry

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Vincent J. Leco, III, P.E.

Project Assignment:

Civil Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

5 Years

Education: Degree(s)/Year Specialization:

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

Active registration: Year first registered/discipline:

Civil / LA License / PE.0047935

Other experience and qualifications relevant to the proposed Project:

Leco has been with LH&J since 2020. He has worked on various civil engineering projects including improvements to **major drainage structures, storm water management systems with green infrastructure, drainage pump stations, drainage studies**, new waterlines, new sewer lines, utility expansions and relocations, surveying and site design.

DOLLAR GENERAL STORES, VARIOUS LOCATIONS, TX

Civil Engineer. Site developments for Dollar General Stores at various locations throughout Texas. These site developments consist of parking lot design, site water and sewerage, **drainage and stormwater management systems including detention storage**.

TRACTOR SUPPLY STORES, VARIOUS LOCATIONS, LA

Civil Engineer. Site developments for Tractor Supply Stores at various locations throughout Louisiana. These site developments consist of parking lot design, site water and sewerage, **drainage and stormwater management systems including detention storage**.

HAYNE BOULEVARD RELIEF WELL DRAINAGE, NEW ORLEANS, LA

Civil Engineer. Prepared plans and specifications for the **connection of a relief well system into the existing subsurface drainage system** along Hayne Blvd. Work required design and detailing of a 12-inch water main offset.

DESIRE STREET NEIGHBORHOOD, NEW ORLEANS, LA

Civil Engineer. The project includes subsurface drainage improvements and roadway reconstruction on Piety St. from Florida Ave. to Higgins Blvd. The project also includes numerous paving incidental repairs and bringing all involved intersections to meet ADA code throughout Desire neighborhood and replacement of water, gravity sewer and **subsurface drainage**.

TEC Professional Services Questionnaire

Vincent J. Leco, P.E.

Resume

Project Assignment – Civil Engineer

MAGAZINE STREET ROADWAY IMPROVEMENTS, NEW ORLEANS, LA

Engineer Intern for the first phase of the project which consisted of the reconstruction of Magazine St. from Leake Avenue to East Drive. The reconstruction includes regrading, new striping, adjustment of utility manholes where applicable, replacement of subsurface utilities including water, gravity sewer and **subsurface drainage**, removal & replacement of roadways and sidewalks, and installation of ADA ramps. The total project includes 12,500 linear feet of 35' wide concrete roadway construction, which includes a heavy-duty asphalt pavement with an underlying aggregate base course. One section of Magazine Street, consisting of 2,000 linear feet within Audubon Park, requires a major realignment in order to incorporate turning lanes accessing the park's facilities.

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

Engineer Intern. Prepared final design plans and cost estimate for this project. The total project consists 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.

GEISENHEIMER CANAL IMPROVEMENTS, METAIRIE, LA

Engineer Intern. Assisted in design and detailing of a **8' x 12' covered canal box culvert** paralleling existing Geisenheimer drainage canal over a distance of approximately 2,800 linear feet. Box culvert is structurally integrated with existing drain lines at three junction box tie-in locations.

LOUMOR OUTFALL DITCH IMPROVEMENTS, METAIRIE, LA

Engineer Intern. Developed final plans for **two (2) new underground drainage lines**. One drainage line consists of **78" x 122" Reinforced Concrete Pipe Arch (RCPA)** segments along the existing drain line identified as Loumor Ditch combining for a length of approximately 1,300 linear feet. The second line consists of a **9' x 6' covered canal box culvert** spanning approximately 320 linear feet. These new segments will tie-into the existing below-grade Geisenheimer Canal box culvert that extends along Airline Drive.

VULCAN STREET, HARVEY, LA

Engineer Intern. Developed plans and specifications for **subsurface drainage system upgrades** and road replacement along Vulcan St. from Par 3 Dr. to Telestar St. The project includes removal and replacement of driveways, handicap ramps, and approximately 1,000 linear feet of 28' wide of concrete road.

MAF BUILDING 103 DRAINAGE STUDY, NEW ORLEANS, LA

Assisted project engineer in analyzing **hydraulics of the roof drainage system** for Building 103 Michoud Assembly Facility including the **subsurface drainage** under the building and extending to the pumped outfall canal and to recommend improvements to reduce ponding on the approximate 38 acre building roof.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric R. Wright, P.E.

Project Assignment:

Structural Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

5 Years

Education: Degree(s)/Year Specialization:

Louisiana State University/B.S./2020/Civil Engineering

Active registration: Year first registered/discipline:

2024 / Civil / LA License / PE.0049045

Other experience and qualifications relevant to the proposed Project:

Wright has been with LH&J since 2020 with experience predominantly in structural engineering analysis, design and detailing. His experience includes the analysis and design of bridges and **hydraulic structures** including major drainage structures such as flumes and box culverts and flood control structures such as levees, floodwalls, floodgates and bulkheads.

SPRUCE STREET COMPRESSION-FIT WATER TRANSMISSION LINE, NEW ORLEANS, LA

Designed and detailed modifications to an existing **covered reinforced concrete box culvert** to allow for the replacement of 30-inch diameter water main that crosses the box culvert.

CHARTENTON FLOODGATE REPLACEMENT, ST. MARY PARISH, LA

Performed structural engineering designs and drafting on this project which involved the layout and design of the major structural elements that comprise the **T-Walls, I-Walls** that tie into existing levees, and the design of the **floodgate structure**. Wright performed construction administration activities including reviewing shop drawing submittals, reviewing RFIs, and conducting site visits to document progress.

LUMBERTON FLOODGATE, LUMBERTON, NC

Assisted in the analysis and design for multiple parts of the project. Some of the parts include designing the **T-Walls, the drainage structures, and the temporary pile-supported steel bridge** for the railroad. Additionally, Wright provided quality assurance and quality control by checking calculations and drawings.

MORGANZA TO THE GULF OF MEXICO LEVEE, TERREBONNE PARISH, LA

Performed structural engineering designs and drafting on the **T-Walls and drainage structures** for this project. Wright also created a 3D model of the T-Wall and drainage structures to check for battered pile conflicts.

SELA 72.2 – GENERAL DE GAULLE DRIVE CANAL – PHASE 2, ALGIERS, LA

Performed structural engineering designs and drafting for the **cast-in-place concrete box culverts and flumes**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Almedin Tursunovic, E.I.

Project Assignment:

Civil Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

3 Years

Education: Degree(s)/Year Specialization:

Louisiana State University/B.S./2021/Civil Engineering

Active registration: Year first registered/discipline:

2022 / Civil / LA License / EI.0035219

Other experience and qualifications relevant to the proposed Project:

Tursunovic is a civil engineer intern who has been with LH&J since 2022. He has worked on various civil and structural engineering projects and has been a survey crew member on many topographic, boundary and hydrographic surveys.

DOLLAR GENERAL STORES, VARIOUS LOCATIONS, TX

Engineer Intern. Site developments for Dollar General Stores at various locations throughout Texas. These site developments consist of parking lot design, site water and sewerage, **drainage and stormwater management systems including detention storage**.

TRACTOR SUPPLY STORES, VARIOUS LOCATIONS, LA

Engineer Intern. Site developments for Tractor Supply Stores at various locations throughout Louisiana. These site developments consist of parking lot design, site water and sewerage, **drainage and stormwater management systems including detention storage**.

HAYNE BOULEVARD RELIEF WELL DRAINAGE, NEW ORLEANS, LA

Engineer Intern. Prepared plans for the **connection of a relief well system into the existing subsurface drainage system** along Hayne Blvd. Work required design and detailing of a 12-inch water main offset.

DESIRE STREET NEIGHBORHOOD, NEW ORLEANS, LA

Engineer Intern. The project includes subsurface drainage improvements and roadway reconstruction on Piety St. from Florida Ave. to Higgins Blvd. The project also includes numerous paving incidental repairs and bringing all involved intersections to meet ADA code throughout Desire neighborhood and replacement of water, gravity sewer and **subsurface drainage**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryce L. Vazquez, BSCE

Project Assignment:

Civil Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

4 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:

Since joining LH&J in 2021, Vazquez has received successively more responsible assignments. He has achieved a wide array of civil engineering experience with a focus in waterline and sewer line design, **subsurface drainage design and stormwater management systems including green infrastructure**. He began his career with LH&J as a resident inspector and is now regularly called upon during construction administration to coordinate with contractors and field personnel.

CANAL STREET IMPROVEMENTS, METAIRIE, LA

Vazquez performed construction administration for the final phase of this project that included repaving of Canal Street and with **new subsurface drainage** to tie the existing drainage into the new box culvert.

MAGAZINE STREET RECONSTRUCTION, NEW ORLEANS, LA

Vazquez assisted in the preparation of plans and performed quantity takeoffs for this project that consists of 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**, gravity sewer lines and water mains.

NEW ORLEANS COUNTRY CLUB RACQUET CENTER AND GOLF COURSE IMPROVEMENTS, NEW ORLEANS, LA

Vazquez prepared plans for this project that included **site drainage improvements and stormwater management systems with green infrastructure**. He also prepared a Stormwater Pollution Prevention Plan (SWPPP) for the work, prepared permit applications with the City of New Orleans and Louisiana Department of Transportation and Development and performed construction administration.

TEC Professional Services Questionnaire

Bryce L. Vazquez, BSCE

Resume

Project Assignment – Civil Engineering

VULCAN STREET DRAINAGE IMPROVEMENTS, JEFFERSON PARISH, LA

Vazquez performed construction administration for this project that included **drainage improvements** along Vulcan Street between Par 3 Drive and Telestar Street including replacement of gravity sewer, two waterline offsets, replacement of concrete roadway pavement, curbing, driveways and sidewalks. Vazquez coordinated resident inspection, reviewed inspector daily reports, reviewed contractor invoices and provided resident inspection on an as-needed basis.

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

Vazquez was the Resident Inspector for this **subsurface drainage project** that consisted of removing concrete walks and drives to install a new 1,130 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 monitored the work and contractor QC and QA activities, coordinated materials testing activities, verified contractor payment request quantities and prepared daily reports summarizing construction activities.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Alexander R. Stapp, E.I.

Project Assignment:

Roadway / Traffic Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

2 Years

Education: Degree(s)/Year Specialization:

Louisiana State University / 2023 / BS / Civil Engineering

Active registration: Year first registered/discipline:

2023 / Civil / LA License No. EI.0035492

Other experience and qualifications relevant to the proposed Project:

Stapp's experience has been in site development and traffic engineering. He has prepared traffic impact analyses and conducted traffic flow studies using SYNCHRO.

COMMERCIAL DEVELOPMENT – KENTWOOD, LA

Stapp assisted the Project Engineer in preparing a **Traffic Impact Analysis** for a new commercial development being constructed along a LADOTD highway. The pre-developed and post-developed Level of Service of four intersections within the surrounding road network was analyzed for three different access connection options to determine which iteration would be allowed for the development. Stapp utilized SYNCHRO to establish levels of service.

WEST NAPOLEON AVENUE EXTENSION – WILLIAMS BOULEVARD TO AIRPORT ACCESS ROAD – KENNER, LA

Stapp utilized SYNCHRO to evaluate traffic flow for a proposed extension of West Napoleon Avenue between Williams Boulevard and Airport Access Road. Several configuration alternatives were evaluated at the intersection of the proposed extension and Airport Access Road so that the preferred alternative could be selected for design. Findings were summarized in a report.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Daniel D. Bindewald

Project Assignment:

Survey Party Chief

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

15 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 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.

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. Construction cost was in excess of \$1.5 billion.

TEC Professional Services Questionnaire

Daniel D. Bindewald

Resume

Project Assignment – Survey Party Chief

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 benchmarks (TBMs) that were supported by 60-foot deep concrete filled boreholes. After construction of the TBMs he performed high precision ± 1.5 mm leveling surveys to tie the TBMs into the required vertical and horizontal datums. He also filed 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.

