



SOQ 24-026

Professional Electrical Engineering Services for Miscellaneous Street Lighting Projects and Other Electrical Related Work throughout Jefferson Parish

Submission Deadline: September 6, 2024 at 3:30 PM

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the public notice and Jefferson Parish Code of Ordinances Section 2-926 et seq. All submissions must be received on the Purchasing Department's e-Procurement site, www.jeffparishbids.net, by the SOQ submission deadline date and time. Late submissions will not be accepted.

**Jefferson Parish Purchasing Department
General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053
Purchasing Specialist II Mark BATTERY
Mark.Battery@jeffparish.gov
(504) 364.2810**

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-026, Electrical Engineering Services for Miscellaneous Street Lighting Projects and Other Electrical Related Work throughout Jefferson Parish

B. Firm Name & Address:

Gresham Smith
10000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

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:

Herbert "Bert" Moore, II, P.E., PLS, PTOE
Gulf Coast Regional Transportation Leader
bert.moore@greshamsmith.com
225.282.2101

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.

Christina Florez, P.E.
Senior Electrical Engineer
christina.florez@greshamsmith.com
225.757.5849

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

| | | |
|---|---------------------------------------|---------------------------------------|
| <u> 1 </u> Administrative | <u> </u> Estimators | <u> </u> Specification Writers |
| <u> </u> Architects (Licensed) | <u> </u> Geologists | <u> 1 </u> Structural Engineers |
| <u> </u> Chemical Engineers | <u> </u> Geotechnical Engineers | <u> </u> Graduate Engineers |
| <u> 5 </u> Civil Engineers | <u> </u> Interior Designers | <u> 1 </u> Project Managers |
| <u> 3 </u> Construction Inspectors | <u> </u> Landscape Architects | <u> 1 </u> Clerical |
| <u> </u> Ecologists | <u> </u> Land Surveyor | <u> 1 </u> Grant/Funding Specialist |
| <u> 2 </u> Electrical Engineers | <u> </u> Mechanical Engineers | <u> </u> Sanitary Engineers |
| <u> 4 </u> Engineer Intern | <u> </u> Environmental Engineers | |
| <u> </u> Professional Land Surveyors | | <u> 19 </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.

N/A

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:

N/A

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:

Herbert "Bert" Moore, II, P.E., PLS, PTOE
Gulf Coast Regional Transportation Leader

Project Assignment:

Principal-in-Charge of Project/Project Executive

Name of Firm with which associated:

Gresham Smith

Years' experience with this Firm:

9

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1999 / Civil Engineering, Minor in Land Surveying

Active registration: Year first registered/discipline:

P.E. 0031065/ LA / 2004 / Civil Engineer
PTOE 2728 / 2009
PLS 5043 / LA / 2010

Other experience and qualifications relevant to the proposed Project:

Bert is a professional engineer with over 25 years of experience designing and managing projects in the fields of traffic and transportation engineering. Prior to joining Gresham Smith, Bert spent six years as the District Traffic Operations Engineer (DTOE) for the Louisiana Department of Transportation and Development (LADOTD) where he was responsible for the daily maintenance and operation of signs, striping and traffic equipment for 2,000 miles of roadway and over 600 traffic signals in the Department's Baton Rouge region. Bert also has experience designing for non-vehicular traffic such as pedestrians and bicyclists, and making accommodations within ROW and at intersections. Bert has his Professional Traffic Operations Engineer (PTOE) certification and has completed both the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

See attached resume.

TEC Professional Services Questionnaire

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| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Christina Florez, P.E. Senior Electrical Engineer |
| Project Assignment: |
| Project Manager/Senior Electrical Engineer |
| Name of Firm with which associated: |
| Gresham Smith |
| Years' experience with this Firm: |
| 7 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2001 / Electrical Engineering |
| Active registration: Year first registered/discipline: |
| P.E. 0038799 / LA / 2014 / Electrical and Computer Engineer P.E. 65603 / FL / 2007 / Electrical and Computer |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Christina has been a senior project manager/engineer on street lighting and complex ITS projects over the past 22 years. She has been the lead engineer, supervising and mentoring staff, as well as the overall project management of a wide variety projects. Some of her project experiences include: intersection street lighting, corridor street lighting, design-build projects, providing support to DOT clients, integrated corridor management (ICM) planning studies, intelligent transportation systems design and construction support, field inspection and testing, variable-speed-limit (VSL) system, transportation systems management and operations, systems engineering analyses, incident management system (IMS), and reversible-lane plan development. Christina has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report training.</p> <p>See attached resume.</p> |

