



Engineering Design Services for Electrical Improvements to the City's Water and Wastewater Treatment Plant

Submitted to

City of Cooper City

Jacobs Engineering Group Inc.

March 24, 2026 | RFQ2026-1



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Jacobs

Challenging today.
Reinventing tomorrow.

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Technical Proposal

Tab 1 Letter of Interest

Letter of Interest

Mar 24th, 2026

City of Cooper City
Attn: Purchasing Division
9090 SW 50th Place
Cooper City, FL 33328

RE: RFQ2026-1 – Engineering Design Services for Electrical Improvements to the City's Water and Wastewater Treatment Plant

Dear Selection Committee,

Jacobs Engineering Group Inc. (Jacobs) is pleased to submit our Statement of Qualifications for RFQ2026-1 for Engineering Design Services for Electrical Improvements to the City of Cooper City's Water and Wastewater Treatment Plant facilities. Cooper City's commitment to modernizing its electrical infrastructure, identified as a high-priority need in the 2024 Water & Wastewater Master Plan Update, is essential to ensuring system reliability, operational resilience, regulatory compliance, and public safety for the City's 7.0 MGD Water Treatment Plant and 3.1 MGD Wastewater Treatment Plant at the George A. Haughney Plant site.

Jacobs Engineering Group Inc. holds a current State of Florida Certificate of Authorization and employs licensed Florida Professional Engineers (included in Tab 3).

Company History & Qualifications to Serve Cooper City

Jacobs, founded in 1947, is a Fortune 500 publicly traded firm providing consulting, planning, engineering, construction, and program management services worldwide. For more than 78 years, our success has been guided by a people-first business philosophy focused on integrity, collaboration, innovation, and delivering solutions that create lasting value for our clients and communities. Jacobs draws on a global talent force of more than 43,000 employees located in over 300 offices worldwide.

Jacobs is the largest solution provider in Florida and a top-ranked global planning, design, and environmental firm (consistently ranked by Engineering News-Record since 2003). We have supported Florida municipalities for over 60 years and have provided professional services for Cooper City since 1986. This longstanding relationship gives us deep familiarity with the City's treatment processes, electrical distribution systems, SCADA architecture, operational constraints, and regulatory environment.

Our multidisciplinary team of 356 SCADA experts, 117 ICS engineers, 406 electrical engineers, and 32 SCADA/ICS programmers brings extensive experience delivering complex electrical, instrumentation, SCADA, and power distribution upgrades at operating water and wastewater facilities. From switchgear and MCC replacements to standby power and grounding improvements, Jacobs applies proven design strategies, advanced modeling tools, and phased implementation approaches that minimize downtime and support reliable, long-term electrical infrastructure for Cooper City.

Over the past four decades, Jacobs has provided Cooper City with electrical, I&C, master planning, process engineering, civil, geotechnical, structural engineering, environmental/permitting, hydraulic and stormwater modeling, hydrogeological analysis, cost estimating, financial assistance, grant writing support, construction management and administration.

We have performed a water system and treatment plant process study to evaluate the condition of the existing water processes and to determine if new treatment facilities could accommodate new growth and anticipated regulations from the Safe Drinking Water Act.

Since 2014, Jacobs has continuously provided annual SCADA support services to the City. At George A. Haughney WTP, we automated the control system through installation and programming of 12 PLC / RIO control cabinets and 5 HMIs using Allen Bradley Logix PLC and GE iFIX HMI system. Enhancements included surge suppression, grounding improvements, updated communication modules, UPS systems, fiber optic converters, server virtualization, redundant SCADA servers, and thin-client architecture. **This direct experience at the facility eliminates learning curve risk and allows immediate focus on delivering value.**

Jacobs' Global Principals

Bob Pragada

Chief Executive Officer

Venk Nathamuni

Chief Financial Officer

Joanne Caruso

Chief Legal & Administrative Officer

Shannon Miller

President, Strategy, Growth & Digital

Patrick Hill

President Global Operations

Firm's legal name and company type: Jacobs Engineering Group Inc.

Corporation, registered as a legal entity in Florida.

Headquarters address:
1999 Bryan St., Suite 3500,
Dallas, TX 75201

Local Jacobs address:
550 W. Cypress Creek Road,
Suite 400, Fort Lauderdale,
FL 33309

Phone: 954.351.9256

Website: www.jacobs.com

Points of Contact

Mauricio Lara, PE, PMP
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(954).309.1380
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Deputy PM/CSL
(786).709.1119
raul.alfaro@jacobs.com

Didier Menard, PE
Principal-in-Charge
(407).496.1938
didier.menard@jacobs.com

Strong Partnership Delivering Integrated Electrical Solutions

Jacobs has partnered with **Hillers Electrical Engineering, Inc. (HEE)** a respected South Florida firm specializing in municipal electrical systems. HEE brings proven capabilities in evaluation, design, bidding assistance, and construction-phase services for complex electrical infrastructure, including major power distribution and switchgear upgrades at the George A. Haughney Plant and membrane treatment facilities.

The Jacobs and HEE team previously designed the 23 kV breaker and switchgear modifications at the George A. Haughney Plant and led electrical power distribution for the 1996 Water Treatment Plant Expansion (Membrane) and the 2002 Phase 2 Membrane Plant Expansion.

Reliable Infrastructure Starts with the Right Team

— HEE's familiarity with aging utility infrastructure and operating treatment facilities, combining with Jacobs' technical leadership, national resources, and design delivery experience, creates a highly integrated team ready to support Cooper City's electrical improvement program from day one.

Jacobs-HEE team combines deep local knowledge and municipal experience, with national technical resources to

deliver seamless, efficient, and resilient electrical solutions. Our integrated approach minimizes operational impact, supports safe implementation in active facilities, and aligns with the City's long-term infrastructure goals.

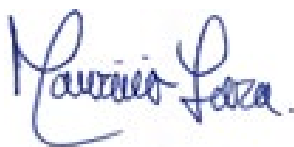
At Jacobs, purposeful partnership is grounded in transparent communication and technical excellence. We are committed to serving as a long-term partner to the City—delivering safe, reliable, maintainable, and future-ready electrical infrastructure through proactive coordination, innovative solutions, and reliable performance.

Our Fort Lauderdale office and established local resources enable rapid mobilization and continuous availability throughout the contract—simply put, **we're here when you need us. With over 60 years in Florida and nearly 40 years serving Cooper City**; we combine proven performance, deep system knowledge, and a strong local commitment. Backed by 1,690 Florida-based professionals, we are ready to continue serving the City of Cooper City and its residents with zero ramp-up time—ensuring efficient, on-time, and on-budget delivery. **Our familiarity with the City's infrastructure, local partners and aligned expertise, we're ready to implement projects immediately.**

We have carefully reviewed all RFQ documents and Addenda and are fully committed to meeting the City's schedule and deliver responsive, high-quality engineering services through evaluation, design, permitting, bidding, and post-design support.

We welcome the opportunity to support this critical infrastructure program and continue our longstanding partnership with the City of Cooper City.