State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Paul H. Morales, IV

Project Assignment:

Survey Party Chief

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

12 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 2013 / 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

DESIRE NEIGHBORHOOD TOPOGRAPHIC AND SUBSURFACE SURVEY, NEW ORLEANS, LA

LH&J provided topographic surveying services for the project that consisted of the patching and reconstruction of 20,285 linear feet of roadway across 39 blocks, construction of new concrete roadway, replacement of the storm drainage system, sewer lines and water mains. Role: Survey Party

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

Paul H. Morales, IV
Project Assignment – Survey Party Chief

Resume

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





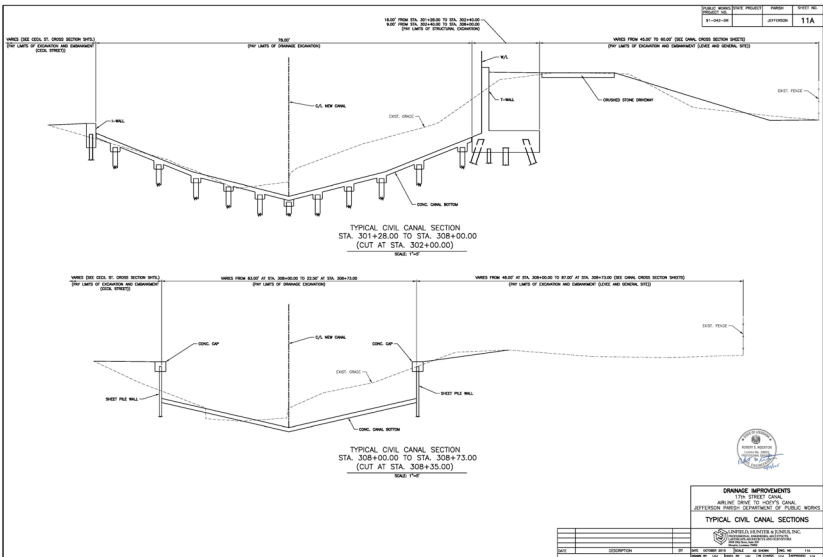
TEC Professional Services Questionnaire

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>Canal Street Improvements Jefferson Parish, LA</p> <p>Jefferson Parish Government Department of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123 Neil D. Schneider, P.E., CCM (504) 736-6833</p> <div style="display: flex; align-items: center; margin-top: 20px;">  <div style="text-align: center;">   </div> </div> | <p>Canal Street is a divided roadway with a drainage canal between the roadways. As part of the Jefferson Parish Bicycle Master Plan, a new double barrel box culvert was installed in the open canal and the canal was enclosed. New subsurface drainage was also installed to tie in existing drainage and to provide for future improvements.</p> <p>A second phase included the reconstruction of the roadway with upgraded subsurface drainage and the construction of a new linear park with bicycle path over the enclosed canal. Vehicular parking was added for visitors outside of the local neighborhood. Numerous green infrastructure elements such as native plantings, bioswales and pervious paving were incorporated.</p> <p>Linfield, Hunter & Junius, Inc. provided all engineering services required for this project, including preparation of a topographic survey, hydraulic analysis, preparation of plans and specifications, bid phase services, and construction phase services including resident inspection and coordination with private utilities.</p> <p>Key Features Related to this Solicitation: Subsurface Drainage (Box Culverts, Pipes and Drainage Structures); Hydraulic Analysis</p> <p>Key Personnel Participation: Nathan J. Junius, P.E., P.L.S., PTOE; Robert E. Nockton, P.E.; Mark K. Annino, E.I.; John M. Jackson, P.E.; Bryce L. Vazquez; Daniel D. Bindewald; Paul H. Morales, IV</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2024 A | \$13,100,000 | \$13,100,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 2 | | |
|--|--|--------------------------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>17th Street Canal Improvements Hoey's Canal to Airline Drive New Orleans, LA</p> <p>Sewerage & Water Board of New Orleans 8800 S. Claiborne Avenue New Orleans, LA 70118 Stephen Nelson, P.E. (504) 865-0650</p> <p>Department of Capital Projects Jefferson Parish 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123 Neil D. Schneider, P.E., CCM (504) 736-6833</p> <div style="text-align: center; margin-top: 20px;">   </div> | <p>The 17th Street Canal, which separates Orleans and Jefferson Parishes, drains most of Uptown New Orleans and 2,500 acres of Jefferson Parish. Between the late 1980's and late 1990's, the canal was widened and deepened from Drainage Pump Station No. 6 to the Hoey's Canal, a distance of approximately 4,300 feet, to increase conveyance capacity.</p> <p>This project deepened and widened the canal to 80-feet from the Hoey's Canal south to Airline Drive. This work included a new pile-supported concrete retaining wall on the Jefferson Parish side of the canal, a new pile-supported T-wall along the Orleans Parish side of the canal and a pile-supported concrete canal bottom between the walls.</p> <p>Cecil Street, located on the Orleans Parish side of the canal and adjacent to it, was heavily deteriorated and was anticipated to be worsened by construction. The project also included the reconstruction of the reach of Cecil Street within the project limits including replacement and upgrading of the local subsurface drainage system.</p> <p>Work also included the addition of green infrastructure along the banks of the canal including bioswales and native plantings.</p> <p>Key Features Related to this Solicitation: Major Drainage Structures (Open Canals); Subsurface Drainage; Green Infrastructure</p> <p>Key Personnel Participation: Nathan J. Junius, P.E., P.L.S., PTOE; Robert E. Nockton, P.E.; Mark K. Annino, E.I.; Daniel A. Flores, P.E.; Daniel D. Bindewald</p> <div style="text-align: center; margin-top: 20px;">  </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2017 A | \$10,600,000 | \$10,600,000 |




TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Hoey's Canal Drainage Improvements Phase II and III Jefferson Parish, LA</p> <p>Jefferson Parish Government Department of Drainage 1221 Elmwood Park Blvd, Suite 907 Jefferson, LA 70123 Clinton Hotard, P.E. (504) 736-6751</p> <div style="text-align: center; margin-top: 20px;">  </div> | <div style="display: flex;"> <div style="flex: 1;"> <p>The Hoey's Canal drains all the portion of Jefferson Parish in the 17th St. Canal Drainage Basin south of Airline Drive, approximately 1200 acres.</p> <p>Linfield, Hunter & Junius, Inc. prepared a funding application for a Louisiana State Wide Flood Control Grant for the lining of the Hoey's Canal from Betz Avenue</p> </div> <div style="flex: 1;">  </div> </div> <div style="display: flex; margin-top: 10px;"> <div style="flex: 1;">  </div> <div style="flex: 1; padding-left: 10px;"> <p>to Causeway Boulevard that was funded in 2003. This grant application included conducting a hydraulic and hydrologic analysis of proposed improvements to estimate project benefits. Work includes installing a structural concrete drainage flume supported on steel sheeting with adjoining slope paving. This design both improves drainage and stabilizes slopes on the canal that have been subject to sloughing and deterioration. The canal runs between two railroads, the CN Railroad and the New Orleans Public Belt Railroad. Accordingly, all work must be coordinated with these railroads.</p> <p>Construction of the first phase of the project from Betz Avenue to Deckbar Avenue was completed in 2011.</p> <p>Construction of a second phase of the project from Deckbar Avenue to Labarre Road was completed in 2014. This second phase also included a complex in-line pile-supported culvert beneath a railroad spur that crosses the canal near Labarre Road.</p> <p>Design of a third and final phase of the project extending the improved canal from Labarre Road to Causeway Boulevard is underway.</p> <p>Linfield, Hunter & Junius, Inc. was responsible for engineering design, preparation of plans and specifications, construction management, construction resident inspection and coordination with private utilities.</p> <p><u>Key Features Related to this Solicitation:</u> Major Drainage Structures (Open Canals and Box Culverts); Hydraulic and Hydrologic Analysis</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.; Daniel A. Flores, P.E.</p> </div> </div> | |
| <p style="text-align: center; background-color: #0070C0; color: white; padding: 5px;">Completion Date (Actual or estimated):</p> | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2018 A | \$15,000,000 | \$15,000,000 |



TEC Professional Services Questionnaire

| PROJECT NO. 4 | | |
|--|--|--------------------------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Hoey's Canal Bypass Jefferson Parish, Louisiana</p> <p>Jefferson Parish Government Department of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123 Neil D. Schneider, P.E., CCM (504) 736-6833</p> <div style="text-align: center; margin-top: 20px;">  </div> | <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;">  <p>Hoey's Canal south of Airline Drive to the Monticello Canal. This diversion of flow will be accomplished through the Hoey's Canal Bypass. The Hoey's Canal Bypass provides a more efficient hydraulic path to the Monticello Canal and Pumping Station No. 6, thus improving Jefferson Parish drainage significantly.</p> <p>LH&J prepared a funding application for a Louisiana Statewide Flood Control Grant for the Bypass Canal that was funded in 1998. This grant application included conducting a hydraulic and hydrologic analysis of proposed improvements to estimate project benefits. The project was divided into two phases and final designs were subsequently prepared by the firm in accordance with Louisiana Statewide Flood Program guidelines.</p> <p>Phase 1 of the canal consisted of a 25-foot wide by 5-foot high pile-supported concrete flume with concrete paved side slopes. Construction of Phase I was completed in 2006.</p> <p>Phase 2 of the canal consisted of a 31-foot wide by 10-foot high pile-supported concrete flume and a 31-foot wide by 10-foot high pile-supported covered concrete box culvert. Construction of Phase 2 was completed in 2015.</p> <p>Linfield, Hunter & Junius, Inc. was responsible for topographic surveying, engineering design, preparation of plans and specifications, construction management, construction resident inspection and coordination with private utilities.</p> <p>Key Features Related to this Solicitation: Major Drainage Structures (Open Canals and Box Culverts); Hydraulic and Hydrologic Analysis</p> <p>Key Personnel Participation: Robert E. Nockton, P.E.; Daniel A. Flores, P.E.; Daniel D. Bindewald</p> </div> <div style="width: 48%;">  </div> </div> <p>The Hoey's Canal drains the portion of Jefferson Parish in the 17th St. Canal Drainage Basin south of Airline Drive, approximately 1200 acres. Extensive improvements to the canal are necessary to upgrade drainage to the levels recommended in the 17th St. Canal Drainage Basin Study. One of the major improvements to the canal includes diverting the flow of the</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2015 A | \$4,600,000 | \$4,600,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|--|--|--------------------------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Livingston Place East and West Drainage Improvements Metairie, LA</p> <p>Jefferson Parish Government Department of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123 Neil. D. Schneider, P.E., CCM (504) 736-6833</p> <div style="text-align: center; margin-top: 20px;">  </div> | <div style="display: flex;"> <div style="flex: 1;">  </div> <div style="flex: 1; padding-left: 10px;"> <p>East and West Livingston are two residential roads in Old Metairie on the East Bank of Jefferson Parish. The subsurface drainage systems in each road were substandard resulting in heavy flooding during normal intense rainstorms. The firm identified subsurface drainage improvements needed during preparation of a master drainage plan for Old Metairie developed for the Jefferson Parish Government and was subsequently retained by</p> </div> </div> <p>the Parish to provide engineering services for reconstruction of the roadway and installation of the new subsurface drains.</p> <p>The project was funded by a Community Development Block Grant in the amount of \$2,000,000 with remaining funds supplied through the Louisiana State Capital Outlay program.</p> <p>Linfield, Hunter & Junius, Inc. was responsible for topographic surveying, engineering design, preparation of plans and specifications, construction management, construction resident inspection and coordination with private utilities.</p> <p>Key Features Related to this Solicitation: Subsurface Drainage; Roadway Pavement and Base; Subsurface Utilities; Sidewalks and Driveways; Handicap Ramps</p> <p>Key Personnel Participation: Nathan J. Junius, P.E., P.L.S., PTOE; Mark K. Annino, E.I.; Daniel D. Bindewald</p> <div style="text-align: center; margin-top: 20px;">  </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2015 A | \$5,000,000 | \$5,000,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 6 | | | | | | | | |
|---|--|-------------|-----------------|--------------------------------------|--------|--|-------------|-------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | | | |
| <p>Drainage Improvements to Cuddihy Drive and Woodvine Avenue Jefferson Parish, LA</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123 Neil D. Schneider, P.E., CCM (504) 736-6833</p> <div style="text-align: center; margin-top: 20px;">  </div> | <div style="display: flex; justify-content: space-between;">  <div style="width: 60%;"> <p>This project included the installation of one subsurface storm drain trunk line beneath the roadway along Cuddihy Drive and Woodvine Avenue. Catch basins were installed along the roadway at the curb line with lateral subsurface storm drain lines draining from the catch basin into the trunk line. All existing water house and sewer</p> <p>house connections were replaced. The existing roadway was reconstructed with new pavement base and portland cement concrete pavement surface. New concrete curb was installed along both edges of the roadway. Driveway aprons were replaced from the roadway to the existing property line.</p> <p>Linfield, Hunter & Junius, Inc. was responsible for topographic surveying, engineering design, preparation of plans and specifications, construction management, construction resident inspection and coordination with private utilities.</p> <p>Woodvine Avenue was designed as described above but not constructed due to budget limitations.</p> <p><u>Key Features Related to this Solicitation:</u> Subsurface Drainage; Roadway Pavement and Base; Subsurface Utilities; Sidewalks and Driveways; Handicap Ramps</p> <p><u>Key Personnel Participation:</u> Nathan J. Junius, P.E., P.L.S., PTOE; Robert E. Nockton, P.E.; Mark K. Annino, E.I.; William J. Muller, P.L.S.</p> </div> </div> | | | | | | | |
| <div style="background-color: #00a0e3; color: white; padding: 5px; text-align: center;">Completion Date (Actual or estimated):</div> | <div style="background-color: #00a0e3; color: white; padding: 5px; text-align: center;">Estimated Cost:</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #00a0e3; color: white;"> <th style="width: 35%; padding: 5px;">Entire Project:</th> <th style="width: 65%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; padding: 10px;">2009 A</td> <td style="text-align: center; padding: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$2,570,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$2,570,000</td> </tr> </table> </td> </tr> </table> | | Entire Project: | Work for which Firm was Responsible: | 2009 A | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$2,570,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$2,570,000</td> </tr> </table> | \$2,570,000 | \$2,570,000 |
| Entire Project: | Work for which Firm was Responsible: | | | | | | | |
| 2009 A | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$2,570,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$2,570,000</td> </tr> </table> | \$2,570,000 | \$2,570,000 | | | | | |
| \$2,570,000 | \$2,570,000 | | | | | | | |