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| Kendra McCoy Project Manager / Senior Technician |
| Project Assignment: |
| Street Lighting Planning and Design Specialist |
| Name of Firm with which associated: |
| Gresham Smith |
| Years' experience with this Firm: |
| 11 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2012 / Project Management |
| Active registration: Year first registered/discipline: |
| |
| Other experience and qualifications relevant to the proposed Project: |
| <p>With more than 25 years of experience in project management, quality assurance/quality control and business administration environments, Kendra's expertise includes street lighting planning, analysis and design, traffic/ITS project coordination, system configurations and development of project documents. Additionally, Kendra is highly skilled in strategic planning, organization and system development and design. She also has coordination experience with projects relating to traffic management software implementations such as SunGuide, SunNav and Delcan. Kendra has also been involved in TMC operations and more specifically, traffic incident management, as a senior TMC ITS Systems Specialist.</p> <p>See attached resume.</p> |

TEC Professional Services Questionnaire

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| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Meredith Cebelak, Ph.D, P.E. Senior Transportation Engineer |
| Project Assignment: |
| Street Lighting Design Engineer |
| Name of Firm with which associated: |
| Gresham Smith |
| Years' experience with this Firm: |
| 8 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2001 / Civil Engineering Master of Science / 2013 / Civil Engineering Doctor of Philosophy / 2015 / Civil Engineering |
| Active registration: Year first registered/discipline: |
| P.E. 0041963 / LA / 2017 / Civil Engineering P.E. 65586 / FL / 2007 / Traffic |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Meredith is a TSM&O engineer who has led our efforts in the planning and design of many intersection street lighting and corridor street lighting projects in the past. She works with clients throughout the southeast, handling and managing their lighting needs. Additionally, Meredith has managed and designed a variety of transportation projects that implement Advanced Transportation Management Systems and Transportation Systems Management and Operations projects that improve safety and mobility by improving traffic operations and management. Her experience includes street lighting, traditional signal retiming and optimization, design and deployment of ITS devices for traffic management and incident detection, traveler information systems, and design of the communication infrastructure to support these systems.</p> <p>See attached resume.</p> |

TEC Professional Services Questionnaire

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| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Julian Bordelon, P.E. Electrical Engineer |
| Project Assignment: |
| Street Lighting Design Engineer |
| Name of Firm with which associated: |
| Gresham Smith |
| Years' experience with this Firm: |
| 5 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2018 / Electrical Engineering |
| Active registration: Year first registered/discipline: |
| P.E. 0047473 / LA / 2023 / Electrical Engineering |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Julian is a professional electrical engineer. His professional emphasis is in photometric analysis, street light planning, analysis and design, ITS design, and electrical design. Additionally, Julian's experience includes ITS design, Adaptive Traffic Control System design, electrical analysis, lighting design and analysis, and fiber optic mapping. His direct experience with network infrastructures, database management, and electrical analysis has proven useful as a technical resource.</p> <p>See attached resume.</p> |

TEC Professional Services Questionnaire

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| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Jordan Fondja Electrical Engineering Intern |
| Project Assignment: |
| Street Lighting Analysis and Design Specialist |
| Name of Firm with which associated: |
| Gresham Smith |
| Years' experience with this Firm: |
| 2 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2022 / Electrical Engineering |
| Active registration: Year first registered/discipline: |
| EI 1100027428 / FL |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Jordan joined Gresham Smith in 2022 after completing his bachelors in Electrical Engineering Technology at Kennesaw State University. His professional emphasis is in photometric analysis, street lighting, and electrical design. His educational emphasis involved control systems, communications networks, and electronics.</p> <p>See attached resume.</p> |

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: | |
|---|---|--------------------------------------|
| Lafayette Consolidated Government, Downtown Street Lighting - Lafayette, LA Warren Abadie, P.E. 1515 East University Avenue Lafayette, LA 70502 337.2911.8548 | Gresham Smith has been tasked with assisting the Lafayette Consolidated Government with the development of street and pedestrian lighting standards, performing photometric analysis for roadway, sidewalk, pedestrian, and park lighting systems and the lighting design plans for the entire Downtown Lafayette area. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Design 100% On Hold: 70%: | \$113,327 | \$113,327 |