Sincerely,



Mauricio Lara, PE, PMP
Project Manager
954.309.1380
mauricio.lara@jacobs.com



Raul Alfaro, PE, ENV SP
Deputy Project Manager/
Client Service Lead
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raul.alfaro@jacobs.com



Didier Menard, PE
Principal-In-Charge
407.496.1938
didier.menard@jacobs.com

Why Jacobs-HEE?

- ✓ **Local Experts, Global Strength:** Combined nearly 2,000 Florida-based staff backed by Jacobs' global resources.
- ✓ **Proven Municipal Partners:** A team with over 60 years of successful projects with multiple municipalities across Florida.
- ✓ **Engineering Excellence That Drives Results:** Combining technical precision with proven best practices to deliver reliable, high-performing solutions that consistently exceed expectations.
- ✓ **Smart, Scalable Solutions for Lasting Impact:** A team delivering adaptable, high-performance solutions that grow with your needs and ensure long-term reliability.
- ✓ **Ready-to-Deploy Team:** No ramp-up required—local, trusted staff with deep knowledge of the City and the overall market.
- ✓ **Jacobs-HEE Strong Team:** A team that has successfully completed more than 150 projects together for different clients and markets, reflecting a shared commitment to deliver high-quality, complex infrastructure projects across South Florida.

By strengthening this partnership, our team will help Cooper City modernize its water and wastewater facilities through advanced electrical improvements – delivering safe, reliable, and resilient systems that support the City's long-term infrastructure vision.

Technical Proposal

Tab 2 Letter of Qualifications

**CITY OF COOPER CITY – PROCUREMENT DIVISION
ARCHITECT-ENGINEER LETTER OF QUALIFICATIONS (LOQ)**

(I) - PROJECT INFORMATION

Solicitation No.: RFQ2026-1 No. of Addenda Received: 2
Project Name: Engineering Design Services for Electrical Improvements to the City's Water and Wastewater Treatment Plant

Prime # 1 (II) - PRIME CONSULTANT INFORMATION

Name: **Jacobs Engineering Group Inc.** FEIN: 95-4081636 E-mail: didier.menard@jacobs.com
Business Address: 550 West Cypress Creek Road, Principal: Francois Didier Menard, PE Phone: (407) 496-1938
Suite 400, Fort Lauderdale, FL 33309 Project Manager: Mauricio Lara, PE, PMP Fax: (N/A) -
Contact Person's Name and Title: Mauricio Lara, PE, PMP
Assigned Personnel: Please see Attachment A. following LOQ.

(III) - PROPOSED A/E SUB-CONSULTANT(S) INFORMATION

Sub #	Firm Name	FEIN	Assigned Personnel
2	Hillers Electrical Engineering, Inc. (HEE)	65-0469356	Thein Win, PE; Mark E. Luther, PE
3	Longitude Surveyors, LLC	36-4551726	Eduardo M. Suarez, PSM; John H. Adler III, PSM
4	Wirx Engineering, LLC (WIRX)	82-3346253	Andrew Nixon, PE; Clifford Hippolyte, PE, GC
5			
6			
7			
8			

(IV) – A/E DISCIPLINES

(Please use Prime # and Sub # to identify each firm from sections II and III)

A/E DISCIPLINES	Prime #	Sub #
Electrical Engineering	1	2
Civil Engineering	1	
Structural Engineering	1	
Cost Estimating	1	
Surveying	1	3
Geotechnical	1	4
Permitting and Regulatory Coordination	1	

(V) - PROPOSED NON-A/E SUB-CONSULTANT(S) INFORMATION

(Non-A/E firms shall not perform services described in a A/E Discipline Section)

a	Firm Name: Dickey Consulting Services, Inc. FEIN: 65-1115420 Phone: (954)467-6822 Address: 1033 Sistrunk Blvd., Suite 206, Fort Lauderdale, FL 33311 Assigned Personnel: Sheryl A. Dickey Assigned Services: Stakeholder Engagement and Communication Plans
b	Firm Name: FEIN: Phone: () - Address: Assigned Personnel: Assigned Services:

(VI) - ABILITY OF TEAM MEMBERS TO INTERFACE WITH THE CITY

Jacobs provides a highly responsive, locally based team with extensive experience working with the City of Cooper City and Broward County agencies. Our team is led by a strong Project Manager, Mauricio Lara, PE, supported by Deputy Project Manager, Raul Alfaro, PE—a trusted professional known to the City—along with a local team in key leadership roles. Key electrical leads from Hillers Electrical Engineering, Thien Win, PE and Mark Luther, PE, bring direct experience at the George A. Haughney Plant, including prior switchgear and electrical system improvements—eliminating the learning curve, reducing project risk, and enabling immediate, informed decision-making from day one. Our personnel are based in our Fort Lauderdale office, located within 21 miles of the City’s facilities, enabling rapid response, frequent in-person coordination, and continuous accessibility throughout the project.

With nearly 40 years of service to Cooper City, Jacobs brings a deep understanding of the City’s infrastructure, operations, and regulatory environment. This familiarity allows our team to integrate seamlessly with City staff, minimize onboarding time, and function as a trusted extension of the City’s team from day one.

Our communication approach is structured, transparent, and proactive. We will maintain regular coordination through progress meetings, milestone design reviews, and clear reporting on schedule, budget, and risks. Early issue identification and collaborative resolution are central to our process, ensuring alignment with City priorities and minimizing disruptions to ongoing operations.

Jacobs’ strong local presence and experience with regional permitting agencies and utilities support efficient coordination and timely project delivery. Backed by a deep bench of Florida-based professionals, we are fully committed to providing responsive, reliable service and maintaining strong communication with the City at all times.

(VII) - RESUMES FOR ASSIGNED PERSONNEL

Attach resumes for the assigned personnel identified on this LOQ.

THE EXECUTION OF THE LOQ CONSTITUTES THE UNEQUIVOCAL OFFER OF THE PROPOSER TO BE BOUND BY THE TERMS OF HIS OR HER PROPOSAL. FAILURE OF AN AUTHORIZED PRIME FIRM REPRESENTATIVE TO SIGN THIS LOQ WHERE INDICATED BELOW, MAY RENDER THE PROPOSAL NON-RESPONSIVE. HOWEVER, THE CITY MAY, AT ITS SOLE DISCRETION, ACCEPT ANY PROPOSAL THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE PROPOSER TO THE TERMS OF HIS OR HER OFFER.

(IX) - PRIME CONSULTANT ACKNOWLEDGEMENT

☒ I hereby certify that to the best of my knowledge and belief all the foregoing information is true and correct.

Authorized Prime Consultant’s Representative: Francois Didier Menard, PE Title: Principal-in-Charge
(Print Name)

Signature Authorized Representative:  Date: March 24, 2026

Attachment A: Assigned Personnel

Experienced Multi-Disciplinary Local Project Team

At Jacobs, we do not use the phrase “industry leader” lightly—our team possesses specific expertise in all the relevant processes and technical disciplines—we have a unique combination of similar project experience, familiarity with regional geography, and vast resources making it possible to successfully deliver any project under this contract, no matter the scope or complexity to meet quality, schedule, and cost standards. Resumes for our assigned personnel begin in the order below.