TEC Professional Services Questionnaire

PROJECT NO. 7

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: |
|---|---|
| <p>Geisenheimer Basin Drainage Studies Jefferson Parish, LA</p> <p>Jefferson Parish Government 1201 Elmwood Park Blvd., Suite 906 Harahan, LA 70123 Neil Schneider, P.E., CCM (504) 736-6833</p> <div data-bbox="99 653 586 833" data-label="Image"> </div> <div data-bbox="342 913 570 1251" data-label="Image"> </div> | <p>The Geisenheimer Basin is an 1,100 acre drainage sub-basin bordered on the north and west by Metairie Road, on the east by the 17th St. Canal, and on the south by Airline Highway. The basin encompasses Old Metairie and forms a part of the 2,500 acre Hoey's Drainage Basin. Linfield, Hunter & Junius, Inc. was retained by Jefferson Parish to analyze drainage in the basin and prioritize needed improvements.</p> <p>The original study included hydrologic modeling of the drainage system and basin. Major tasks completed included collation of existing Flood Insurance Claims in the Basin to identify areas of repeated flooding; extension of levels throughout the basin to tie in finished floors of flooded structures, high water marks from the May 8, 1995 storm, and datum conversions between GIS datum and previous construction datums in the basin; development of stage storage relationships from the latest Jefferson Parish GIS elevations in the basin; development of stage-discharge relationships in the basin utilizing HEC-2 computer modeling; and calibration of a TR-20 hydrologic model to reflect actual flood levels experienced during the May 8, 1995 storm.</p> <div data-bbox="634 827 1511 1419" data-label="Figure"> </div> <p>The major findings of this study were that capital funds could be saved by utilizing overland flow to transport water during extreme rain events with major conveyance structures strategically located at important topographic locations to improve drainage. Another major finding was that the Southern Railroad Embankment formed an important hydrologic feature in the basin which had not been accounted for in previous FEMA studies in the basin. This study has served as the master plan for drainage in the basin since its publication in 1996. Identified projects were subsequently included in HEC-UNET modeling of the Hoey's Basin. The HEC-UNET model confirmed the results of the 1996 TR-20 models. It is expected that funding for identified projects will be obtained through the SELA program with \$8,000,000 of recommended construction projected.</p> <p>A follow-up study was performed in the mid-2000's to update and expand upon the findings and recommendations of the original study. Extensive additional hydraulic and hydrologic computer modeling was conducted using the most current versions of the HEC-RAS and HEC-HMS packages. One key feature of this new study was the detailed modeling of natural overland flow mechanisms within the basin in conjunction with collection system components. This was based upon the observation that during larger rainfall</p> |

events, the capacities of subsurface drainage conduits are exceeded and overland flow is the primary transport mechanism for excess stormwater runoff. Recommendations included improvements to the collection system to increase the capacity of primary subsurface conduits in the basin and enhancing natural features of the Pontiff Playground and Metairie Country Club Golf Course to better utilize the natural overland flow mechanisms in the basin so that excess stormwater flows in the basin are better managed.

The 2006 study report included an overall master plan showing necessary improvements throughout the basin to accommodate a 10-year design storm.

The mid-2000's study was recently updated to evaluate alternative improvements to those recommended in the 2006 report that crossed through the Pontiff Playground and Metairie Country Club Golf Course. One of those recommended alternatives is currently under design.

Key Features Related to this Solicitation:

Drainage Studies; Hydraulic and Hydrologic Modeling and Engineering; Subsurface Drainage; Stormwater Management

Key Personnel Participation:

Nathan J. Junius, P.E., P.L.S., PTOE; Robert E. Nockton, P.E.; Bryce L. Vazquez



**Jefferson
Parish**
State of Louisiana

| Completion Date (Actual or estimated): | Estimated Cost: | |
|--|-----------------|--------------------------------------|
| | Entire Project: | Work for which Firm was Responsible: |
| Ongoing | \$400,000 | \$400,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 8 | | |
|---|--|--------------------------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Rehabilitation and Upgrade of Magazine and Prytania Streets including Utilities New Orleans, LA</p> <p>City of New Orleans Dept. of Public Works 1300 Perdido St, Rm6W02 New Orleans, LA 70112 Tang Phan, P.E. (504) 565-6844</p> <div style="text-align: center; margin-top: 20px;">  </div> <div style="text-align: center; margin-top: 20px;">  </div> | <p>Magazine and Prytania Streets serve as major arterial roads for a bustling business area of the City of New Orleans. Complete closure of either of these streets would cripple, if not kill, many businesses in this area. Included as part of the design work is a major Construction Phasing Plan comprising seven (7) phases and six (6) different detour routes to keep the streets open to all merchants and their customers.</p> <p>The project requires the removal of over 24,000 linear feet of streetcar tracks that were buried under Magazine and Prytania Streets. The total project includes 16,000 linear feet of 35' wide concrete roadway, which includes a heavy duty concrete pavement with an underlying aggregate base course. One section of Magazine Street, consisting of 2,000 linear feet within Audubon Park, required a major realignment in order to incorporate turning lanes accessing the park's facilities.</p> <p>The drainage system is to be replaced with 10,500 linear feet of 15" to 24" drain pipes. Improvement of the sanitary sewer lines requires the replacement of 9,600 linear feet of 8" and 10" diameter sewer pipe, sewer manholes and house service connections. Approximately 11,800 linear feet of 8" and 12" water mains will also be replaced.</p> <div style="display: flex; align-items: flex-start;">  <div style="flex-grow: 1;"> <p>Linfield, Hunter & Junius, Inc. is coordinating the requirements and concerns of several entities, including the Sewerage & Water Board of New Orleans, Entergy, Cox Cable, the Downtown Development District, and local merchants' associations.</p> <p>LH&J is providing complete engineering services for this project including preliminary engineering, surveys, traffic engineering, geotechnical engineering, final design, and construction phase services including resident inspection.</p> <p><u>Key Features Related to this Solicitation:</u> Subsurface Drainage; Roadway Pavement and Base; Subsurface Utilities; Sidewalks and Driveways; Handicap Ramps</p> <p><u>Key Personnel Participation:</u> Nathan J. Junius, P.E., P.L.S., PTOE; Robert E. Nockton, P.E.; Mark K. Annino, E.I.; John M. Jackson, P.E.; William J. Muller, P.L.S.; Vincent J. Leco, P.E.; Bryce L. Vazquez; Cooper G. Ashworth, E.I.; Daniel D. Bindewald; Paul H. Morales, IV</p> </div> </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2025 E | \$10,000,000 | \$10,000,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | | | | | | | |
|---|--|--|--|-----------------|--|-----------------|--------------------------------------|-------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | | | |
| <p>Dillard University Student Union Site Development New Orleans, LA</p> <p>Dillard University 2601 Gentilly Boulevard New Orleans, LA 70122 Adonis Wood (504) 816-4375</p> <div style="text-align: center; margin-top: 20px;">  <div style="display: inline-block; vertical-align: middle;"> <p style="font-size: 2em; margin: 0;">DILLARD</p> <hr style="width: 50%; margin: 5px auto;"/> <p style="font-size: 2em; margin: 0;">UNIVERSITY</p> </div> </div> | <p>Linfield, Hunter & Junius, Inc. (LH&J) has functioned in several capacities including Program Manager, Master Planner and Consultant at Dillard University from 1998 to present. LH&J was engaged by Dillard University to oversee and design multiple infrastructure projects ranging from replacement of an aging sanitary sewer system to construction of a new loop water distribution system as well as improvement of campus-wide drainage facilities, roadways, parks, parking lots, tennis courts.</p> <p>The entire Dillard University Student Union Facility was designed as LEED Gold and is currently the largest LEED Gold facility in the New Orleans area. LH&J was responsible for the design of all the sitework in this project. The LEED Gold requirements for the sitework included water conservation facilities including bioswales, water reservoirs, natural filtration systems, an underground storm water storage system, and pervious pavements for water preservation and recycling.</p> <p><u>Key Features Related to this Solicitation:</u> Subsurface Drainage; Stormwater Management Facilities; Roadway Pavement and Base; Sidewalks and Driveways; Handicap Ramps; Green Infrastructure</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.</p> | | | | | | | |
| <div style="text-align: center;">    </div> | | | | | | | | |
| | <p style="text-align: center;">Completion Date (Actual or estimated):</p> <p style="text-align: center;">2013 A</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #00a0e3; color: white;"> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr style="background-color: #00a0e3; color: white;"> <th style="width: 50%; text-align: center; padding: 5px;">Entire Project:</th> <th style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">\$4,200,000</td> <td style="text-align: center; padding: 5px;">\$4,200,000</td> </tr> </tbody> </table> | | Estimated Cost: | | Entire Project: | Work for which Firm was Responsible: | \$4,200,000 |
| Estimated Cost: | | | | | | | | |
| Entire Project: | Work for which Firm was Responsible: | | | | | | | |
| \$4,200,000 | \$4,200,000 | | | | | | | |

TEC Professional Services Questionnaire

| PROJECT NO. 10 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Audubon Park Drainage Improvements New Orleans, LA</p> <p>Audubon Nature Institute 6500 Magazine Street New Orleans, LA 70118 Ms. Cecillie L. Halliwil, CPPB (504) 212-5325</p> <div style="text-align: center;">  <p>Audubon Nature Institute <i>Celebrating the Wonders of Nature</i></p> </div> <div style="margin-top: 10px;">  </div> <div style="margin-top: 10px;">  </div> | <p>Exposition Boulevard is a heavily trafficked pedestrian boulevard located along the eastern edge of Audubon Park in New Orleans, Louisiana. Numerous historic houses about the boulevard along its length and face the park.</p> <p>The area along Exposition Boulevard regularly floods during heavy rainfall events and the lowest levels of many of the houses adjacent to Exposition Boulevard also often flood. Drainage is provided by a subsurface collection system along Exposition Boulevard that connects to and discharges into the City of New Orleans drainage collection system at adjacent side streets. As a first step to improve the drainage along Exposition Boulevard, Linfield, Hunter & Junius, Inc. performed a study to develop a comprehensive conceptual plan for this area. This comprehensive conceptual drainage plan drainage identified necessary drainage improvements throughout the area, including those to increase subsurface collection system capacities and those to detain and manage storm water on site.</p> <p>A detailed topographic survey of Exposition Boulevard and adjacent areas of Audubon Park was initially performed. Locations of subsurface drainage facilities, cross sections and a grid of elevations were obtained. A map of the area, including contour grade lines, was developed.</p> <p>Next, a drainage analysis of the area along Exposition Boulevard was performed. To accomplish this, the existing drainage collection system along Exposition Boulevard and the adjacent side streets was hydraulically analyzed to identify areas requiring improvement. Once the existing drainage collection system was hydraulically analyzed, a conceptualized schematic plan of an improved drainage system within the study area was prepared. Numerous alternative improvements such as subsurface capacity improvements, stormwater diversion and management facilities and detention storage facilities were analyzed and recommended.</p> <p>The results of this work were documented in a bound report. Recommended drainage improvements and storm water management facilities were plotted on an overall map of the study area and a construction phasing program with preliminary construction cost estimates for the improvements were also provided.</p> <p><u>Key Features Related to this Solicitation:</u> Drainage Studies; Hydraulic and Hydrologic Computer Modeling; Stormwater Management; Analysis of Storm Water Detention Facilities</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2015 A | \$1.4 Million In Recommended Improvements Were Identified | \$1.4 Million In Recommended Improvements Were Identified |

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.