PROJECT NO. 2

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
|---|--|--------------------------------------|
| Lafayette Consolidated Government, Johnston Street Lighting - Lafayette, L.A. Warren Abadie, P.E. 1515 East University Avenue Lafayette, LA 70502 337.291.8548 | Gresham Smith was selected by Lafayette Consolidated Government to develop design plans for street lighting for the 2.3 mile section of Johnston Street (US 167) through Lafayette Parish. LADOTD has a J-turn project that is currently removing the street lighting within the median of Johnson Street. Gresham Smith performed the photometric analysis for Johnston Street and developed preliminary and final design plans for street lighting, voltage drop calculations, and construction cost estimates. The contractor's bid of this project was \$2.4 million, which was within 10% of the estimate of probably construction costs that was developed as part of the design for this project. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Design: 100% Completed: 2/2022 (Actual) Post design services: 3/2024 (Actual) | \$200,000 | \$200,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility | |
| East Baton Rouge Parish, MovEBR - Bluebonnet Boulevard Sidewalks (Mall Drive 1 to Bluebonnet Centre Blvd.) - East Baton Rouge, LA Thomas A. Stephens, P.E. 225.389.3186 tstephens@brla.gov | Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard to Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian lighting and pedestrian signals to the existing traffic signals on Bluebonnet Boulevard for the intersections of Mall Drive 1/Constantine Boulevard, I-10 EB Ramps, I-10 WB Ramps and Bluebonnet Centre Boulevard in Baton Rouge, Louisiana. The goal of this project is to bring this existing intersection up to ADA requirements for pedestrians and provide connectivity for pedestrians through these intersections and provide connectivity to the BREC path along Ward's Creek and to the sidewalks along Bluebonnet on either end of the project limits. This includes providing pedestrian lighting for the entire length of the project and providing full design for the section under the I-10 bypass. | |
| Completion Date (Actual or estimated) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 90% Completed: 12/2024 (Estimated) | \$157,000 | \$157,000 |

| PROJECT NO. 4 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| East Baton Rouge Parish, MovEBR - Jefferson Hwy at Bluebonnet - City-Parish Project No. 20-CP-HC-0046, East Baton Rouge, LA Thomas A. Stephens, P.E. 225.389.3186 tstephens@brla.gov | Gresham Smith was selected as part of a team to perform the traffic design report and street lighting analysis and design for the portions of Jefferson highway and Bluebonnet Boulevard adjacent to the intersection of Jefferson highway and Bluebonnet Boulevard study in Baton Rouge, Louisiana. The goal of the traffic design report is to collect data at the study intersection, perform capacity analyses of existing and future traffic volumes and develop alternatives for improved capacity. The lighting analysis was performed to provide a design to relocate existing lighting to accommodate proposed roadway improvements at the intersection. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 100% completed: 9/2022 Project is currently under construction | \$33,800 | \$33,800 |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|--|--|--------------------------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| City of Baton Rouge and Parish of East Baton Rouge Department of Transportation, MovEBR- Plank Road Corridor Enhancement Segment 2 - Baton Rouge, LA Thomas A. Stephens, P.E. 225.389.3186 tstephens@brla.gov | The purpose of this project is to improve the safety and mobility of both the vehicular and non-vehicular traffic through the Plank Road corridor from Dawson Drive to Harding Blvd. This project is a small portion of a larger corridor improvement project along Plank Road. Plank Road (LA-67) is major arterial highway which provides a critical connection from the northern portion of East Baton Rouge Parish and the cities of Zachary, Central, and Baker to the Baton Rouge Airport, the main Capitol Area Transit System (CATS) terminal, the Greyhound Bus Station and downtown Baton Rouge. A design study was performed to identify the design year traffic volumes to determine the appropriate lane-configuration. Pedestrian and bicycle facilities will be designed along the corridor to fit within the existing Right-of-Way (ROW) and to connect to the adjacent pedestrian facilities and neighborhoods. Where possible, bus pullout will be provided to prevent buses stopping at bus stops from blocking travel lanes on Plank Road. The existing traffic signals will be upgraded to current standards with additional SMART corridor technologies, capable of remote communications, Automated Traffic Signal Performance Measures (ATSPMs), connected vehicle technology and transit priority for rapid transit operations. Crosswalks will be designed for all of the signalized intersections to ensure safe crossings for pedestrians. Gresham Smith was also responsible for the photometric analysis, lighting design, and electrical design to bring pedestrian walkways, crosswalks, and roadways up to the recommended lighting values set by the Illuminating Engineering Society Recommended Practice RP-8. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 100% Completed: 2/2022 (Actual) | \$156,000 | \$156,000 |