Assigned Personnel	Proposed Role	Company	Page
Mauricio Lara, PE, PMP	Project Manager	Jacobs	4-5
Raul Alfaro, PE, ENV SP	Deputy Project Manager/Client Service Lead	Jacobs	6-7
Didier Menard, PE	Principal-in-Charge	Jacobs	8-9
Nelliann Perez, PhD, PE	Design Manager	Jacobs	10-11
Marc Goslow, PE	QA/QC Electrical Design Process	Jacobs	12-13
Pilar Doran, PE	QA/QC Design Process	Jacobs	14-15
GJ Schers, PMP	QA/QC Design Process	Jacobs	16-17
Thein Win, PE, LEED AP	Electrical Design Lead	HEE	18
Mark Luther, PE	Electrical Design	HEE	19
Dave Nicholson, PE	Electrical Study/Energy Optimization	Jacobs	20-21
Steven Young, PE	I&C Programming Design (SCADA) Lead	Jacobs	22-23
Jorge Atoche, PE	Water & Wastewater Processes and Mechanical Lead	Jacobs	24-25
Tao Fu, PE	Mechanical Design	Jacobs	26-27
Zindy Agredo, AIA, ARA, LEED AP BD+C	Architectural and Structural Design Lead	Jacobs	28-29
Dave Everson, PE	Structural Design	Jacobs	30-31
Rich Morrison, PE	Site Civil Design Lead	Jacobs	32-33
Kathryn Benson, PE, CMRP	Condition Assessment Lead	Jacobs	34-35
Anderson Mai, EIT	Permitting	Jacobs	36
Eduardo M. Suarez, PSM	Surveying	Longitude Surveyors	37-38
John H. Adler III, PSM	Surveying	Longitude Surveyors	39-40
Andrew Nixon, PE	Geotechnical	WIRX	41-42
Clifford Hippolyte, PE, GC	Geotechnical	WIRX	43-44
Sheryl A. Dickey	Stakeholder & Community Engagement	Dickey Consulting Services	45-46

Key Personnel Resume

Mauricio Lara, PE, PMP | Project Manager



YEARS OF EXPERIENCE

23 Years

EDUCATION AND TRAINING

- » MBA, General Management, Nova Southeastern University
- » BS, Civil Engineering, EAFIT University
- » Executive Project Management Certificate, Florida Atlantic University

REGISTRATIONS |

CERTIFICATIONS

- » Professional Engineer: FL (#69929)
- » PMP: Global, #691289

OFFICE LOCATION

Fort Lauderdale, FL

Why Mauricio? Mauricio is an experienced project manager and engineer specializing in complex water, wastewater, and civil infrastructure projects. His portfolio includes treatment facilities, pump stations, reclaimed water systems, major utility networks, and large restoration efforts, as well as projects comparable to Cooper City's Water and Wastewater Plant Electrical Improvements. He has extensive experience with power distribution, MCCs, standby power, SCADA, instrumentation, and advanced automation. Mauricio also brings strong asset management and condition assessment expertise, helping utilities evaluate system performance, prioritize capital needs, and improve long-term reliability. Along with technical and construction oversight, he supports digital transformation initiatives that enhance processes, data management, and operations. His progression from project engineer to program manager demonstrates his ability to lead multidisciplinary teams and advance long-term planning focused on reliability, performance, and resilience.

KEY RELEVANT EXPERIENCE

Water and Wastewater Asset Management Consulting Services, City of Hollywood Utilities Department, City of Hollywood, FL.

Project Manager. Responsible for leading contract execution and multidisciplinary teams for the City of Hollywood Utilities Department's Water and Wastewater Asset Management Consulting Services. Oversaw comprehensive asset management efforts across treatment facilities, coordinating closely with municipal stakeholders to align with regulatory requirements, project goals, and budget constraints. Key tasks included developing asset registries, conducting criticality evaluations, performing risk ranking, and completing condition assessments for more than 2,700 assets. These assessments covered major electrical systems—transformers, switchgear, MCCs, VFDs, generators, panels, relays, SCADA, instrumentation, and automated controls—as well as mechanical systems such as pumps, blowers, valves, chemical feed equipment, aeration systems, and process piping. Using ISO 55001 principles and Jacobs' SOAP risk methodology, the work supported optimized maintenance strategies, improved reliability programs, and strengthened long-term resilience. Deliverables included remaining useful life analyses, prioritized rehabilitation plans, cost projections, and multi-year capital improvement schedules. Through consistent field engagement and proactive issue resolution, the project maintained momentum, met quality standards, and delivered successful outcomes across contracts totaling more than \$835K.

Reuse Plant Expansion Construction Administration Services, Broward County, Broward County, FL.

Project Manager. Responsible for managing the Broward County Reuse Plant Expansion at the NRWTP, overseeing contract administration and coordination with designers, field staff, and subconsultants to ensure compliance with technical, regulatory, and budget requirements. This \$54M project increased reclaimed water production from 10 mgd to 26 mgd and included upgrades to the filter feed transfer station, expanded concrete structures and chlorine contact tanks, new containment areas, and extensive yard piping verified through SUE and GPR. Key electrical improvements included medium-voltage distribution upgrades, MCCs with VFDs, standby power systems, and enhanced SCADA and instrumentation. Mechanical upgrades included reclaimed water pumps, filtration equipment, chemical feed systems, aeration/mixing systems, and major process piping to support higher hydraulic capacity. Consistent communication, progress meetings, and site engagement ensured quality, maintained momentum, and advanced a critical reclaimed water expansion for the County.

Sawgrass WTP Train A Secondary Treatment Design, City of Sunrise Utilities Department, City of Sunrise, FL.

Project Manager. Responsible for managing the design lifecycle of the City of Sunrise's Sawgrass WTP Train A Secondary Treatment Design project, serving as the main coordination point among technical teams, City staff, subconsultants, permitting agencies, and plant operators to keep deliverables on schedule and within budget. The 20-mgd facility required major rehabilitation of aging electrical and mechanical systems, including demolition of existing equipment and installation of new electrical infrastructure, conduit, lighting, and modernized SCADA and controls. The project also included designing a new Blower Building to maintain operations during phased demolition, along with replacement of

aging air piping, diffusers, valves, pumps, and installation of new aeration and sludge-holding blowers. Structural and process upgrades to Aeration Basins 1–4 eliminated obsolete surge tanks and removed end-of-life dosing equipment. With an estimated construction cost of \$35M, the effort relied on consistent communication, design-review meetings, and proactive risk management to maintain progress and ensure regulatory and technical compliance.

Sawgrass WWTP High-Level Disinfection (HLD) Reuse Facility Construction Administration Services, City of Sunrise, FL.