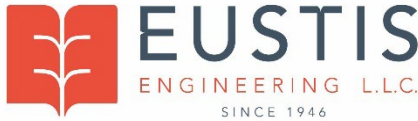
INTRODUCTION

Linfield, Hunter & Junius, Inc. (LH&J) is pleased to submit its proposal for the **Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project**. LH&J and previous firms have been providing quality engineering and architectural services for over 65 years and to Jefferson Parish since 1993. As the design engineering consultant for a number of previous drainage 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 these types of projects. Our past experience in Jefferson Parish gives us the knowledge and understanding of the needs for these types of drainage project. This along with our extensive experience in civil engineering design and land surveying puts LH&J in the unique position of being able to dive straight into the project without a learning curve. **LH&J will provide all in-house expertise and personnel for civil and structural engineering, hydraulic analysis, traffic engineering (if needed), land surveying and resident inspection.**

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 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.

TEC Professional Services Questionnaire



Eustis Engineering L.L.C. (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 provided the geotechnical services needed for this Solicitation directly to LH&J on numerous projects in the. Our professionals have a long and extensive history of working together 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. Their laboratory is validated by the USACE Materials Testing Center in Vicksburg, MS and is also accredited by AASHTO and ASTM.

Eustis will provide geotechnical investigations, laboratory testing, evaluations and geotechnical design recommendations for the LH&J Team.

Alphonse Barcia III Landscape Architect L.L.C. (ABLA) was founded in 2001. ABLA provides high quality design services with a diverse range of projects including institutional and commercial landscapes, gaming, multifamily properties, and residential properties. Recently ABLA worked with LH&J on landscaping around tennis courts including green infrastructure.

ABLA will provide landscape architecture services for the LH&J Team.

A. MINIMUM REQUIREMENTS FOR SELECTION

A.1 The persons or firm submitting a Statement of Qualifications 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., PTOE is a registered professional engineer in the State of Louisiana with over 24 years of experience in Civil Engineering projects including major drainage design, culvert design, roadway design, traffic design and project management.

A.2 The persons or firms submitting 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.

Nathan J. Junius, P.E., P.L.S., PTOE is a registered professional engineer in the State of Louisiana with over 24 years of experience in Civil Engineering projects including major drainage design, culvert design, roadway design, traffic design and project management.

Robert E. Nockton, P.E. is a registered professional engineer in the State of Louisiana with over 30 years of design experience in Civil Engineering projects including drainage design (subsurface collection, culverts, ditches, major drainage, pump stations, drainage studies), flood control (detention basins, levees and floodwalls), waterline design, sewerage design, water and wastewater treatment, roadway design, green infrastructure and project management.

TEC Professional Services Questionnaire

A.3 The persons or firms under consideration shall have one (1) employee who is a licensed, registered professional engineer in the State of Louisiana in the applicable discipline involved.

Linfield, Hunter & Junius, Inc. (LH&J) has twelve (12) full-time professional engineers registered in the State of Louisiana with over 100 years combined experience in drainage design and traffic engineering design. LH&J will make available as many as five (5) professional engineers for this project.

Nathan J. Junius, P.E., P.L.S, PTOE. is a Professional Land Surveyor registered in Louisiana with more than twenty-four (24) years of experience in conducting topographic surveys.

William J. Muller, P.L.S. is a Professional Land Surveyor registered in Louisiana with more than forty (40) 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.

Examination of the Resumes in Item K and the Project Descriptions in Item L demonstrates the extensive experience of our staff to provide the services required for this project.

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. has 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.

We anticipate the following services will be required for this project, and we have the complete team to provide these services:

- | | |
|--------------------------|----------------------------|
| ✓ Civil Engineering | ✓ Geotechnical Engineering |
| ✓ Structural Engineering | ✓ Land Surveying |
| ✓ Hydraulic Analysis | ✓ Landscape Architecture |
| ✓ Traffic Engineering | ✓ Resident Inspection |

Civil Engineering

Civil, structural engineering and hydraulic analysis will be performed by the team of Linfield, Hunter & Junius, Inc.

TEC Professional Services Questionnaire

Linfield, Hunter & Junius, Inc. (LH&J) is a premier drainage expert in the metropolitan New Orleans area. Our drainage studies have varied from as small as that of a site for a retail strip mall to as large as an entire parish. We are intimately familiar with every aspect of storm drainage design used to date in Jefferson Parish including **culverts, pump stations, drainage canals, detention basins, ditches, watershed management systems, subsurface drainage systems, floodwalls, levees, locks, gates** and many others. We have studied and designed a tremendous number of drainage facilities and structures for the **Jefferson Parish Department of Drainage**.

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

- ✓ Professional staff with well over 100 cumulative years of experience in drainage projects (see Item K).
- ✓ Firm background of over 40 years of major drainage experience.
- ✓ A proven track record of completed drainage projects from feasibility studies following through to completed construction.
- ✓ Recent completion of successful drainage projects which are relevant to this proposal.
- ✓ 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 areas of water system engineering. The following key personnel highlights this experience:

- Nathan J. Junius, P.E., P.L.S., PTOE / Principal in Charge – 24 years of drainage project experience
- Robert E. Nockton, P.E. / Project Manager – 30 years of drainage design experience including culverts, ditches, subsurface collection systems, major drainage canals, pump stations, detention basins, levees and floodwalls and drainage studies.
- Mark K. Annino, E.I. / Civil Engineering Team Leader – 30 years of drainage design experience including culverts, ditches, subsurface collection systems, major drainage canals, pump stations, detention basins, levees, floodwalls, locks and gates.
- John M. Jackson, P.E. / Lead Civil Engineer – 10 years of drainage design experience including culverts, ditches, subsurface collection systems, major drainage canals, detention basins, stormwater management systems and drainage studies.
- Daniel A. Flores, P.E. / Lead Structural Engineer – 17 years of structural design experience associated with drainage projects including major drainage canals, pump stations, levees, floodwalls, locks, gates and other flood control structures.

The firm has an extensive track record of major drainage and site work projects including development of the master plan for drainage in the 17th St. Canal Drainage Basin. The 10,000 acre 17th St. Canal Drainage Basin drains most of Uptown New Orleans and Old Metairie. This master plan has served as the basis of implementation of over \$80,000,000 dollars of drainage improvements since 1983. Linfield, Hunter & Junius, Inc. provided full design and contract administration services for over \$50,000,000 of these drainage improvements.

The firm has provided engineering services for Jefferson Parish, the City of New Orleans, Louisiana Department of Transportation and Development, Sewerage and Water Board of New Orleans, St. Charles Parish, U.S. Corps of Engineers, Port of New Orleans, U. S. Navy, Entergy Corporation and the Rouse Corporation and for numerous other clients since the mid 1970's. In the last 10 years the

TEC Professional Services Questionnaire

firm has been responsible for the design and contract administration of over \$100,000,000 of improvements.

Relevant projects in Jefferson Parish include:

- ✓ Canal Street Improvements
- ✓ 17th Street Canal Improvements
- ✓ Hoey's Canal Drainage Improvements (Phase II and III)
- ✓ Hoey's Canal Bypass
- ✓ Livingston Place East and West Drainage Improvements
- ✓ Cuddihy Drive and Woodvine Avenue Drainage Improvements
- ✓ Geisenheimer Covered Canal Improvements
- ✓ Geisenheimer Drainage Basin Study
- ✓ Update of the Geisenheimer Drainage Basin Study
- ✓ Hoey's Basin PAC
- ✓ Vulcan Street Drainage Improvements
- ✓ District 4 Covered Canal Study
- ✓ Loumor Outfall Ditch Improvements
- ✓ Russell Street Improvements



Cuddihy Drive Drainage Improvements



Geisenheimer Canal Improvements
Covered Canal

Land Surveying

Land surveying will be performed by the team of Linfield, Hunter & Junius, Inc.

Linfield, Hunter & Junius, Inc. (LH&J) has provided professional land surveying services to public and private clients throughout Southeastern Louisiana for over 20 years.

Linfield, Hunter & Junius, Inc. (LH&J) employs **two (2) full time Registered Professional Land Surveyors** and maintains **four (4) 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

TEC Professional Services Questionnaire

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

24 years experience

William J. Muller, P.L.S.

40+ years experience

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 in Item K above demonstrates that the firm has the professional training and experience to provide complete land surveying services.

Traffic Engineering

Traffic engineering will be performed by the team of Linfield, Hunter & Junius, Inc.

Linfield, Hunter & Junius, Inc. has a staff of engineers with significant traffic engineering experience. The following key personnel highlights this experience:

- Nathan J. Junius, P.E., P.L.S., PTOE / Traffic Engineering Team Leader – 24 years of traffic engineering experience
- Elmer N. Darwin, P.E., PTOE / Lead Traffic Engineer – over 40 years of traffic engineering experience
- Casey M. Genovese, P.E. / Senior Roadway/Traffic Engineer – 20 years of traffic engineering experience

TEC Professional Services Questionnaire

The traffic engineering team of Linfield, Hunter & Junius, Inc. (LH&J) has provided traffic engineering services for numerous projects including CVS/Pharmacy site developments to new signalization and traffic control plans.

Geotechnical Engineering

Geotechnical engineering will be performed by the team of Eustis Engineering, LLC. Please refer to the attached TEC Professional Services Questionnaire for qualifications and detail.

Landscape Architecture

Landscape architecture will be performed by Alphonse Barcia III Landscape Architect, LLC. Please refer to the attached TEC Professional Services Questionnaire for qualifications and detail.

B.2 Size of Firm

Linfield, Hunter & Junius, Inc. employs forty-three (43) 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 larger projects 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.

B.3 Capacity for Timely Completion of Newly Assigned Work

The designs of several large projects have been recently completed or are near completion. Therefore, we have a large engineering team available. The design of projects by this solicitation can be easily absorbed by the firm, as we have substantial reserve production capacity to meet any reasonable project scheduling.

Our current and projected firm capacity shown below indicates a 40% capacity shortfall by April 2025. The 15% capacity anticipated for this project would be very welcome and needed to maintain our current staff levels.



TEC Professional Services Questionnaire

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:

- **17th 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 began several weeks before the grant deadline date for construction.

- **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.

- **17th 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 in 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 17th St. Canal Interim Closure Structure.

TEC Professional Services Questionnaire

B.4 Past Performance by Person or Firm on Parish Contracts

The firm received its first Jefferson Parish contract in 1991 and has received over 100 contracts since then. Within the past 10 years alone we have received the following engineering projects from Jefferson Parish:

- Waterline Improvements along Lapalco Blvd. – Manhattan Blvd. to Bellemeade Blvd. – IN DESIGN
- Waterline Improvements along Lapalco Blvd. – Vulcan St. to Apollo Ave. – IN DESIGN
- Waterline Replacement – Shannon Lane E & W, Kendall Lane, Huntley Lane & Malvern Lane – IN DESIGN
- Waterline Replacement – N. Causeway Blvd. & Ridgelake Blvd. (Veterans Blvd. – 14th St.) and 15th St. to Veterans Blvd. (N. Causeway Blvd. – Tolmas Dr.) – IN DESIGN
- Feasibility Study for Waterline Improvements along Lapalco Boulevard - COMPLETED
- Hope Haven Natatorium – IN DESIGN
- East Bank Drainage Master Plan – IN DESIGN
- Update of the Geisenheimer Drainage Basin Study - COMPLETED
- W. Napoleon Extension to Airport Access Road – IN DESIGN
- Loumor Outfall Ditch Improvements - COMPLETED
- Vulcan Street Drainage Improvements - COMPLETED
- Vintage Boulevard Walking Trail - COMPLETED
- Bike Path along Jefferson/Orleans Parish Line – IN DESIGN
- District 4 Covered Canals Study - COMPLETED
- Ames Boulevard Resurfacing - COMPLETED
- Drainage Improvements - N. Sibley St. at W. Napoleon - COMPLETED
- Veterans Blvd. Drainage Canal Development Study - COMPLETED
- N. Hullen and Veterans Force Main Extension / Edenborn and Veterans Force Main Extensions with Lift Station Improvements - COMPLETED
- Canal Street Corridor Improvements - COMPLETED
- 17th Street Canal Improvements – Hoey's Canal to Airline Drive - COMPLETED

To the best of our knowledge, all public projects have been completed within the allotted design time and to the satisfaction of Jefferson Parish.