| PROJECT NO. 6 | | |
|--|--|--------------------------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| MovEBR - Sherwood Forest Blvd MUP - C-P Project No. 20-EN-HC-0027, Baton Rouge, LA Thomas A. Stephens, P.E. tstephens@brla.gov | Gresham Smith is the prime consultant responsible for designing a Multi-Use Path along the west side of South Sherwood Forest Boulevard from South Harrells Ferry Road to Old Hammond Highway. Gresham Smith was selected to provide the safety and timing for the traffic signals through this project, to review the feasibility of the improvements required to the traffic signals. Gresham Smith was also tasked with the design to upgrade these traffic signals to accommodate the MUP and the crosswalks required. This included the intersections of South Sherwood Forest at S. Harrells Ferry, I-12 EB Ramps, I-12 WB Ramps, N. Harrells Ferry and Old Hammond Highway. This project will improve the operation and safety for both vehicular and non-vehicular users by bringing these existing intersections up to current ADA requirements. The signal improvements will include the installation of handicap ramps, crosswalks, pedestrian signal head and audible pedestrian pushbuttons. Gresham Smith has also been tasked with the photometric analysis and design of pedestrian lighting along Sherwood Forest between these intersections. This included pedestrian lighting for the portion of the path under the I-12 overpass. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 100% Completed: 11/2023 (Actual) | \$150,000 | \$150,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| MDOT, 2020 RWD, WA #1, Meridian Lighting and ITS - Meridian, MS David Seal State Roadway Engineer 601.359.7001 david.seal@mdot.ms.gov | This project is a design-build project and includes the installation and operation of Intelligent Transportation System (ITS) applications and devices with connections to major roadways in the Lauderdale County area and Interstate lighting along I-59 from SR 11 to the Mississippi/Alabama State Line. Gresham Smith provided Light Pole inspection, Phase A Lighting and ITS Plans, Systems Engineering Analysis Report, Design/Build Document setup and the D/B Construction Administration support. Gresham Smith has performed the structural inspection of the existing street light poles and has developed plans to replace deficient poles and for installation of new poles in areas where lighting is not present. Gresham Smith performed the photometric lighting analysis and provided 3 lighting fixture options using the AiG32 software. Once the options were narrowed down, an analysis of the fixtures was completed for the entire corridor to determine foot-candle levels that can be attained and how closely they met the AASHTO lighting requirements. Plans were developed using aerials that provide the preliminary conduit, power service points, fixture and electrical details. Preliminary voltage drop calculations were developed to help ascertain the expected power service point needs. Additionally, the project connected traffic signals to the Traffic Management Center, added Closed-Circuit Television (CCTV) cameras, Dynamic Message Signs (DMS) and vehicle detection devices. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 100% Completed: 2/2021(Actual) | \$243,000 | \$243,000 |

| PROJECT NO. 8 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| MDOT, State Route 601 - Canal Road Lighting Design - Gulfport, MS Richard Pittman State Roadway Design Engineer 601.359.7001 rpittman@mdot.ms.gov | Gresham Smith provided Phase A design services to develop lighting and ITS design plans for the proposed interchange at SR 601 (Canal Road) and I-10 in Harrison County. The project limits are from the I-10 Interchange at County Farm Road (west limit) to the I-10 Interchange at US-49 (east limit) in Gulfport and from the proposed intersection of SR 601 (north limit) including the full extent of the proposed interchange ramps. The design services included developing field inspection plans, identifying potential power service locations, placement of device locations, site visit documentation, and making recommendations for existing equipment updates/upgrades. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 100% Completed: 12/2020 (Actual) | \$42,750 | \$42,750 |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| MovEBR, Synch & Comm Signal Rebuilds, Phases I and II - City of Baton Rouge and East Baton Rouge Parish, LA Cyndi Pennington, P.E. 225.389.3246 cpennington@brla.gov | Gresham Smith was selected to redesign the traffic signals for seven intersections In Phase I and four intersection in Phase II within Baton Rouge, Louisiana. These projects replace outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users. Additionally, this project brings these existing intersections up to current ADA requirements for pedestrians. The designs included luminaries to light the crosswalks at the intersections. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Phase I & II: 80% Completed: 5/2024 (Estimated) | Phase I and II: \$131,000 | Phase I and II: \$131,000 |

| PROJECT NO. 10 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| City of Gonzales, US 61 Superstreet Lighting, from North of Lowe's Avenue to South of LA 939 - Gonzales, LA Jackie Baumann 225.647.9589 jackie@gonzalesla.com | Gresham Smith shall provide design services for, but not limited to, the following: Plans, specifications and special provisions, construction estimate, illumination analysis, and engineering calculations for a complete lighting system. Gresham Smith will provide deliverables at 60%, 95%, and 100% Final Plan stages. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 5% Complete: 10/2024 (Estimated) | \$185,000 | \$185,000 |

TEC Professional Services Questionnaire

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

| Parties: | | Status/Result of Case: |
|------------|------------|------------------------|
| Plaintiff: | Defendant: | |
| 1. N/A | N/A | N/A |
| 2. N/A | N/A | N/A |
| 3. N/A | N/A | N/A |
| 4. N/A | N/A | N/A |

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

Our staff of experienced professionals includes hand-selected experts who offer national perspectives on innovative and sustainable strategies for many Transportation disciplines, including roadway lighting, utility design, utility relocation, power designs, roadway, traffic signal designs, and intelligent transportation systems (ITS).

At Gresham Smith, our team of professional engineers, planners, and integration experts understand the intricacies of publicly-funded transportation projects and deliver quality planning, design, operations and construct management services for federal, state, and local projects. Understanding the relationships between all of these phases and operational roles enables us to produce cost-effective solutions that meet our client's specific requirements. Our versatility, grounded in our proven combination of creativity, resources, and technical expertise, allows us to deliver a broad diversity of services and projects. We deliver an unparalleled diversity and depth of resources rivaling those of much larger national firms, but we retain the dedicated, personalized service and responsiveness of a smaller, local firm. Our core philosophy for the past 53 years remains the same: Focus on the success of our clients.