Project Manager. Responsible for managing construction administration for the City of Sunrise's Sawgrass WWTP HLD Reuse Facility, coordinating with City departments, operators, designers, contractors, and permitting agencies to keep the \$15M project on schedule and within budget. The work supported construction of a new 4 mgd tertiary HLD reuse facility as part of the City's reclaimed water program. Key duties included leading progress meetings, maintaining stakeholder communication, managing schedules and resources, and implementing risk-mitigation strategies. Major electrical work included a new electrical building, MCCs, gear, and controls for the new treatment processes. Mechanical and civil components included a transfer station, treatment structures, chemical storage facilities, a 5-MG prestressed concrete tank, and a high-service pumping station. Careful coordination was required to navigate underground utility conflicts and protect existing systems, minimizing plant downtime throughout construction.

SFWMD Compartment B Stormwater Treatment Area and Pump Stations Construction, South Florida Water Management District, Palm Beach County, FL.

Lead Engineer. Supported the South Florida Water Management District's \$92M, 9,585-acre Compartment B STA and pump station construction project. Responsibilities included assisting the Engineer of Record, Resident Engineering staff, and technical specialists across the South and North buildouts, which included pump stations G-435 (480 cfs), G-436 (1,600 cfs), G-434 (1,120 cfs), and the G-445 seepage station -representing more than 3,200 cfs of combined pumping capacity. Work also covered multiple hydraulic structures, canals, levees, and large treatment areas. A major focus involved electrical systems, including power distribution, MCCs, standby generators, pump motor wiring, gate actuators, conduit routing, grounding/lightning protection, control panels, and full I&C integration. Additional duties included reviewing electrical and I&C submittals, preparing RFIs, performing field observations, and supporting QC/QA for switchgear installation, control wiring, motor terminations, instrumentation loops, and electrical interfaces. Oversight also included pump testing and verification of electrical-mechanical integration to ensure reliable system performance.

Structure Inspection Program (SIP) and Project Development, South Florida Water Management District, West Palm Beach, FL.

Program Manager and Lead Engineer. Government employee role responsible for managing the \$2M annual Structure Inspection Program (SIP) and leading development of major capital projects. As SIP Manager, oversaw inspections and maintenance planning for 570 water control structures, 62 pump stations, and nearly 2,000 miles of canals and levees, including assessment of key electrical and mechanical systems such as MCCs, switchgear, generators, pumps, gates, and actuators. Implemented improvements that reduced program costs and strengthened asset reliability through more focused, needs-based inspection strategies. In addition, served as Lead Engineer for project development, defining scope, establishing engineering criteria, and guiding the lifecycle of multimillion-dollar projects involving canals, pump stations, bridges, and water control facilities. Contributed to a \$50M five-year Capital Improvement Plan and supported initiation of over \$80M in capital projects through detailed technical, operational, and financial analysis.

Environmental Services Department Utilities, City of Delray Beach, FL.

Assistant Director. Government employee role directing and coordinating daily activities across multiple Environmental Services divisions, including Public Utilities, Engineering & Project Management, Construction, Water and Sewer Network Operations, Utility Maintenance, and related service areas. His work supported operational planning, interdepartmental coordination, and resolution of day-to-day technical and operational issues. Contributed to both short-term and long-term planning efforts associated with the City's \$26M Capital Improvement Plan (CIP), helping prioritize projects, evaluate resource needs, and align infrastructure investments with organizational goals and community requirements.

Water Works 2011 - Water and Wastewater Capital Improvements Program, City of Ft. Lauderdale Utilities Department, City of Ft. Lauderdale, FL.

Project Engineer. Participated in design and construction management activities of this \$750M program including rehabilitation and construction phase services for pump stations, large water mains, wastewater force mains and gravity sewer projects. Analyzed and reported results of infiltration and inflow (I&I) monitoring used in generating contracts and SOW for approximately 7.5 miles of sanitary sewer. Assisted in managing project controls, budget, cost / system analysis and process improvement by administering the Program Control System (PCS). Led State Revolving Fund (SRF) program to construct wastewater and stormwater treatment projects.

Raul Alfaro, PE, ENV SP | Deputy Project Manager/Client Service Lead



YEARS OF EXPERIENCE

10 Years

EDUCATION AND TRAINING

» BS, Environmental Engineering,
Florida International University

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#92557)
» ENV SP
» AWWA J100 Utility Risk and
Resilience Certificate
» FEMA ICS: 100, 200, and 700

OFFICE LOCATION

Fort Lauderdale, FL

Why Raul? Raul is a senior water treatment process engineer and project manager. He has experience supporting municipal water utilities and private commercial clients across Florida and the Caribbean during all stages of the design process, including master planning, plant commissioning, performance testing, facility evaluation, process optimization, expansion evaluation, pilot testing, and capital improvement planning. Over the last 10 years, Raul has served as Engineer of Record and Project Manager for many water and wastewater infrastructure improvement projects including electrical design projects.

KEY RELEVANT EXPERIENCE

Motor Control Center (MCC) Replacement and Electrical Improvements, City of Fort Lauderdale, Fort Lauderdale, FL.

Project Manager. Managed design and engineering support services during construction for the MCC Replacement project at the City's George T. Lohemeyer WWTP. The project consisted of the replacement of MCCs 3, 4, 4A, 5, and 6; replacement of all associated power, signal, and control wiring and raceways to and from external device/connection and to the associated process controller. The work also included an updated Power System Study incorporating all switchgear, unitized substations, switchboards, MCCs and panelboards installed, modified or repowered in this project.

Electrical Design of Prospect Lake Clean Water Center Optimal Corrosion Control Treatment (OCCT) Study and Owner's Representative for Replacement of Fiveash WTP, Fort Lauderdale, FL.

Project Manager/Lead Technologist. Managed fast-paced electrical design to bring FPL 480/277 VAC service delivery to the Prospect Lake Clean Water Center to power Optimal Corrosion Control Treatment (OCCT) Study. The work involved extension of direct-buried conduit to new FPL service disconnect, installation of new 250A feeder circuit, installation of new 30kVA stepdown transformer and a 240/120VAC, 150A distribution double-tub panelboard. Managed a multi-disciplinary team to provide general engineering services including an OCCT study to identify corrosion control indices when transitioning to new finished water quality and support regulatory compliance. Evaluated the selected treatment technologies for a new 50 mgd NF facility with anion exchange split stream, including leading subject matter experts in evaluation of electrical design considerations for the new facility.

Electrical Design of High Service Pump Station MCC Replacement, City of Deerfield Beach, FL.

Deputy Project Manager/Process Engineer. Responsible for managing the development of 30% electrical design drawings, specifications, and design criteria package for the replacement of an existing MCC and high service pump motor starter with a new MCC line up and high service pump reduced voltage motor starter. The project required careful consideration for sequence of construction to maintain existing level of service for a WTP with a rated capacity of 21 mgd.

Repair and Replacement Services and Program Management Services, North Miami Beach Water, FL.

Deputy Program Manager/Project Manager. Development of risk-based prioritization of repair and replacement projects, including project evaluation criteria to more readily allocate annual Repair and Replacement Funds to higher priority projects under a Repair and Replacement Services and Program Management Services contract. Also responsible for project management, contractor management, scope development and Basis of Design of several repair and replacement projects including a 30,000-gallon sulfuric acid bulk storage tank replacement. Responsible for preparing Request for Proposals (RFP) packages for design, permitting, and construction of several repair and replacement projects valued at approximately \$5M.