B.5 Location of Principal Office Where Work Will Be Performed

Linfield, Hunter & Junius, Inc. is located in Jefferson Parish at **3608 18th 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.6 Status of Current Litigation with Jefferson Parish

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

B.7 Prior Successful Completion of Projects of the Type and Nature of Engineering Services, as defined, for Which Firm Has Provided Verifiable References

Linfield, Hunter & Junius, Inc. has successfully completed many projects of the type and nature required by this solicitation. Some of these projects are described in Item L above. Additionally, examination of Resumes in Item K describe relevant personnel experience and firm experience. Verifiable references are listed in Item L.

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.
- 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”.
- 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.

TEC Professional Services Questionnaire

- **ACI awarded an Engineering Excellence Award** to the firm for design of the Metairie Road Bridge Project in 2000.

•
Major continuing repeat public clients include:

- ✓ *Jefferson Parish since 1991 (34 years)*
- ✓ *The Port of New Orleans since 1971 (54 years)*
- ✓ *U.S. Army Corps of Engineers since 1973 (52 years)*
- ✓ *Plaquemines Parish Government since 1973 (52 years)*
- ✓ *City of New Orleans since 1974 (51 years)*
- ✓ *U.S. Navy, Southern Division since 1975 (50 years)*
- ✓ *Sewerage & Water Board of New Orleans since 1979 (46 years)*
- ✓ *St. Charles Parish Government since 1994 (31 years)*
- ✓ *Tangipahoa Parish Government since 2006 (19 years)*

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.

Closing Statement

We are extremely interested in this solicitation.

Linfield, Hunter & Junius, Inc. has extensive experience in the design of drainage 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.

Signature:  _____

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

Title: **President**

Date: **February 5, 2025**

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

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

License/Certificate Information w/ Supervision

| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
|------------|--------|---------------------|-----------------|---|
| EF.0000510 | Active | 05/23/1979 | 03/31/2025 | Mr. Ralph William Junius Jr. # PE.0016053 |

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

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

License/Certificate Information w/ Supervision

| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
|------------|--------|---------------------|-----------------|--------------------------------------|
| VF.0000532 | Active | 06/15/2004 | 09/30/2026 | Mr. Nathan John Junius # PLS.0004958 |



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 25-005, Resolution No. 145576

Provide Professional Engineering Services for the Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project

B. Firm Name & Address:

Eustis Engineering L.L.C.

3011 28th Street, Metairie, Louisiana 70002

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

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

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

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

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

| | | |
|---|---------------------------------------|--|
| <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>17</u> Geotechnical Engineers | <u>3</u> Graduate Engineers |
| <u> </u> Civil Engineers | <u> </u> Interior Designers | <u> </u> Project Managers |
| <u> </u> Construction Inspectors | <u> </u> Landscape Architects | <u>11</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>5</u> Engineer Intern | <u> </u> Environmental Engineers | <u>47</u> Other |
| <u> </u> Professional Land Surveyors | | <u>92</u> TOTAL |

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

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

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

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

32

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 L.L.C. in 1993. Over the past 32 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 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 area, particularly in Jefferson Parish. 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 field investigations, 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 has dealt with 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 42nd annual conference. She has twice been named one of the 50 Women of the Year by New Orleans CityBusiness, first in 2017 and again in 2021. She is currently serving as an associate member of the ASCE Standards Committee for the Design of Foundations. She has a keen eye for detail and is a stickler for quality. Her work ethic, combined with her communication skills, translates to Mrs. Sanders' ability to deliver successful geotechnical engineering projects to her clients.

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

- **Jefferson Parish – Department of Public Works**, Proposed Pump Station, West Esplanade at the 17th Street Canal, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24427

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

- **Jefferson Parish** – Veterans Boulevard, Pump Stations, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 23396.00, .01, & 24426
- **Southeast Louisiana Flood Protection Authority – East**, East Jefferson Levee District, Gabrielle Subdivision Runoff Control Piping, Near the Duncan Canal Pump Station, Kenner, Louisiana, Eustis Engineering Project Nos. 22537, 23474, & 24245
- **Jefferson Parish** – Proposed Drainage Improvements, Geisenheimer Canal Between Loumor Ditch and Hoey's Cut, Metairie, Louisiana, Eustis Engineering Project No. 24281
- **City of New Orleans** – Milne Campus Storm Water Resilience Project, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project No. 23846

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| James J. Hance, P.E. / Senior Project Manager and Vice President (Finance) |
| Project Assignment: |
| Senior Project Manager / Limited Liability Corporation Member |
| Name of Firm with which Associated: |
| Eustis Engineering L.L.C. |
| Years' Experience with This Firm: |
| 21 |
| Education: Degree(s)/Year/Specialization: |
| Master of Business Administration / 2011 / Business Administration Master of Science / 2003 / Civil Engineering (Geotechnical) Bachelor of Science / 1998 / Civil Engineering |
| Active Registration: Year First Registered/Discipline: |
| Louisiana: 2004 / Civil Engineering Mississippi: 2012 / Engineering Texas: 2010 / Civil Engineering |
| Other Experience and Qualifications Relevant to the Proposed Project: |
| <p>For 3 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 as well as 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. 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 21 years with Eustis Engineering, L.L.C. 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 for new projects with clients, participating in business development and marketing ventures, and negotiating contracts.</p> <p>Some of his experience relative to this submittal includes the following:</p> <ul style="list-style-type: none"> • Jefferson Parish – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819 • Jefferson Parish – Hoey's Canal Drainage Improvements (Phases II and III), Deckbar Avenue to Labarre Road and Labarre Road to Causeway Boulevard, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 21458 & 22532.00, .01 |

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| Benjamin M. Cody, P.E. / Principal Engineer |
| Project Assignment: |
| Project Manager |
| Name of Firm with which Associated: |
| Eustis Engineering L.L.C. |
| Years' Experience with This Firm: |
| 23 |
| Education: Degree(s)/Year/Specialization: |
| Master of Science / 1999 / Civil Engineering Bachelor of Science / 1996 / Civil Engineering |
| Active Registration: Year First Registered/Discipline: |
| Louisiana: 2002 / Civil Engineering Mississippi: 2007 / Engineering Texas: 2014 / Civil Engineering Florida: 2001 / Engineering Alabama: 2003 / Engineering Arkansas: 2014 / Engineering |
| Other Experience and Qualifications Relevant to the Proposed Project: |
| <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 & 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 the 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 or commercial structures to multi-story high-rise structures, storage tanks, and other industrial facilities. Public projects have included general infrastructure, roads and bridges, port facilities, government buildings and facilities, schools, utilities, 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">• Jefferson Parish – Department of Public Works, Proposed Pump Station, West Esplanade at the 17th Street Canal, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24427• Jefferson Parish – Veterans Boulevard, Pump Stations, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 23396.00, .01, & 24426 |

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

- **Jefferson Parish** – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819
- **Southeast Louisiana Flood Protection Authority – East**, East Jefferson Levee District, Gabrielle Subdivision Runoff Control Piping, Near the Duncan Canal Pump Station, Kenner, Louisiana, Eustis Engineering Project Nos. 22537, 23474, & 24245
- **Jefferson Parish** – Proposed Drainage Improvements, Geisenheimer Canal Between Loumor Ditch and Hoey's Cut, Metairie, Louisiana, Eustis Engineering Project No. 24281
- **Jefferson Parish** – Hoey's Canal Drainage Improvements (Phases II and III), Deckbar Avenue to Labarre Road and Labarre Road to Causeway Boulevard, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 21458 & 22532.00, .01
- **Jefferson Parish** – L & A Road Improvements, Dakin Street to Earhart Expressway, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24196

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
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| Name & Title: |
| Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering) |
| Project Assignment: |
| Project Manager |
| Name of Firm with which Associated: |
| Eustis Engineering L.L.C. |
| Years' Experience with This Firm: |
| 12 |
| Education: Degree(s)/Year/Specialization: |
| Master of Science / 2010 / Civil Engineering Bachelor of Science / 2007 / Civil Engineering |
| Active Registration: Year First Registered/Discipline: |
| Louisiana: 2013 / Civil Engineering |
| Other Experience and Qualifications Relevant to the Proposed Project: |
| <p>For his first 5 years after graduation, Mr. Walsh was a Project Engineer on numerous projects in New York and the New Orleans metropolitan area where he gained experience in civil, geotechnical, and geo-environmental engineering projects for a variety of public and private clients.</p> <p>Since joining Eustis Engineering in 2012 as a Project Engineer, Mr. Walsh has been responsible for developing and managing engineering package preparations (e.g., engineering design and analysis, reporting, developing construction and permit drawings, contract specifications, cost estimates, and design reporting) for a diverse range of design and analysis projects including deep foundations, excavation support systems, utility foundations, slope stabilization, solid waste closure systems, levee inspection/safety, and seepage modeling.</p> <p>Mr. Walsh was promoted to Project Manager in 2017, Engineering Manager in 2019, and Vice President in 2020. Mr. Walsh is also a graduate of the 2017 New Orleans Regional Leadership Institute (NORLI), a 1-year training program designed to help shape community leaders.</p> <p>During his employment with Eustis Engineering, Mr. Walsh has provided engineering services on more than 900 projects. Mr. Walsh has risen to the level of Vice President and Engineering Manager, in which he is responsible for personnel resource allocation, the overall engineering schedule, and execution of engineering services. Mr. Walsh also functions as a mentor to the engineering staff.</p> <p>A large portion of Mr. Walsh's experience, before and after joining Eustis Engineering, involved development of design and construction recommendations associated with flood protection systems in southeastern Louisiana. Mr. Walsh has served as the project engineer and project manager responsible for the development and implementation of geotechnical exploration programs; development of soil testing laboratory programs; and interpretation of the results to evaluate strength, compressibility, and general soil characterization. Mr. Walsh used these data for geotechnical designs comprising pile capacity curves; bearing capacity analyses; cantilever retaining analyses; anchored retaining wall analyses; temporary retaining structure design; time-settlement projections for earthen levees with lift schedules; soil pressure profiles; structural and earthen levee under seepage analyses; levee and bank stability by Spencer's Method of Slices and Method of Planes; reinforced embankment design; stability analyses of flood protection walls (e.g., T-walls, I-walls, L-walls, and braced 'A-Frame' walls); downdrag and settlement analyses; settlement induced bending moments (SIBM) in foundation piles; piping analyses; uplift analyses; heave analyses; three-dimensional modeling of fill and structural load placements for predictions of time-rate settlements of foundation systems; and</p> |

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)

numerical modeling of soil-structure interaction (SSI) of flood protection structures by the finite element method (FEM).

Mr. Walsh has also worked on many local government projects in towns and cities including New Orleans, Golden Meadow, and Kentwood; numerous projects in Jefferson, Orleans, St. Bernard, St. Charles, and Plaquemines Parishes; several Port Commissions (e.g., Baton Rouge, New Orleans, South Louisiana); the Sewerage & Water Board of New Orleans; etc.

Regardless of the types of projects engineered for these agencies, his responsibilities have remained the same; namely, defining the project philosophy; developing and maintaining the schedule; providing status reports to clients; controlling expenditures; overseeing project personnel; and reviewing the project design for compliance with engineering principles, company standards, and client requirements. He is hands-on in coordinating activities concerned with technical developments and in resolving engineering design/test problems.

Mr. Walsh's skills over the past 17 years in the industry have developed exponentially with the variety of projects that have crossed his desk. Regarding this submittal, Mr. Walsh has been directly involved with the following projects:

- **Gretna City Park** – Proposed Water Capacity Improvements, 910 Gretna Boulevard, Gretna, Louisiana, Eustis Engineering Project No. 24290
- **Jefferson Parish** – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819
- **City of New Orleans** – St. Anthony Green Streets, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project Nos. 23849.00, .01
- **Jefferson Parish** – Proposed Drainage Improvements, Geisenheimer Canal Between Loumor Ditch and Hoey's Cut, Metairie, Louisiana, Eustis Engineering Project No. 24281
- **City of New Orleans** – Milne Campus Storm Water Resilience Project, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project No. 23846

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Operations Manager / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

30

Education: Degree(s)/Year/Specialization:

Associate of Applied Sciences / 1998 / Safety

Active Registration: Year First Registered/Discipline:

LA Driller's License /2013

Other Experience and Qualifications Relevant to the Proposed Project:**Accreditations / Affiliations / Certifications**

American Society of Certified Engineering Technicians
Confined Space Entry Certification
Greater New Orleans Industrial Education Council Safety Training
Medic First Aid and CPR Course 2015
HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges

International Code Council: Soils Special Inspector

National Institute for Certification in Engineering Technologies:

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

10-Hour OSHA Training

Transportation Workers Identification Card (TWIC)

Registered Well Driller for the States of Louisiana and Mississippi

Professional Experience

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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

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

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

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

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

In 2013, Mr. Rome added the CMT Department under his operational duties in addition to his operational duties within the lab and drilling departments. Mr. Rome works closely with the operations supervisor for CMT, overseeing the department's daily objectives, reviewing reports, reviewing invoices, addressing staffing needs, fleet management, as well as other duties.