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

Signature: Herbert "Bert" Moore II **Print Name:** Herbert "Bert" Moore, II, P.E., PLS, PTOE

Title: Gulf Coast Regional Transportation Leader **Date:** September 6, 2024



Herbert "Bert" Moore II,

P.E., PLS, PTOE

Gulf Coast Regional Transportation Leader

Bert is a professional engineer with over 25 years of experience designing and managing projects in the fields of traffic and transportation engineering. Prior to joining Gresham Smith, Bert spent six years as the District Traffic Operations Engineer (DTOE) for the Louisiana Department of Transportation and Development (LADOTD) where he was responsible for the daily maintenance and operation of signs, striping and traffic equipment for 2,000 miles of roadway and over 600 traffic signals in the Department's Baton Rouge region. Bert also has experience designing for non-vehicular traffic such as pedestrians and bicyclists, and making accommodations within ROW and at intersections. Bert has his Professional Traffic Operations Engineer (PTOE) certification and has completed both the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report Training.

Years of Experience

25

Education

Bachelor of Science, Civil Engineering, Louisiana State University

Registrations

Professional Engineer: LA, MS, TX, AL, GA, KY, TN

Professional Land Surveyor: LA

Memberships/Affiliations

American Council of Engineering Companies

Gulf Region Intelligent Transportation Society

Institute of Transportation Engineers

Society of Professional Surveyors

Accreditations/Certifications

Professional Traffic Operations Engineer

Relevant Projects

Lafayette Consolidated Government - Johnston Street Relighting, Lafayette, LA | *Project Executive*

Gresham Smith was selected by Lafayette Consolidated Government to develop design plans for street lighting for the 2.3 mile section of Johnston Street (US 167) through Lafayette Parish. LADOTD has a J-turn project

that is currently removing the street lighting within the median of Johnston Street. Gresham Smith performed the photometric analysis for Johnston Street and developed preliminary and final design plans for street lighting, voltage drop calculations, and construction cost estimates. The contractor's bid of this project was \$2.4 million, which was within 10% of the estimate of probably construction costs that was developed as part of the design for this project.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | *Project Executive*

Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard to Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian lighting and pedestrian signals to the existing traffic signals on Bluebonnet Boulevard for the intersections of Mall Drive 1/Constantine Boulevard, I-10 EB Ramps, I-10 WB Ramps and Bluebonnet Centre Boulevard in Baton Rouge, Louisiana. The goal of this project is to bring this existing intersection up to ADA requirements for pedestrians and provide connectivity for pedestrians through these intersections and provide connectivity to the BREC path along Ward's Creek and to the sidewalks along Bluebonnet on either end of the project limits. This includes providing pedestrian lighting for the entire length of the project and providing full design for the section under the I-10 bypass.

MovEBR-Plank Road Corridor Enhancement, Baton Rouge, LA | *Project Executive*

The purpose of this project is to improve the safety and mobility of both the vehicular and non-vehicular traffic through the Plank Road corridor from Dawson Drive to Harding Blvd. Gresham Smith is providing design study and lighting analysis. The roadway configuration may be revised to accommodate existing and projected volumes, and the traffic signals along the corridor will be upgraded to current technologies that can accommodate connected vehicle technology and transit priority operations.



Christina Florez, P.E.

Senior Electrical Engineer

Christina has been a senior project manager/engineer on street lighting and complex ITS projects over the past 23 years. She has been the lead engineer, supervising and mentoring staff, as well as the overall project management of a wide variety projects. Some of her project experiences include: intersection street lighting, corridor street lighting, design-build projects, providing support to DOT clients, integrated corridor management (ICM) planning studies, intelligent transportation systems design and construction support, field inspection and testing, variable-speed-limit (VSL) system, transportation systems management and operations, systems engineering analyses, incident management system (IMS), and reversible-lane plan development. Christina has completed the ATSSA Traffic Control Training and all 3 modules of LADOTD's Traffic Engineering Process and Report training.