Norwood WTP Phase 1 and Phase 2 Improvements and Expansions, City of North Miami Beach, FL.

Task Lead/Process Engineer. Responsible for supporting the engineering and design of water treatment facility to expand the production capacity of the RO and NF systems. Performed process evaluation calculation and membrane projections, modifications to Ground Water Rule evaluations and South Florida Water Management District Water Use Permit and contact time (CT) calculations for the membrane expansions. Conducted inspections and witnessing of functional and

performance testing of improvements for the BWRO and NF systems including development of custom loading of membrane elements at Norwood WTP, with an expanded capacity of 41 mgd.

Public Works Asset Management Program, City of Fort Lauderdale, Fort Lauderdale, FL.

Program Manager/Project Manager. Raul managed a multi-disciplinary team to meet the City's asset management vision through seven (7) task orders, which included full asset registry and asset hierarchy development for George T. Lohmeyer WWTP, as well as other stormwater assets managed by Public Works. The work also included implementation of Cityworks CMMS at GTL WWTP to more effectively manage assets through work order automation, lifecycle tracking, and performance monitoring—enhancing operational efficiency and decision-making.

Comprehensive Utilities Master Plan and Condition Assessment, City of Pembroke Pines, Pembroke Pines, FL.

Task Lead/Process Engineer. Managed a multi-discipline team on fast-tracked condition assessment project for the City of Pembroke Pines. The comprehensive assessment established a baseline of assets, unit processes, and components of water supply and wastewater including, treatment, conveyance, and distribution system from which rehabilitation and replacement projects were prioritized and included in the city's CIP.

Joe Mullins RO WTP, City of Melbourne, Melbourne, FL.

Task Lead/Process Engineer. The project was for an expansion of RO WTP to 12 mgd and included important sequencing to maintain level of service during construction. The work also required post treatment changes to maintain corrosion control treatment. Raul led the optimum corrosion control treatment study for the City of Melbourne's RO WTP 10-mgd expansion to evaluate finished water chemistry changes after the expansion which impacted corrosion control treatment and corrosion control parameters and informed design decisions for post treatment stabilization.

Pilot Testing and Improvements to Pre-Treatment and NF Membrane Skids, City of Boynton Beach, FL.

Task Lead/Process Engineer. Responsible for startup and operating nanofiltration softening membrane and enhanced pre-treatment pilot, which included granular media filter and sand strainer. Captured daily process and water quality data to evaluate membrane element performance, solids removal with pre-treatment, and scale inhibitor for performance-driven process optimization and changes. The project also includes evaluation and recommendations for the replacement of the current systems' membrane elements and recommendations for upgrades to the existing system and optimize operations.

PFAS Evaluation of East and West Wellfield, City of Boynton Beach, Boynton Beach, FL.

Project Manager/Process Engineer. Led and was responsible for the development of a sampling and analysis plan and directed the sampling of 30 surficial Biscayne aquifer wells for 29 PFAS compounds. The work also involved evaluating alternatives to meet compliance with proposed EPA MCLs for PFOS and PFOA at two WTPs, including the development of a blending model to optimize blending permeate stream with pretreated raw water at the West WTP.

Class I Injection Well FDEP Permit Renewal, City of Boynton Beach, Boynton Beach, FL.

Project Manager/Engineer of Record. Raul was responsible for managing the renewal of a Florida Department of Environmental Protection (FDEP) permit for the Class I Injection Well in the City's West WTP under an accelerated schedule. He communicated and coordinated with FDEP and successfully managed the multi-office project delivery team within budget and schedule.

PFAS Evaluation of Mims WTP, South Brevard WTP, and San Sebastian WTP, Brevard County Utilities, FL.

Project Manager. Raul served as lead technologist for PFAS evaluation of Brevard County's source and finished water and was responsible for the development of a sampling and analysis plan. The work also involved evaluating alternatives to meet compliance with proposed EPA MCLs for PFOS and PFOA at three (3) WTPs, including the development of a blending model to optimize blending permeate stream with anion exchange treated water.

Peele-Dixie WTP Chemical Tanks and Degasifier Improvements, City of Fort Lauderdale, Fort Lauderdale, FL.

Process Engineer/Project Manager. Raul was responsible for supporting the engineering, design, and permitting of improvements at the WTP, which included the replacement of failing sodium hypochlorite bulk storage tanks, upsizing of day tank, and installation of a new clean-in-place system. The project also included an extension of the in-plant gravity sewer system to convey spent cleaning solution and rinse water from the degasifier clean in-place system.

Chlorine Disinfection Improvements Project, City of Deerfield Beach, Deerfield Beach, FL.

Project Manager/Process Engineer. As part of an Architectural and Engineering Services Continuing Contract, Raul served as Project Manager and Process Engineer for the Chlorine Disinfection Improvements project. He managed engineering services during construction, including monitoring and reporting on progress, financial performance of the project, team and contractor management, and submittal reviews.

Didier Menard, PE | Principal-in-Charge



YEARS OF EXPERIENCE

27 Years

EDUCATION AND TRAINING

» BS, Civil Engineering,
University of Central Florida

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#66685)

OFFICE LOCATION

Orlando, FL

Why Didier? Didier has 27 years of industry experience and directs local government affairs for the South Region, bringing extensive local expertise in public involvement efforts and program leadership. As Principal-in-Charge, he is responsible for making sure the project manager has the necessary resources to deliver high-quality tasks on time and on budget. Additionally, he partners with the state and local governments to promote utilization of federal infrastructure funding streams throughout the South Region on matters of infrastructure investment. Didier also maintains professional relationships with members of federal, state, and local government entities and agencies.

KEY RELEVANT EXPERIENCE

Motor Control Centers (MCC) Replacement Project at GTL WWTP, Fort Lauderdale, FL.

Principal-in-Charge. This project involved comprehensive services such as project management, master planning, permitting, design (including process, civil, structural, electrical, and SCADA/I&C), hydraulic modeling, and construction administration. Didier was responsible for making sure the project manager has the necessary resources to deliver high-quality tasks on time and on budget.

North Miami Beach Water Capital Improvement Plan (CIP) and Contract Operations, North Miami Beach Water, North Miami Beach, FL.

Community Outreach Lead. As the Community Outreach Lead for North Miami Beach Water's \$350M CIP and contract operations program, Didier worked with City leadership to identify opportunities to give back to the community. He was involved in numerous outreach programs for the local community, including the "Drop Savers Program" and "School Backpack" events.

SWTP SCADA Master Plan and Retrofit Designs, Melbourne, FL.

Principal-in-Charge. Didier was responsible for making sure the project manager has the necessary resources to deliver high-quality tasks on time and on budget.

Joe Mullings RO WTP Project, City of Melbourne, FL.