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| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations) |
| Mr. Rome has direct involvement with the following projects related to this submittal: <ul style="list-style-type: none">• Jefferson Parish – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819• City of New Orleans – St. Anthony Green Streets, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project Nos. 23849.00, .01• City of New Orleans – Milne Campus Storm Water Resilience Project, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project No. 23846 |

| PROJECT NO. 01 | |
|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: |
| <p>Jefferson Parish Department of Public Works Proposed Pump Station West Esplanade at the 17th Street Canal Jefferson Parish, Louisiana Eustis Engineering Project No. 24427</p> <p>Contact Information: Jefferson Parish Through ECM Consultants, Inc. Suite 200 1301 Clearview Parkway Metairie, Louisiana 70001 Sunina Shrestha, P.E. @ 504-885-4080</p> | <p>Jefferson Parish proposed a pump station at the intersection of the 17th Street Canal and West Esplanade Avenue in Metairie, Louisiana. The pump station would be built on the west bank of the canal.</p> <p>The pump station was planned to have approximate dimensions of 50' x 36' with a sump depth of approximately 18 feet. A new 78" x 122" arch-shaped reinforced concrete pipe would feed collected drainage water to the pump station. A new generator pad with approximate plan dimensions of 16' x 37' would be located southwest of the pump station.</p> <p>Discharge pipes, 32 inches in diameter, would be installed from the pump station, extending over the levee and floodwall to discharge stormwater from the pump station into the 17th Street Canal. The discharge pipes were to be pile-supported on the land and flood sides of the levee and floodwall.</p> <p>Eustis Engineering performed engineering analyses based on data obtained from previous subsurface explorations at the site supplemented by those in the project area.</p> <p>The scope of service for this project included compiling and updating geotechnical analyses from previous reports that were still applicable to the pump station plans. These previous analyses included deep-seated global stability analyses, seepage potential evaluation, and estimates of pile load capacities for various types and sizes of piles.</p> <p>We performed supplemental deep-seated global stability analyses to provide an alternative analysis as part of the Safety Assurance Review (SAR) required by the U.S. Army Corps of Engineers (USACE) for the construction permit application. We also furnished supporting documentation for temporary retaining structure (TRS) design as well as seepage and heave analyses. Finally, we generated recommendations for general site preparation and foundation construction procedures.</p> <p>Eustis Engineering was later requested to complete additional supplemental geotechnical engineering services due to the installation of a limited number of piles within the existing I-wall berm for the support of the discharge pipe not being approved by the USACE. Our updated geotechnical design report will include:</p> <ul style="list-style-type: none"> • results of deep-seated stability analyses, • results of T-wall stability analyses, • results of seepage analyses, • an evaluation of TRS design concepts, • estimates of allowable pile load capacity, and |

| PROJECT NO. 01 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| | <ul style="list-style-type: none"> general construction recommendations. <p>Our services will also include a review of the geotechnical aspects of selected sections of the plans and specifications. Namely, we will provide feedback on the implementation of our recommendations for the dewatering and pressure relief measures associated with the pump station excavation in proximity to the flood protection. We will also review the TRS submittal requirements outlined in the specifications.</p> | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 09/2025 (E) | Unknown | \$40,720 (to date) |

| PROJECT NO. 02 | |
|--|--|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: |
| <p>Jefferson Parish Veterans Boulevard Drainage Pump Stations Jefferson Parish, Louisiana Eustis Engineering Project Nos. 22024, 22631, 23396.00-.01, and 24426.00-.01</p> <p>Contact Information: Jefferson Parish Through ECM Consultants, Inc. Suite 200 1301 Clearview Parkway Metairie, Louisiana 70001 Sunina Shrestha, P.E. @ 504-885-4080</p> | <p>Two new drainage pump stations are proposed on the north and south sides of Veterans Memorial Boulevard at the 17th Street Canal. Each of these pump stations will discharge into the 17th Street Canal. Due to a planned bike path along the hurricane protection floodwall, these discharge pipes will need to penetrate the flood protection. As a result, plans called for the replacement of portions of the existing West 17th Street Canal I-walls (which cannot be penetrated and still comply with the U.S. Army Corps of Engineers' [USACE] guidelines) with T-walls. Both pump stations would require demolition of approximately 20 feet of existing concrete I-wall for installation of the new T-wall in order to accommodate a discharge pipe through each wall. Access gates will also be provided as part of the floodwall modifications. For additional data at the site, Eustis Engineering L.L.C. used soil boring and laboratory test data contained in our own files from prior explorations as well as data obtained through a Freedom of Information of Act request to the USACE.</p> <p>Due to the modifications to the flood protection, a safety assurance review (SAR) was conducted by an independent reviewer. The SAR included a review of the plans and specifications as well as design reports and calculations. Comments from the SAR were incorporated into the permit package submitted to the review agencies. The project plans have civil, structural, mechanical, and electrical components. Engineering analyses for the evaluation of the proposed T-wall to support the construction permit application and the SAR followed the USACE's <u>Hurricane and Storm Damage Risk Reduction System Design Guidelines</u>, dated June 2012. Global and local stability analyses were performed to evaluate the design and construction of the T-wall, including temporary flood protection (TFP) and temporary retaining structures (TRS). Stability analyses were also performed to address construction dewatering requirements for the pump station excavation with respect to the existing and proposed flood protection.</p> <p>Our work to support the design included estimates of allowable axial pile load capacity for piles supporting the T-wall foundations as well as the pump station and discharge pipes. We also performed analyses to evaluate the potential for seepage and heave during and after construction for the proposed features. New generator pads were located adjacent to each pump station to house controls outside the new intake excavation.</p> <p>Eustis Engineering is currently performing Engineering During Construction (EDC) services as required by the SAR. To date, we have responded to contractor requests for information (RFIs) and have performed submittal reviews. The EDC submittal reviews include the test pile program (TPP) plan, TRS and TFP methods, and sequences</p> |

| PROJECT NO. 02 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| | proposed by the contractor. We evaluated the results of the TPP to confirm the design pile capacity as well as installation criteria. We will review the results of geotechnical instrumentation to monitor the excavation and dewatering, including piezometers and inclinometers. | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 09/2025 (E) | Unknown | \$147,950 (to date) |

| PROJECT NO. 03 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Gretna City Park Proposed Water Capacity Improvements 910 Gretna Boulevard Gretna, Louisiana Eustis Engineering Project No. 24290</p> <p>Contact Information: Gretna City Park Through Waggoner & Ball Architects, APC 2200 Prytania Street New Orleans, Louisiana 70130 Andy Sternad @ 504-524-5308</p> | <p>Open-air pavilion and pedestrian bridge structures were anticipated as part of the Gretna City Park upgrades. The pavilion structure would consist of an approximate 25' x 30' timber frame structure.</p> <p>In the field, Eustis Engineering's drill crew completed nine undisturbed soil borings, varying in depth from 10 to 75 feet below the existing ground surface. Additionally, our personnel performed two infiltration tests on site using the Compact Constant Head Permeameter (Amoozemeter®) procedure. Following the field investigation, our Metairie laboratory conducted natural water content, unconfined compression shear, and one-point unconsolidated undrained triaxial compression shear tests to inform the engineering design.</p> <p>Engineering analyses and recommendations included the following:</p> <ul style="list-style-type: none"> • slope stability analyses; • site preparation recommendations including drainage (both during construction and permanent) and subgrade preparation. • fill selection as well as its recommended compaction and its estimated settlement; • estimates of load capacity for treated ASTM D25 quality timber piles, as well as settlement estimates; • pile installation recommendations; • pavement design; and • material recommendations including components of the pavement itself and the use of geotextiles.  | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 04/2020 (A) | Unknown | \$13,250 |

| PROJECT NO. 04 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Jefferson Parish Jung and Falcone Lift Station Upgrades (K-11-3) New Sanitary Sewer Lift Station Marrero, Louisiana Eustis Engineering Project No. 23819</p> <p>Contact Information: 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"> • recommendations for site preparation encompassing temporary and permanent drainage, dewatering and pressure relief of excavations, and ways to limit lateral movement; • methods for excavation, base preparation, and bedding associated with the sanitary gravity sewer line, wet well, and valve box; • estimates of lateral earthen pressures; • recommendations for material placement and compaction of backfill for the force main and sanitary sewer line; • allowable soil bearing value recommendations for the wet well and valve box; • allowable pile load capacities, in compression and tension, for treated ASTM D25 quality timber piles; and • settlement estimates for both ground-supported and pile-supported project features. | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 06/2018 (A) | Unknown | \$4,900 |

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

| PROJECT NO. 06 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>City of New Orleans St. Anthony Green Streets Programming and Design Services New Orleans, Louisiana Eustis Engineering Project Nos. 23849 and 23849.01</p> <p>Contact Information: City of New Orleans Through Batture LLC 500 Crystal Street New Orleans, Louisiana 70124 Robert Mora, P.E. @ 504-533-8644</p> | <p>The St. Anthony Green Streets project was initiated to reduce flooding and subsidence risks within the St. Anthony neighborhood, a subset of the Gentilly Resilience District in New Orleans, Louisiana. Project improvements were planned along Wildair Drive and Windgate Drive between Allen Toussaint Boulevard (formerly Robert E. Lee Boulevard) and Filmore Avenue. In addition, the Filmore Gardens and Eddie Gatto Playgrounds were incorporated into the project. The City of New Orleans proposed new green infrastructure and stormwater management features comprising rain gardens, bioswales, permeable sidewalks, and other landscape features used for the detention and infiltration of rainwater.</p> <p>Based on previous explorations performed in proximity to the subject site, the geology was characterized by fill, drained marsh, and inland swamp deposits overlying a relic beach. Surficial materials overlying the deposits, as mapped by the Natural Resource Conservation Service, comprised heavy clay. Eustis Engineering was requested to perform a field exploration and engineering analyses to evaluate how this clay, and its ability to infiltrate water, would impact the project.</p> <p>Eustis Engineering drilled 13 soil borings using our track-mounted Geoprobe® rig with a Macro-Core® sampler. Five borings were drilled to depths of 20 feet, and eight borings were drilled to depths of 10 feet. These depths were chosen to assist in defining the depths and locations of the relic beach sand deposits. Samples obtained from the borings were subjected to soil mechanics laboratory tests comprising visual classification, natural water content, Atterberg liquid and plastics limits, and percent passing the U.S. Standard No. 200 mesh sieve. Swell pressure and percent swell tests were performed to determine the magnitude of shrink/swell potential of the subsoils.</p> <p>Engineering analyses were performed to evaluate the shrink/swell potential of the existing subsoils, heave potential due to water infiltration, estimates of allowable soil bearing values, recommendations for fill placement and compaction as well as pavements, and general construction procedures.</p> <p>Eustis Engineering was later asked to perform supplemental services consisting of the installation of open well standpipes piezometers and data monitoring for a duration of one year. Piezometer installation locations were selected by Eustis Engineering based on design recommendations. This instrumentation was installed in areas of possible subsidence and potential stormwater infiltration or retention zones.</p> | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 01/2020 (A) | Unknown | \$24.500 |