Years of Experience

23

Education

Bachelor of Science, Electrical Engineering, Florida International University

Registrations

Professional Engineer: LA, FL, AL, GA, KY, MS, OH, TN

Memberships/Affiliations

Gulf Region Intelligent Transportation Society
Transportation Research Board
Intelligent Transportation Society of Tennessee

Relevant Projects

Lafayette Consolidated Government - Johnston Street Relighting, Lafayette, LA | *Project Manager/Technical Advisor*

Christina is responsible for all project management tasks and provides technical guidance as needed. Gresham Smith was selected by Lafayette Consolidated Government to develop design plans for street lighting for the 2.3 mile section of Johnston Street (US 167) through Lafayette Parish. LADOTD has a J-turn project that is currently removing the street lighting within the median of Johnson Street. Gresham Smith performed

the photometric analysis for Johnston Street and developed preliminary and final design plans for street lighting, voltage drop calculations, and construction cost estimates. The contractor's bid of this project was \$2.4 million, which was within 10% of the estimate of probably construction costs that was developed as part of the design for this project.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | *Project Manager/Technical Advisor*

Christina is responsible for all project management tasks and provides technical guidance as needed. Gresham Smith was selected to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard to Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian lighting and pedestrian signals to the existing traffic signals on Bluebonnet Boulevard for the intersections of Mall Drive 1/Constantine Boulevard, I-10 EB Ramps, I-10 WB Ramps and Bluebonnet Centre Boulevard in Baton Rouge, Louisiana. The goal of this project is to bring this existing intersection up to ADA requirements for pedestrians and provide connectivity for pedestrians through these intersections and provide connectivity to the BREC path along Ward's Creek and to the sidewalks along Bluebonnet on either end of the project limits. This includes providing pedestrian lighting for the entire length of the project and providing full design for the section under the I-10 bypass.

MovEBR - Sherwood Forest Blvd Multi-Use Path, Baton Rouge, LA | *Project Manager*

Christina is responsible for all project management tasks and provides technical guidance as needed. Gresham Smith is performed a traffic study for pedestrian improvements along Sherwood Forest Boulevard in Baton Rouge, LA. The project included data collection, safety analysis, and existing and future analysis.



Kendra McCoy

Project Manager / Senior Technician

With more than 25 years of experience in project management, quality assurance/quality control and business administration environments, Kendra's expertise includes street lighting planning, analysis and design, traffic/ITS project coordination, system configurations and development of project documents. Additionally, Kendra is highly skilled in strategic planning, organization and system development and design. She also has coordination experience with projects relating to traffic management software implementations such as SunGuide, SunNav and Delcan. Kendra has also been involved in TMC operations and more specifically, traffic incident management, as a senior TMC ITS Systems Specialist.

Years of Experience

28

Education

Bachelor of Science, Project Management, DeVry University

Memberships/Affiliations

Gulf Region Intelligent Transportation Society

Relevant Projects

Lafayette Consolidated Government - Downtown Street Lighting, Lafayette, LA | *Senior TSM&O Specialist*

Kendra created a lighting guide for downtown and evaluated which areas would benefit from supplemental lighting. This included a ConOps workshop, creating maps from information received from the stakeholders and a field assessment. Gresham Smith was selected to develop lighting guide to support Lafayette City-Parish Consolidated Government in branding, placemaking and public realm enhancement efforts to promote/market in the Downtown Area and improve the existing street and pedestrian lighting along the economic corridors within Downtown Lafayette Area. The plan provides lighting solutions that are attractional, innovative and curated to the area. Additionally, the plan integrates best practices that use lighting to encourage walkability, create a better quality of life experience, spur economic development and to support increased tourism in the area.

MovEBR - Sherwood Forest Blvd Multi-Use Path, Baton Rouge, LA | *Senior TSM&O Specialist*

Kendra assisted in performing a traffic study for pedestrian improvements along Sherwood Forest Boulevard in Baton Rouge, LA. The project included data collection, safety analysis, signal design and existing and future lighting analysis where she coordinated those tasks.

MovEBR-Jefferson Hwy at Bluebonnet, Baton Rouge, LA | *ITS Systems Specialist*

Kendra assisted with the traffic design report which included collecting data at the study intersection, performing capacity analyses of existing and future traffic volumes and developing alternatives for improved capacity. She coordinated the lighting analysis that was performed to provide a design to relocate existing lighting to accommodate proposed roadway improvements at the intersection of Jefferson highway and Bluebonnet Boulevard in Baton Rouge, Louisiana.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | *ITS Systems Specialist*

Kendra assisted with performing a pedestrian operations study of the intersection of Bluebonnet Boulevard to Bluebonnet Centre/Blue Cross and to develop design plans to add pedestrian lighting and pedestrian signals to the existing traffic signals on Bluebonnet Boulevard for the intersections of Mall Drive 1/Constantine Boulevard, I-10 EB Ramps, I-10 WB Ramps and Bluebonnet Centre Boulevard in Baton Rouge, Louisiana. The goal of this project was to bring this existing intersection up to ADA requirements for pedestrians and provide connectivity for pedestrians through these intersections and provide connectivity to the BREC path along Ward's Creek and to the sidewalks along Bluebonnet on either end of the project limits. This included providing pedestrian lighting for the entire length of the project and providing full design for the section under the I-10 bypass.



Meredith Cebelak, Ph.D., P.E.