Principal-in-Charge. The project was for an expansion of RO WTP to 12 mgd and included important sequencing to maintain level of service during construction. The work also required post treatment changes to maintain corrosion control treatment. Jacobs led the optimum corrosion control treatment study for the City of Melbourne's RO WTP 10-mgd expansion to evaluate finished water chemistry changes after the expansion which impacted corrosion control treatment and corrosion control parameters and informed design decisions for post treatment stabilization. Didier was responsible for making sure the project manager has the necessary resources to deliver high-quality tasks on time and on budget.

RO WTP SCADA Control System Automation Services, Cooper City, FL.

Principal-in-Charge. Didier was responsible for making sure the project manager has the necessary resources to deliver high-quality tasks on time and on budget.

SCADA Master Plan and Program Implementation, Cocoa, FL.

Principal-in-Charge. Didier was responsible for making sure the project manager has the necessary resources to deliver high-quality tasks on time and on budget.

Capital Improvement Plan (CIP), City of Cocoa, Cocoa, FL.

Principal-in-Charge/Public Involvement Task Lead. Didier provided sustained, open communication with the local municipality executive leaders including the Mayor, City Council, and Utilities Director, and other stakeholders to confirm their needs are addressed and issues resolved early. He worked to identify funding opportunities and ensured staffing resources were available as needed. As public involvement task lead, Didier helped in developing and implementing public involvement and communication strategies, and leading public information and stakeholder meetings.

Environmental Services Program CIP, Seminole County, Seminole, FL.

Principal-in-Charge/Public Involvement. As Principal-in-Charge, Didier provided sustained, open communication with the County Manager and County Attorney as well as County Commissioners. Didier coordinates with the Environmental

Services Director, other department leaders and stakeholders to confirm their needs are addressed and issues resolved early. Public Involvement Task Lead for the County's Environmental Services Department \$332M CIP, which involves developing and implementing public involvement and communication strategies, coordinating and leading public information meetings, holding stakeholder meetings, elected official briefings, media relations, and assisting with alternatives selection through building stakeholder consensus.

Ocean Outfall Legislation (OOL) CIP, Miami-Dade County, Miami-Dade, FL.

Small Business Outreach/Workforce Development Lead. Didier provides small and minority business program development leadership for this 10-year, \$5.7 billion capital improvement program. He leads all aspects of small business development, including fostering relationships with local firms, expanding their capacity, and assisting them in increasing their local work force. Key focus areas for implementation involve developing a mentor-protégé program, participating in small business events and training, providing the local workforce with opportunities, and leveraging program opportunities for local small businesses. Didier is responsible for collaborating with the Miami-Dade Chamber of Commerce, workforce training, and placement organizations, including CareerSource, and small and minority local businesses located in South Florida. Additionally, Didier has assisted WASD Small Business Enterprise with workshops such as "How to do Business with Miami-Dade," "Prompt payment," "Planning/Scheduling," and "Construction Management." These workshops prepare small businesses in Miami-Dade for additional work opportunities.

Residential Reclaimed Water Retrofit, Seminole County, Seminole, FL.

Public Involvement Task Lead. Didier led public involvement for the County's residential reclaimed water retrofit, which involved building, managing, and implementing a comprehensive Public Involvement Plan as part of a \$332M CIP. The residential retrofit program involved workshop planning, coordination, and stakeholder meetings to inform the residents about the projects, as well as to build consensus on the potential design alternatives. Residents were encouraged to be part of the decision-making process, which helped facilitate the process. Communication strategies were implemented including newsletters, fact sheets, and website to effectively communicate with the residents and local media about the conservation and environmental benefits of the project.

Yankee Lake Water Reclamation Facility (WRF), Seminole County, Seminole, FL.

Public Involvement Task Lead. This project involved community meetings, presentations, press releases, maintaining a website, and developing newsletters and fact sheets associated with the project. It also involved developing talking points for local leaders and community leaders with regards to the project. This project involved coordination and engagement with local newspapers and their editorial boards and reporters from around the State of Florida. This was a dynamic and fast-paced project that involved developing and implementing public involvement and communication strategies and leading all public information and stakeholder meetings. Didier coordinated with the County's Conservation Manager to inform all stakeholders of Seminole County's aggressive conservation efforts, reuse and water supply initiatives.

Fairbanks Avenue Corridor Study Report, City of Winter Park, Winter Park, FL.

Project Manager. Managed the study report, which involved defining a land use vision to guide future redevelopment in the corridor, determining utility needs required to service this area based on the land use redevelopment concepts, and identifying roadway and signalization improvements that are consistent with and complement the corridor land use vision. The study report also identified potential utility relocations and stormwater treatment upgrades that complemented the corridor land use vision, and established alternatives for funding assistance and delivery of the corridor improvements.

CCT Evaluation Study and Service Line Inventory Development, City of Cocoa, Cocoa, FL.

Client Account Manager. Following a chemical change at the Dyal WTP, the City of Cocoa performed a corrosion control study per the Florida Department of Environmental Protection, distribution system assessment, sampling for Water Quality Parameters at the Point of Entry and Lead and Copper Rule system sampling sites, water quality analysis and modeling, and CCT, and recommendations for optimal water quality parameters.

Nelliann Perez, PhD, PE | Design Manager



YEARS OF EXPERIENCE

19 Years

EDUCATION AND TRAINING

- » PhD, Chemical Engineering, University of Florida
- » MS, Chemical Engineering, University of Florida
- » BS, Chemical Engineering (Minor in Environmental Engineering – Wastewater), University of Puerto Rico

REGISTRATIONS |

CERTIFICATIONS

- » Professional Engineer: PR, GA

OFFICE LOCATION

Gainesville, FL

Why Nelliann? Nelliann is a highly sought-after senior design manager with over 19 years of experience in design management and process engineering across several industries. Her responsibilities include design management for design-build and design-bid-build projects, quality control, schedule and budget control, and services during construction and startup. She currently serves as the South Region Practice Leader (RPL) for design management. As part of the RPL role, she works closely with the Global Practice Leader and other RPLs to provide feedback on current procedures, promote best practices around the region, and be a contact for other design managers. As Enlace's Global chair, Nelliann is a champion of Jacobs' TogetherBeyond strategy, working on the global level to empower Jacobs' Latino talent to realize its fullest potential while contributing to the company's growth.

KEY RELEVANT EXPERIENCE

Norwood Water Treatment Plant Water Phase 1 Expansion, City of North Miami Beach, North Miami Beach, FL.

Design Manager/Quality Control. Jacobs served as the design-build contractor for the expansion of the existing reverse osmosis (RO) and nanofiltration (NF) systems at the Norwood Water Treatment Plant to increase total capacity from 32 to 41 mgd. Nelliann served as the design manager for the design phase of the expansion. Improvements included the addition of sand separators to remove solids present in the raw water, new scale inhibitor system, new feed pumps, a new NF skid, membrane replacement, valve replacement and other expansion/upgrades to existing NF and RO skids to allow for a higher system recovery and operation at higher flux. Improvements also included the addition of pressure vessels and ERD upgrades for RO skids and new interstage booster pumps for NF skids. Commissioning and optimization services during operation of the systems were also provided. The cost of the membrane plant expansion was just \$1.35 per gallon of treatment capacity installed, which is considered very cost-effective. Because of replacement with more efficient membranes and improvements to flux balancing, an immediate annual operational saving was realized. In addition, as part of a valuable engineering effort, the improvements included in this project eliminated the need for a new membrane building planned to meet future capacity.