| PROJECT NO. 07 | | |
|---|---|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Jefferson Parish Proposed Drainage Improvements Geisenheimer Canal Between Loumor Ditch and Hoey's Cut Metairie, Louisiana Eustis Engineering Project No. 24281</p> <p>Contact Information: Jefferson Parish Through Design Engineering, Inc. Suite 205 3330 West Esplanade Avenue Metairie, Louisiana 70002 John Holtgreve, P.E. @ 504-836-2155</p> | <p>Drainage improvements were planned for a portion of Geisenheimer Drainage Canal between Loumor Ditch and Hoey's Cut in Metairie, Louisiana. A new box culvert would be installed north of and parallel to the existing Geisenheimer Drainage Canal over a distance of approximately 2,800 linear feet. The purpose of this project was to increase flow capacity. Tie-ins in the form of junction boxes would be required at three locations including the new and existing Loumor Ditch, Woodvine Ditch, and at Hoey's Cut. The existing covered canal generally consisted of an 8' x 15' box culvert supported by timber piles. A section of the Hoey's Cut covered canal indicated a 9.5' x 25' structure comprising concrete sheetpiles as the sidewalls. The new structure was planned to be an 8' x 12' box culvert supported at grade.</p> <p>Eustis Engineering had previously performed geotechnical explorations for prior project phases. To supplement these historic data, Eustis Engineering performed four cone penetration tests (CPTs) to a depth of 60 feet each below the existing ground surface. The CPTs were made with a track-mounted cone penetrometer rig. This exploration scope was selected to expedite the project schedule and keep field costs contained.</p> <p>Geotechnical engineering recommendations for the project included site preparation, managing drainage during and after construction, identifying demolition of existing features interfering with new construction, and the need for a temporary retaining structure (TRS) for excavations.</p> <p>Eustis Engineering analyzed at least one concept of a TRS considering application of factors of safety to the sheetpile penetration or to the soil design parameters. Other considerations for the TRS included recommendations for construction sequence; excavation; dewatering; lateral movement and soil subsidence; preparation of the excavation base; the bridge lift and bedding; sealant slab; and material selection and compaction for structural, non-structural, and embankment fill.</p> <p>Our personnel also analyzed earth and water pressures associated with the box culvert as well as the use of a grade-supported culvert base slab. Analyses associated with the slab included allowable soil bearing values, net applied pressure intensity, and settlement estimates. Differential settlement was considered in association with pavements, the existing pile-supported box culvert, and underground utilities.</p> | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 03/2020 (A) | Unknown | \$12,100 |

| PROJECT NO. 08 | |
|--|--|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: |
| <p>Jefferson Parish Hoey's Canal Drainage Improvements (Phases II and III) Deckbar Avenue to Labarre Road and Labarre Road to Causeway Boulevard Jefferson Parish, Louisiana Eustis Engineering Project Nos. 21458, 22532, and 22532.01</p> <p>Contact Information: Jefferson Parish Through Linfield, Hunter & Junius, Inc. 3608 18th Street Metairie, Louisiana 70002 Robert Nockton, P.E. @ 504-833-5300</p> | <p>Eustis Engineering has performed multiple geotechnical explorations dating back to 1966 along Hoey's Canal for various modifications and improvements. Phases II and III of the proposed drainage improvements along Hoey's Canal included the deepening and lining of the canal using sheetpile walls and concrete slope paving for the upper slopes of the canal. Phase II extended from Deckbar Avenue (LA Highway 3139) to the railroad crossing near Labarre Road in Jefferson Parish, Louisiana. This portion of the drainage improvements was approximately 1,715 feet long and was a continuation of an earlier phase of the project that extended from Deckbar Avenue to Betz Avenue (approximately 805 feet long) tying into an existing sheetpile-lined canal. Phase III consisted of improvements to approximately 1,625 feet of Hoey's Canal from Causeway Boulevard to Labarre Road. Eustis Engineering was retained for Phase III because of our ability to deliver high quality geotechnical recommendations in a timely fashion to our clients and to Jefferson Parish.</p> <p>For Phase II, Eustis Engineering drilled four undisturbed soil test borings using a truck-mounted, rotary-type drill rig. We drilled one soil boring to a depth of 130 feet and three borings to depths of 60 feet below the existing ground surface. For the Phase III exploration, we utilized data from one of the soil borings we obtained in Phase II in addition to drilling three borings to depths of 60 feet with a low ground pressure track-mounted drill rig. We coordinated with the New Orleans Public Belt Railroad (NOPBR) and Jefferson Parish to ensure our field exploration was performed safely and met the NOPBR and Parish requirements. The Phase III borings were drilled on the southern side of the canal because borings were not feasible on the northern side due to overhead electrical lines. Eustis Engineering performed soil mechanics laboratory tests on samples obtained from the borings during Phases II and III to evaluate the physical properties of the subsoils.</p> <p>Based on existing data, soil borings, and laboratory test results, Eustis Engineering provided recommendations regarding site preparation, sheetpile analyses, global stability analyses, estimates of allowable pile load capacities for alternative flume support, estimates of allowable pile load capacities for the railroad bridge which would replace an existing culvert, and general construction recommendations. We also evaluated dewatering/pressure relief and heave which were major design challenges due to a shallow subsurface sand deposit located near the bottom of the deepened canal.</p> <p>For Phase II, we provided supplemental engineering analyses which included addressing requests for information posed by the construction contractor and evaluating the pile load capacity results from a static load test program. Our Phase III engineering scope addressed geotechnical related issues during construction with the</p> |

| PROJECT NO. 08 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| | <p>construction contractor.</p> <p>We also performed additional engineering analyses for the project after our client discovered a new NOPBR track closer to Hoey's Canal. This new construction altered the cross-sections we evaluated in our previous study, requiring an evaluation of the impact on the proposed walls within Hoey's Canal.</p> | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 03/2017 (A) | Unknown | \$37,800 |

| PROJECT NO. 09 | | |
|---|---|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Jefferson Parish L & A Road Improvements Dakin Street to Earhart Expressway Jefferson Parish, Louisiana Eustis Engineering Project No. 24196</p> <p>Contact Information: Jefferson Parish Through Linfield, Hunter & Junius, Inc. 3608 18th Street Metairie, Louisiana 70002 Anthony Goodgion @ 504-833-5300</p> | <p>Jefferson Parish proposed drainage improvements near the intersection of L & A Road and Blue Jay Way near a commercial section of Jefferson Parish.</p> <p>The Department of Public Works proposed a new box culvert be constructed within the existing 70-ft wide 11-ft deep Hoey's Canal. The new culvert, measuring 21 feet wide, with a 23-ft wide base, would span across approximately 340 linear feet along the southern stretch of L & A Road.</p> <p>Based on furnished data, we understood the culvert floor and top surface elevations would require 2 to 3 feet of fill above the culvert roof. In addition, the annular space between the existing canal bank and the culvert side walls would be backfilled to create a smooth transition between the existing canal bank crowns and the grade above the culvert.</p> <p>Two paved access roads would cross the culvert perpendicularly. Lastly, the southern end of the culvert would transition to the existing canal bank slopes with the assistance of wingwalls. Eustis Engineering was requested to analyze the culvert supported on shallow and deep foundations.</p> <p>We directed our drill crew to conduct one soil boring to a depth of 75 feet in the approximate culvert footprint. We then selected soil samples to perform soil mechanics laboratory tests to facilitate development of design parameters.</p> <p>We transmitted the results of the exploration and analyses in a formal report signed and sealed by one of our professional engineers. These analyses and recommendations included:</p> <ul style="list-style-type: none"> • site preparation and drainage, • excavations and dewatering/pressure relief (including temporary retaining structures), • fill material and compaction for pipe bedding, • allowable soil bearing values, • local and global stability analyses, • allowable pile load capacities for box culvert construction, • settlement due to structural loads, and • general construction procedures. | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 09/2019 (A) | Unknown | \$6,150 |

| PROJECT NO. 10 | |
|--|--|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: |
| <p>City of New Orleans Milne Campus Storm Water Resilience Project Programming and Design Services New Orleans (Orleans Parish), Louisiana Eustis Engineering Project No. 23846</p> <p>Contact Information: Dana Brown & Associates, Inc. 1836 Valence Street New Orleans, Louisiana 70115 Dana Brown, FASLA, PLA, AICP, LEED AP @ 504-345-2639</p> | <p>The Milne Campus project would incorporate several features for the detention and infiltration of rainwater. Features would require earthwork to contour the site and create berms, retaining walls, and structural foundations (footings or piles). New structures may include pavilions and plaza areas. Existing site pavements may require demolition for the construction of these new structures, pavements, and water/drainage features.</p> <p>The field portion of this project would include field exploration and infiltration tests. Four soil borings were drilled for the project to evaluate foundation needs for structural features such as pavilions, retaining walls, etc. The soil borings extended to depths of 40 feet to penetrate the relic beach sands. Ten additional borings were made to depths of 10 feet to evaluate the new pervious/permeable site pavements.</p> <p>The design of the stormwater best management practices required infiltration testing throughout the site. Therefore, two surface infiltration tests were made in the proposed agricultural area using an infiltrometer. Eight subsurface tests were also made for the water features and pavements utilizing an Amoozometer to establish the infiltration rate at depths greater than 1 foot below finished grade.</p> <p>Samples obtained from the borings were subjected to soil mechanics laboratory tests. In the 40-ft deep borings, tests included primarily of natural water content, unit weight, and either unconfined compression shear or unconsolidated undrained triaxial compression shear, and Atterberg limits determinations. These laboratory tests were necessary to determine the shear strength, liquidity index, and relative compressibility of the subsoils encountered. Samples obtained from the shallow pavement borings were tested for their natural water content. Atterberg limits determinations were performed on selected samples obtained from these borings.</p> <p>Based on the results of the soil borings, infiltration tests, and soil mechanics laboratory tests, engineering analyses included:</p> <ul style="list-style-type: none"> • a discussion of the existing subsoil and ground water conditions, • OSHA Soil Classification, • evaluation of shrink/swell potential in current conditions, • evaluation of heave potential due to infiltration, • recommendations for placement and compaction of fill, • estimates of lateral earth pressures, • estimates of allowable soil bearing values, • estimates of allowable pile load capacities, • estimates of settlement, |

| PROJECT NO. 10 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| | <ul style="list-style-type: none"> pavement recommendations, and general construction recommendations. | |
| Completion Date (Actual or Estimated) | Estimated Cost: | |
| | Entire Project: | Work for Which Firm Was Responsible: |
| 03/2020 (A) | Unknown | \$14,255 |

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 L.L.C. opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. *Seventy-eight 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 Baton Rouge and Lafayette, Louisiana, Gulfport, Mississippi, and 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;
- special inspections; 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 850 geotechnical and construction materials testing projects for Jefferson Parish Government entities either as a prime or subconsultant. Project types include water and wastewater pump stations, lift stations, roads and bridges, utilities, drainage structures and canals, coastal features and flood protection. 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 drilling, laboratory, and engineering staffs unparalleled familiarity with the subsurface and foundation conditions in the Gulf Coast and the challenges that may arise for projects associated with this contract.

ENGINEERING SERVICES

Eustis Engineering has geotechnical engineering capabilities to fulfill the requirements of nearly any project. As evidenced by the included write-ups in this package, our experience with performing field exploration, testing, and geotechnical engineering design is varied and extensive.

Eustis Engineering's design teams have completed projects associated with all types of infrastructure and capital/public works projects including water, sewerage, drainage, streets, and parkways. These projects have included alternative drainage methods with green infrastructure aspects such as bioswales and permeable pavements. Eustis Engineering's design teams evaluate pavement subgrades and provide recommended pavement component thicknesses for rigid and flexible pavements, including permeable, pervious, and impervious systems. We also evaluate pavement materials and mix designs. Our evaluation of bearing capacity considers the excavation depth, base preparation, and utility diameter. We have developed pile capacity and bearing capacity analyses for projects throughout Jefferson Parish and 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® software.

We evaluate local and deep-seated global stability of canals, waterway slopes and embankments as well as excavation shoring and sheeting. We provide assessments of heave, seepage and erosion control measures. We evaluate floodwalls, including I-walls, L-walls, T-walls and gates.

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.

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 moments. Eustis Engineering is also utilizing a numerical model program, SIGMA/W, in association with the rigorous settlement program Settle3.