Senior Transportation Engineer

Meredith is a TSM&O engineer who has led our efforts in the planning and design of many intersection street lighting and corridor street lighting projects in the past. She works with clients throughout the southeast, handling and managing their lighting needs. Additionally, Meredith has managed and designed a variety of transportation projects that implement Advanced Transportation Management Systems and Transportation Systems Management and Operations projects that improve safety and mobility by improving traffic operations and management. Her experience includes street lighting, traditional signal retiming and optimization, design and deployment of ITS devices for traffic management and incident detection, traveler information systems, and design of the communication infrastructure to support these systems.

Years of Experience

23

Education

Bachelor of Science, Civil Engineering, University of Florida

Master of Science, Civil Engineering, University of Texas

Doctor of Philosophy, Civil Engineering, University of Texas

Registrations

Professional Engineer: LA, AL, AR, FL, GA, MS, TN, TX

Memberships/Affiliations

Gulf Region Intelligent Transportation Society

Intelligent Transportation Society of Tennessee

Relevant Projects

Lafayette Consolidated Government - Johnston Street Relighting, Lafayette, LA | *Project Engineer*

Meredith provided QA/QC for the lighting plans for the 2.3 miles of Johnston Street. Her review included the photometric analysis, voltage drop calculations, as well as the design plans. Gresham Smith was selected by Lafayette Consolidated Government to develop design plans for street lighting for the 2.3 mile section of Johnston Street (US 167) through Lafayette Parish. LADOTD has a J-turn project that is currently removing

the street lighting within the median of Johnson Street. The contractor's bid of this project was \$2.4 million, which was within 10% of the estimate of probably construction costs that was developed as part of the design for this project.

Lafayette Consolidated Government - Downtown Street Lighting, Lafayette, LA | *Project Manager*

Meredith oversaw and led the creation of a lighting guide for downtown and evaluated which areas would benefit from supplemental lighting. This included a ConOps workshop, creating maps from information received from the stakeholders and a field assessment. Gresham Smith was selected to develop lighting guide to support Lafayette City-Parish Consolidated Government in branding, placemaking and public realm enhancement efforts to promote/market in the Downtown Area and improve the existing street and pedestrian lighting along the economic corridors within Downtown Lafayette Area. The plan provides lighting solutions that are attractional, innovative and curated to the area. Additionally, the plan integrates best practices that use lighting to encourage walkability, create a better quality of life experience, spur economic development and to support increased tourism in the area.

MDOT 2020 RWD, WA #1, Meridian Lighting and ITS, Meridian, MS | *Project Engineer*

Meredith was responsible for the design of the initial roadway lighting design along I-59 within Meridian City limits and related Design-Build documentation for the I-59/I-20 Design-Build bridge widening project. The design included the analysis of lighting fixtures via AGI 32 software, the calculation of electrical wire sizes, and the development of the lighting plans to be used for the Design-Build letting. She has also provided guidance to MDOT as questions arose during the Design-Build bidding process and throughout the construction process after the project was awarded.



Julian Bordelon, P.E.

Electrical Engineer

Julian is a professional electrical engineer. His professional emphasis is in photometric analysis, street light planning, analysis and design, ITS design, and electrical design. Additionally, Julian's experience includes ITS design, Adaptive Traffic Control System design, electrical analysis, lighting design and analysis, and fiber optic mapping. His direct experience with network infrastructures, database management, and electrical analysis has proven useful as a technical resource.

Years of Experience

7

Education

Bachelor of Science, Electrical Engineering, Louisiana State University

Registrations

Professional Engineer: LA, MS, TN

Memberships/Affiliations

Gulf Region Intelligent Transportation Society
International Municipal Signal Association

Relevant Projects

Lafayette Consolidated Government - Downtown Street Lighting, Lafayette, LA | TSM&O Engineer

Julian created a lighting guide for downtown, evaluated which areas would benefit from supplemental lighting, performed photometric analysis, lighting design, and electrical design for 5 streets and 2 parks in downtown Lafayette, Louisiana. This project will bring the parks, streets, sidewalks, and crosswalks up to IES recommendations for lighting.

MovEBR-Jefferson Hwy at Bluebonnet, Baton Rouge, LA | TSM&O Specialist

Julian assisted in preliminary photometric analysis and street lighting design for the portions of Jefferson highway and Bluebonnet Boulevard adjacent to the intersection of Jefferson Highway and Bluebonnet Boulevard in Baton Rouge, Louisiana. Gresham Smith was selected as part of a team to perform the traffic design report and street lighting analysis and design for the portions of Jefferson highway and Bluebonnet Boulevard adjacent to the intersection of Jefferson highway and Bluebonnet Boulevard study in Baton

Rouge, Louisiana. The goal of the traffic design report is to collect data at the study intersection, perform capacity analyses of existing and future traffic volumes and develop alternatives for improved capacity. The lighting analysis will be performed to provide a design to relocate existing lighting to accommodate proposed roadway improvements at the intersection.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | TSM&O Engineer

Julian performed photometric analysis, lighting design, and electrical design for the existing system from Mall Drive 1 to Bluebonnet Centre Boulevard and proposed a pedestrian lighting and electrical system design between the I-10 EB and I-10 WB Ramps in Baton Rouge, Louisiana. Julian also performed all voltage drop, arc flash, conduit sizing, and short circuit calculations for the lighting system. This lighting project should bring the pedestrian accommodations up to IES recommendations.