David L. Tippin Water Treatment Plant High Service Pump Station and Clearwell Improvements, City of Tampa, Tampa, FL.

Design Manager. Jacobs is serving as the design-build contractor for the High Service Pump Station and Clearwell Improvements project for the City of Tampa. Nelliann served as the design manager for the design phase of the \$89.3M project completed in 2021. Jacobs is now constructing the replacement of the high service pump (HSP) station and improvements to finish water disinfection and clearwells that will be completed in 2024. The improvements design changes the existing clearwell and piping configuration to improve the City's ability to maintain the clearwells, eliminate hydraulic restrictions, enhance backwash source/control, improve chemical mixing, extend disinfection contact time while eliminating the need to use finished water storage volume, and increase potable water storage volume. The new HSP is rated at 140 mgd and covers 8 x 1,000-HP vertical turbine pumps, with wet well and building modifications. During the project, Nelliann proactively managed design, scope, and schedule, and implemented value engineering measures in collaboration with the city to deliver an aggressive and cost-effective Guaranteed Maximum Price (GMP). Jacobs included additional upgrades outside the original scope within the original GMP budget by using cost savings and will reach construction completion 5 months ahead of schedule.

Southeast Water Reclamation Facility, Lee County Utilities, Lee County, FL.

Design Manager and Quality Control. Jacobs is the design contractor for the greenfield design of the Southeast Advanced Water Reclamation Facility (AWRF) project for Lee County Utilities. Nelliann serves as the design manager for the 6 mgd AWRF expandable to 10 mgd in the future. The major facilities include headworks (including screening and grit removal), odor control, process bioreactors and splitter box, secondary clarifiers and splitter box, return activated sludge and waste activated sludge pumping, deep-bed filtration, disinfection, effluent transfer pumping, reclaim and reject water storage, reclaimed water distribution, deep injection well, and ancillary equipment. The project is delivered using the construction

management at-risk (CMAR) approach. This project is currently under design, meeting all design schedule milestones within the proposed budget. As design manager, Nelliann manage the design deliverables, scope, and schedule for the project.

West Water Treatment Plant Disinfection Improvements, City of Deerfield Beach, Deerfield Beach, FL.

Design Manager and Quality Control. Jacobs served as design contractor for the replacement of the existing chlorine gas facilities with new sodium hypochlorite storage and feed facility at the West Water Treatment Plant for the City Deerfield Beach. The water treatment plant includes parallel lime softening, nanofiltration (NF), and reverse osmosis (RO) treatment systems. As part of the project the chlorine dosing locations remained and were optimized to reduce chemical use and disinfection byproduct formation. Nelliann served as design manager. She worked in close collaboration with the project manager and the City to ensure that the design ensure a seamless transition from chlorine gas to sodium hypochlorite.

Reclaimed Water Aquifer Storage and Recovery Well System Project, City of Venice, Venice, FL.

Design Manager and Quality Control. Jacobs is serving as the design contractor for the Eastside Advanced Wastewater Treatment Facility Reclaimed Water Aquifer Storage and Recovery (ASR) Well system for the City of Venice. Nelliann serves as design manager for the design phase of a 3.0 mgd ASR well system. The system includes an ASR recharge pump station, inline ultraviolet (UV) disinfection, ASR well and monitoring well, and chemical system. When finalized the project will allow the City to store up to 95% of the excess reclaimed water flows. Working closely with the project manager and the City, Nelliann will deliver the design project one month ahead of schedule.

Southeast Regional Water Reclamation Facility Capacity Improvements Project, Manatee County, Manatee County, FL.

Design Manager. Partnered with McKim & Creed, Jacobs is supporting the County with capacity improvements at the Southeast Regional Water Reclamation Facility (SERWRF). The SERWRF Capacity Improvements will address several components of the treatment plant to provide enhanced biological treatment using the AquaNereda (AGS) process as well as increase hydraulic capacity of those processes. Jacobs is leading the modifications within existing Basins 1, 2 and 3, design of the new AGS process and reaeration basins and modifications to the equalization tank. Jacobs continues to provide CMAR coordination throughout the project, working closely with the prime and the CMAR for Value Engineering (VE) and Early Works. This project is currently under design, meeting all design schedule milestones within the proposed budget. As design manager, Nelliann partners with the Project Manager and manages the design deliverables per the scope and schedule for the project.

Marc Goslow, PE | QA/QC Electrical Design Process



YEARS OF EXPERIENCE

46 Years

EDUCATION AND TRAINING

» BS, Electrical Engineering/
Minor Nuclear Engineering

REGISTRATIONS |

CERTIFICATIONS

» Professional Engineer: FL (#41733)
AL; AR; AZ; CA; GA; IN; KY; LA; MA;
MD; MI; MO; MS; NC; NH; NJ; OH; OK;
PA; SC; TX; VA

OFFICE LOCATION

Jacksonville, FL

Why Marc? Marc is a Principal Electrical Technologist in our Jacksonville office and has supported every JEA wellhead project that Jacobs has delivered over the past 12 years, including St. Johns Forest WTP Well No. 5, Nassau Regional WTP Well No. 3, and Northwest WTP Supply Well Nos. 1 and 2. He established JEA's standard template for wellhead electrical and I&C design, streamlining delivery and reducing both time and cost on subsequent projects. Marc's expertise spans medium- and low-voltage service delivery, system reliability planning, standby power sources for open- and closed transition systems, power distribution design, and the specification and sizing of electrical distribution equipment. His leadership in electrical and I&C design will be central to ensuring reliable, cost effective solutions for the City of Cooper City Project.

KEY RELEVANT EXPERIENCE

North Field Supply Well Rehabilitation Project, JEA, City of Jacksonville, FL.

Lead Electrical/I&C Engineer. Marc responsibilities involved engineering, design, equipment specification, submittal review, construction supervision, site inspection, and project commissioning/startup for multiple renovated supply wells and wellheads. Provided direct client interface and consultation. The WTP's available production capacity to meet peak demand was more than doubled from 1.3 mgd to 3.1 mgd. The project was delivered within half the time it normally takes using traditional Design-Bid-Build (DBB) delivery method.

Buckman WRP Aeration Blower Modifications, JEA, Jacksonville, FL.

Project Consultant. Responsible for electrical SDC functions for the addition of a new medium-voltage electrical building, new aeration blowers, and misc. facility modifications. Handling of all issues associated with the medium-voltage power supply for the WRP including overseeing the splicing of existing 28kV plant feeder cables to tie into the new electrical building, review of protective relay coordination for the new feeder circuits, new 5kV RVSS equipment for the 1000HP aeration blowers, and other items as required during construction.

Buckman Water Reclamation Plant Aeration Basin Modifications, JEA, Jacksonville, FL.