Engineering Staffing

Our engineering staff has 18 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, is very important to Eustis Engineering. Our engineers also regularly present at technical conferences. We encourage and fund our staff for these activities and programs.

| Employee | Education | Experience | |
|-------------------------------|--|-------------------------------|-------------|
| | | Years with Eustis Engineering | Total Years |
| Professional Engineers (P.E.) | | | |
| Benjamin M. Cody | M.S. / Civil Engineering | 23 | 27 |
| Brian A. Deschamp | B.A. / Business Administration | 13 | 13 |
| | M.S. / Civil Engineering – Geotechnical | | |
| P. Tennant Duckworth | M.S. / Civil Engineering | 4 | 4 |
| James J. Hance | M.S. / Civil Engineering | 21 | 25 |
| | M.B.A. / Business Administration | | |
| Chad L. Held | M.S. / Civil Engineering | 33 | 33 |
| Matthew K. Morales | B.S. / Civil Engineering | 16 | 16 |
| Tomas K. Morales | B.S. / Civil Engineering | 11 | 11 |
| Travis R. Richards | M.S. / Engineering | 18 | 25 |
| | M.S. / Engineering Management | | |
| | Coastal Engineering Certificate | | |
| Chad D. Roe | M.S. / Civil Engineering | 2 | 12 |
| Gwendolyn P. Sanders | M.S. / Engineering | 32 | 32 |
| Shaun R. Simon | M.S. / Civil Engineering | 24 | 24 |
| Alice E. Stark | M.S. / Civil and Environmental Engineering | 1 | 9 |
| Patrick A. Thurmond | M.S. / Engineering Management | 9 | 9 |
| | M.S. / Civil Engineering | | |
| | Coastal Engineering Certificate | | |
| Sean G. Walsh | M.S. / Civil Engineering | 12 | 17 |
| James M. Williams | M.S. / Civil Engineering | 6 | 6 |
| Engineering Interns (E.I.) | | | |
| Adam K. Abdulbagi | B.S. / Civil Engineering | 2 | 2 |
| Alvaro E. Carvajal | B.S. / Civil Engineering | 2 | 2 |
| Joseph P. DiGiovanni | B.S. / Civil Engineering | 2 | 2 |
| Steven B. Tidwell | B.S. / Geological Engineering | 1 | 14 |
| Engineering Graduates | | | |
| Alexander Soriano Doninelli | B.S. / Civil Engineering | 1 | 5 |
| Lesley L. Reitmeyer | B.S. / Civil Engineering | 16 | 16 |
| Xia (Bruce) Xialong | PhD / Geotechnical Engineering | 1 | 11 |
| | M.S. / Geotechnical Engineering | | |

| Geologists | | | |
|----------------------------|--------------------|-----|-----|
| Matthew J. Blasini, G.I.T. | B.S. / Geology | 6 | 7 |
| Nathan A. Quick, P.G. | M.S. / Geology | 3 | 8 |
| Amelia E. Russell | B.S. / Geosciences | <1 | <1 |
| Total Years of Experience | | 259 | 330 |

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 test (CPT) rigs and operates four other multi-purpose rigs capable of performing 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 performed in the same time frame as a standard geotechnical boring; therefore, CPTs are 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 PDA 8-G Pile Driving Analyzers® (PDAs). 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 responses 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 Standard Penetration Test (SPT) hammers on our drill rigs.

Other Non-Destructive Testing Capabilities

Our engineering staff at Eustis Engineering 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 if 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 data loggers in near real time
- Settlement plates
- Conventional slope inclinometers or MEM sensor array inclinometers and tiltmeters
- 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. We also have portable units that can be used inside structures planned for retrofit/renovations.

Field Exploration Personnel

We can provide up to eight 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 | Blair Armant | James Cordes | Tevin Crawford | Rene Davidson | Eric Held | James Lubben | George Reitmeyer | Lawrence Rome |
|---|--------------|--------------|----------------|---------------|-----------|--------------|------------------|---------------|
| 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 | | 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 | X | | X |
| Location Information (Latitude, Longitude) | X | X | X | X | X | X | | X |
| Set Permanent Benchmarks | X | X | X | X | X | X | | X |
| Install Instrumentation | X | X | X | X | X | X | | X |
| Cone Penetration Tests | | | | | X | | X | |
| Geoprobe Sampling | | 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

In addition to our drill rigs, Eustis Engineering owns and operates an Acker Vane Shear to perform down hole in-situ testing. We also 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 to assess the in-situ strength of undisturbed soils and compacted materials in accordance with ASTM D 6951.

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 the production of boring logs and data entry.

Eustis Engineering has also 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 provides Eustis Engineering’s team members access to a data source via connected applications or a web portal, increasing both collaboration and efficiency. 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; American Concrete Institute (ACI); State of Louisiana, Department of Transportation and Development (LaDOTD); AASHTO; FAA; and the U.S. Army Corps of Engineers (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 USACE, 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 |
| Concrete | Soil | Asphalt |
| Masonry | Concrete | Concrete |
| Soil | Spray Fire-Resistive Material | Soil |
| | | Spray Fire-Resistive Material |

To further show 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 our testing laboratories produce the highest quality results and conform to state and national standards.

CONSTRUCTION MATERIALS TESTING

Eustis Engineering has been involved in construction materials testing (CMT) and inspection on a regular basis since the mid-1980s. Over the past 30+ years, Eustis Engineering has accumulated a wealth of experienced technicians in these areas. Whether 20 feet down in an excavation or 20 stories up in a high rise, our CMT technicians are there providing the inspection services needed on individual projects.

Staffing

Eustis Engineering currently has nearly 30 technicians on staff to provide construction inspection services on a daily basis. These services encompass the areas of soils, piling, asphalt, concrete, steel, and others.

Services

Soils testing in the field is performed by means of density tests, fill placement inspection, and depth checks. These services are performed by technicians who have attended courses by Troxler or Humboldt in the use of nuclear density devices.


Piling services include the inspection of various types of piles, logging these piles, and performance of pile load tests with calibrated equipment. Load test results are, in turn, interpreted and reported by a registered engineer on our staff.

Our realm of concrete inspection includes the formulation and review of mix designs, quality control at the plant and in the field, materials testing and sampling, precast piling inspection, post tension inspection, floor flatness, and mortar and grout inspection. These services are performed by our ACI and NICET certified technicians.

Steel inspection may include the visual inspection of structural steel at the site or in the shop, steel and pipe coating sampling, post tension and welder certification witnessing, and the performance of ultrasonic and x-ray testing. These services are performed by members of our staff currently certified with AWS, ASNT, and/or ASME.

Other CMT services provided by Eustis Engineering personnel include fireproofing inspection, vibration and acoustical monitoring, paint inspection, and more.

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: 14 January 2025

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Sala Avenue Historic District Drainage Feasibility Analysis and Improvements
SOQ #25-005
Resolution No. 145576

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

Alphonse Barcia III Landscape Architect LLC
562 Clayton Court
Slidell, LA. 70461
985-960-0429

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:

Alphonse Barcia III
Alphonse Barcia III Landscape Architect LLC
562 Clayton Court
Slidell, LA. 70461
985-960-0429
barciadesigns@gmail.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.

Alphonse Barcia III
Alphonse Barcia III Landscape Architect LLC
562 Clayton Court
Slidell, LA. 70461
985-960-0429
barciadesigns@gmail.com

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

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

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. N/A | | |
| 2. | | |
| 3. | | |

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

1

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Alphonse Barcia, III, Landscape Architect-Owner

Project Assignment:

Landscape Architect

Name of Firm with which associated:

Alphonse Barcia III Landscape Architect LLC.

Years' experience with this Firm:

29 Years

Education: Degree(s)/Year Specialization:

LSU – Bachelor of Landscape Architecture 1996

Active registration: Year first registered/discipline:

2001 – Landscape Architect - Louisiana B-389

Other experience and qualifications relevant to the proposed Project:

AI's experience includes the following:

- Land Planning and Site Design
- Conceptual plan and Design Development
- Landscape and Irrigation Design
- Pool and Hardscape Design
- Lighting Design
- Project Management
- Budgeting and Cost Management
- Proficient in AutoCad, Land FX, Adobe, Sketchup
-

Relevant Experience:

St. Tammany Parish Sheriff's Office – Slidell, LA

Consultant for GCI & RCL

Landscape Design/Irrigation Design/Contract Administration

Jefferson Parish Sheriff's Office 1st District – Fat City, Metairie, LA

Consultant for NY

Landscape Design/Irrigation Design

TEC Professional Services Questionnaire

Alphonse Barcia, III, Landscape Architect-Owner
Project Assignment – Landscape Architect

Resume

Veterans Blvd. Beautification – Jefferson Parish, LA
Consultant for GCI
Site Planning/ Landscape Design/Irrigation Design

St. Charles Veterans Memorial – Luling, LA
Consultant for LHJ
Site Planning/Landscape Design

Causeway Blvd. Beautification – Jefferson Parish, LA
Consultant for LHJ/GCI
Landscape Design



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: | |
|---|----------------------------------|--------------------------------------|
| | | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | | |

PROJECT NO. 2

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

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

Alphonse Barcia III Landscape Architect L.L.C. (ABLA) was founded in 2001. ABLA provides high quality design services with a diverse range of projects including institutional and commercial landscapes, gaming, multifamily properties, and residential properties. Recently ABLA worked with LH&J on landscaping around tennis courts including green infrastructure.

ABLA will provide landscape architecture services for the LH&J Team.

A. MINIMUM REQUIREMENTS FOR SELECTION

A.1 The persons or firm submitting a Statement of Qualifications shall have at least one (1) principal who is a licensed, registered professional engineer in the State of Louisiana.

This MR will be fulfilled by the Prime consultant, Linfield, Hunter & Junius, Inc.

A.2 The persons or firms submitting 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.

This MR will be fulfilled by the Prime consultant, Linfield, Hunter & Junius, Inc.

TEC Professional Services Questionnaire

A.3 The persons or firms under consideration shall have one (1) employee who is a licensed, registered professional engineer in the State of Louisiana in the applicable discipline involved.

Alphonse Barcia III, is a Professional Landscape Architect registered in Louisiana with more than twenty-nine (29) years of experience in providing Landscape Architecture.

B. EVALUATION CRITERIA

B.1 Professional Training and Experience

Our Team is well qualified to provide the 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 to provide the services required for this project.

ABLA is licensed to practice landscape architecture, and is CLARB certified. As a design professional, the ABLA staff members are active in professional organizations and take advantage of continuing education opportunities. Company design professionals attend seminars on the latest Stormwater management.

We anticipate the following services will be required for this project, and we have the complete team to provide these services:

- | | |
|----------------------|--------------------------|
| ✓ Site Analysis | ✓ Stormwater Storage |
| ✓ Tree Protection | ✓ Landscape Architecture |
| ✓ Hydraulic Analysis | ✓ Irrigation Design |

Landscape Architecture

Site Analysis, Tree Protection, Planting and Irrigation Design will be performed by the team of ABLA.

Alphonse Barcia III Landscape Architect LLC. (ABLA) has been working on street improvement project though out the metropolitan New Orleans area. Creating walkable streets, protection of the existing trees. Selection of the preferred street trees and developing a connection with the streetscape with the overall Stormwater design.

A summary of ABLA training and experience in the areas of Landscape Architecture includes:

- ✓ As a small firm I pride myself on the fact that I will be the controlling part of all aspects of the design process.
 - ✓ Using the best BMP's and Stormwater storages practices
 - ✓ A working knowledge of state-of-the-art computerized methods and procedures for studies and design.
-
- AI Barcia PLA / Principal in Charge – 29 years of project experience

TEC Professional Services Questionnaire

Relevant projects in Jefferson Parish include:

- ✓ Canal Street Improvements
- ✓ 17th Street Canal Improvements
- ✓ Vintage Boulevard Walking Trail

B.2 Size of Firm

Alphonse Barcia III Landscape Architect LLC (ABLA) employs three (3) individuals, as shown in Item E above.

B.3 Capacity for Timely Completion of Newly Assigned Work

The designs of several large projects have been recently completed or are near completion. Therefore, we have a team available. The design of projects by this solicitation can be easily absorbed by the firm, as we have substantial reserve production capacity to meet any reasonable project scheduling.

B.4 Past Performance by Person or Firm on Parish Contracts

- Vintage Boulevard Walking Trail - COMPLETED
- Bike Path along Jefferson/Orleans Parish Line – IN DESIGN
- District 4 Covered Canals Study - COMPLETED
- Veterans Blvd. Drainage Canal Development Study - COMPLETED
- Canal Street Corridor Improvements - COMPLETED
- 17th Street Canal Improvements – Hoey's Canal to Airline Drive - COMPLETED

To the best of our knowledge, all public projects have been completed within the allotted design time and to the satisfaction of Jefferson Parish.

B.5 Location of Principal Office Where Work Will Be Performed

Alphonse Barcia III Landscape Architect LLC (ABLA) is located in Slidell, Louisiana and all work will be performed from this office.

B.6 Status of Current Litigation with Jefferson Parish

Alphonse Barcia III Landscape Architect LLC (ABLA) has no previous or on-going litigation with Jefferson Parish.

B.7 Prior Successful Completion of Projects of the Type and Nature of Engineering Services, as defined, for Which Firm Has Provided Verifiable References

ABLA has successfully completed many projects of the type and nature required by this solicitation. Some of these projects are described in Item L above. Additionally, examination of Resumes in Item K describe relevant personnel experience and firm experience. Verifiable references are listed in Item L.

Closing Statement

We are extremely interested in this solicitation.

Alphonse Barcia III Landscape Architect LLC (ABLA) has extensive experience in the design of landscape architectural projects in Jefferson Parish and throughout the New Orleans Metropolitan Area.

Alphonse Barcia III Landscape Architect LLC (ABLA) has the capacity to easily absorb this project assignment.

Please give us your serious consideration.



Signature: _____

Printed Name: _____

Alphonse Barcia III

Title: Landscape Architect/Owner

Date: February 7, 2025