MovEBR-Plank Road Corridor Enhancement, Baton Rouge, LA | TSM&O Engineer

Julian was responsible for the electrical design, voltage drop, conduit sizing, and over current protection calculations for the lighting system on Plank Rd between Dawson Drive and Hooper Road. The purpose of this project is to improve the safety and mobility of both the vehicular and non-vehicular traffic through the Plank Road corridor from Dawson Drive to Harding Blvd. Gresham Smith is providing design study and lighting analysis. The roadway configuration may be revised to accommodate existing and projected volumes, and the traffic signals along the corridor will be upgraded to current technologies that can accommodate connected vehicle technology and transit priority operations.

Lafayette Consolidated Government - Johnston Street Relighting, Lafayette, LA | Project Engineer

Julian performed the photometric analysis, voltage drop calculations, as well as the design plans for the lighting plans for the 2.3 miles of Johnston Street through Lafayette Parish. LADOTD has a J-turn project that is currently removing the street lighting within the median of Johnson Street. The contractor's bid of this project was \$2.4 million, which was within 10% of the estimate of probably construction costs that was developed as part of the design for this project.



Jordan Fondja

Electrical Engineer Intern

Jordan joined Gresham Smith in 2022 after completing his bachelors in Electrical Engineering Technology at Kennesaw State University. His professional emphasis is in photometric analysis, street lighting, and electrical design. His educational emphasis involved control systems, communications networks, and electronics.

Years of Experience

2

Education

Bachelor of Science, Electrical Engineering, Kennesaw State University

Accreditations/Certifications

Engineering Intern: FL

Relevant Projects

MovEBR - Sherwood Forest Blvd Multi-Use Path, Baton Rouge, LA | *Electrical Engineer Intern*

Jordan assisted in performing photometric analysis, lighting design, and electrical design for the existing system from Old Hammond Hwy to S. Harrells Ferry Rd and proposed a pedestrian lighting and electrical system design between the I-12 EB and I-12 WB Ramps in Baton Rouge, Louisiana. Jordan also assisted with voltage drop, arc flash, conduit sizing, and short circuit calculations for the lighting system.

MovEBR-Plank Road Corridor Enhancement, Baton Rouge, LA | *Electrical Engineer Intern*

Jordan assisted with photometric analysis and lighting design for the existing and proposed lighting system on Plank Road between Dawson Drive and Hooper Road. The purpose of this project is to improve the safety and mobility of both the vehicular and non-vehicular traffic through the Plank Road corridor. The roadway configuration may be revised to accommodate existing and projected volumes, and the traffic signals along the corridor will be upgraded to current technologies that can accommodate connected vehicle technology and transit priority operations.

MovEBR-Synch & Comm Signal Rebuilds, Phase I and II, Baton Rouge, LA | *Electrical Engineer Intern*

Jordan assisted with the development of traffic signal design and wiring diagrams for 9 intersections in East Baton Rouge Parish. Gresham Smith was selected to redesign the traffic signals for seven intersections within Baton Rouge, Louisiana. Phase I will replace outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users. Phase II will replace outdated equipment with the latest technologies and improve the operations for both vehicular and non-vehicular users.

MovEBR-Bluebonnet Boulevard Sidewalks, Baton Rouge, LA | *Electrical Engineer Intern*

Jordan assisted in performing photometric analysis, lighting design, and electrical design for the existing system from Mall Drive 1 to Bluebonnet Centre Boulevard and proposed a pedestrian lighting and electrical system design between the I-10 EB and I-10 WB Ramps in Baton Rouge, Louisiana. This lighting project should bring the pedestrian accommodations up to the IES recommendations.

Lafayette Consolidated Government - Downtown Street Lighting, Lafayette, LA | *Electrical Engineer Intern*

Jordan assisted in photometric analysis, lighting design, and electrical design for 5 streets and 2 parks in downtown Lafayette, Louisiana. This project will bring the parks, streets, sidewalks, and crosswalks up to IES recommendations for lighting.

MDOT 2020 RWD, WA #1, Meridian Lighting and ITS, Meridian, MS | *Electrical Engineer Intern*

Jordan assisted in communication design, power design, voltage drop calculations and conduit sizing calculations for the ITS system along I-20/I-59 in Meridian, Mississippi.