Lead Electrical Engineer. Perform engineering, design, equipment specification, submittal review, contractor and manufacturer interface, and project inspection and startup for staged improvements to the existing aeration basin structure and operation. Electrical elements include replacement of all process equipment and instrumentation for an operational aeration basin, establishment of a ProfNet communication system, and power supply modifications.

Rivertown Supply Wells, JEA, St. Johns County, FL.

Lead Electrical/I&C Engineer. Marc responsibilities involved engineering, design, equipment specification, submittal review, construction supervision, site inspection, and project startup for three new JEA supply wells. Provided direct client interface and consultation. The WTP's available production capacity to meet peak demand was more than doubled from 1.3 mgd to 3.1 mgd. The project was successfully delivered within half the time it normally takes using traditional DBB delivery method.

Supply Well TR43 Rehabilitation, St. Johns County Utility Department, Saint Augustine, FL.

Lead Electrical/I&C Engineer. Marc performed engineering, design, equipment specification, submittal review, construction supervision, site inspection, and project commissioning/startup for one renovated supply well and wellhead. Provided direct client interface.

4G Ranch Wetlands and Central Pasco Beneficial Water Reuse, Pasco County, Pasco County, FL.

Lead Electrical Engineer. Performed engineering, design, equipment specification, submittal review, construction supervision, site inspection, and project start-up for the 4G Ranch Wetlands project. The project required regulating water levels and flow to 15 individual locations across a 400-acre groundwater recharge wetland site. Electrical elements included lightning protection, DC solar power, and AC power for lighting, control valves, and other instrumentation and control equipment.

Boyette Road Reclaimed Water Reservoir, Pasco County, Pasco County, FL.

Lead Electrical Engineer. Marc performed engineering, design and equipment specification to convert pump station design from 100 HP submersible pumps to 500 HP vertical turbine pumps. Provided services during construction to include client interface, submittal review and approval, site coordination with contractor, site inspection, and project startup.

AQUIA WWTF Reuse Treatment Project, Stafford County, VA.

Lead Electrical Engineer. Responsible for the engineering, design, equipment specification, and submittal review for a greenfield wastewater reuse treatment facility along the Aquia Creek in Stafford County, VA. Electrical elements include a new 480VAC service delivery, multiple power distribution centers, AFD controlled influent and effluent pumping systems, multiple UV disinfection trains, 480VAC and 208/120VAC plant power, grounding, lightning protection and illumination. Ongoing project.

Brazosport Water Supply Corporation (BWSC), Harris Reservoir Pump Station, Harris County, TX.

Lead Electrical Engineer. Responsible for the engineering, design, equipment specification, and submittal review for a new surface water river intake pump station along the Brazos River south of Houston, TX. Electrical elements include a new 12.47kV service delivery, 15kV arc-resistant service-entrance switchgear, 5kV arc-resistant MCC, two 4.16kV, 2500HP VFD controlled river water pumps, 480VAC and 208/120VAC plant power, high-resistance grounding, groundwater pump station and inlet structure screen system. Ongoing project.

Gaillard Raw Water Pump Station Electrical Modifications, Mobile Area Water & Sewer System, Mobile, AL.

Lead Electrical Engineer. Perform engineering, design, equipment specification, submittal review, contractor and manufacturer interface, and project inspection and startup for staged improvements to a 70-yr old raw water pump station. Electrical elements include specifying replacement medium-voltage pump motors, medium-voltage switchgear and motor starters, and recommending improvements to a 120/2.4kV utility substation for more reliability service delivery. Ongoing project.

Duck River Reservoir Raw Water Pump Station, City of Cullman, Cullman, AL.

Project Consultant. Responsible for the detailed engineering and design of a greenfield reservoir pump station downstream of the Duck River Dam. Responsible for all detailed engineering, plans and project specifications.

Pilar Doran, PE | QA/QC Design Process



YEARS OF EXPERIENCE

36 Years

EDUCATION AND TRAINING

- » MBA, University of Florida
- » MS, Civil Engineering (Structural), University of Florida
- » BS, Engineering, University of Oklahoma

REGISTRATIONS |

CERTIFICATIONS

- » Professional Engineer: FL (#53512)

OFFICE LOCATION

Gainesville, FL

Why Pilar? Pilar has more than 36 years of experience in the design of water and wastewater treatment plants, including planning, infrastructure improvements and construction management for Public and Private Sectors. As Water Design Manager and past Global Design Management Technology Leader, she leads a network of Design Managers and Engineering Technical Managers, building a Community of Practice (CoP) to maintain and extend a leading position in the Water and Wastewater industry. Pilar is an experienced Design Manager for numerous Public and Private sector projects – complex, multi-discipline, multi-phase, traditional delivery projects along with numerous EPC/Progressive, Design-Build projects, including GRU MSWRF - Phases 1 and 2, Bonita Springs RO WTP, Magnolia WTP, Swoope WTP and FBR Selenium Treatment Facility Hobet Mine site. She is Group Leader (GL) for the Design Management, Project Automation and Specifications group (Gainesville, FL).

KEY RELEVANT EXPERIENCE

RO WTP Expansion and Lime Softening WTP Improvements Design/Build, Bonita Springs Utilities, Bonita Springs, FL.

Design Manager. Design Manager for the expansion of the RO facility from 6.5 to 8.5 mgd and lime system improvements to increase reliability and reduce maintenance. The RO expansion portion of the project includes expanding the existing four RO trains from 6.0 to 8.0 mgd by adding pressure vessels and membrane elements, and installing a new degasifier, transfer pump, and high service pump. Lime system improvements include installing a new hydrated lime storage and feed system, improving disinfection chemical injection and monitoring, covering existing lime system filters, and improved blending of the finished RO and lime softened finished waters.

Green Meadows RO WTP Expansion, Lee County Utilities, Lee County, FL.

Design Manager. Pilar oversaw design of a 16-mgd WTP treating water from three sources. The process trains include a combination of RO treatment of a brackish groundwater with bypass blending of high-quality intermediate water and a separate treatment process for surficial groundwater using cation and anion resin. The ion exchange (IX) system is designed to use bulk virgin brine or an alternative brine source from a backup deep injection well for cation resin regeneration. The estimated

\$35M facility is part of a \$70M project that includes new wells, wellfield pipeline/roadway, and concentrate disposal wells. In April 2019, the Green Meadows RO WTP won the prestigious Global Water Intelligence (GWI) Water Project of the Year award.

David L. Tippin WTF High-Service Pump Station, Clearwell Improvements and Stormwater Reuse, City of Tampa, Tampa, FL.

Assistant Design Manager/Structural Engineer. Pilar assisted in the design management of a multi-discipline team of designers and subconsultants working with construction staff to provide a fast-track delivery of this major plant upgrade. The project increased plant capacity to 100 mgd and added an ozone system for disinfection, new high-rate sand ballasted sedimentation system using the Actiflo® process, intermediate pumping, filter upgrades, washwater recovery, sludge thickening and dewatering facilities expansion, and upgrades to the chemical systems and plant electrical system. The project included construction of several new buildings with critical requirements to match existing plant architecture for this nationally recognized landmark facility. The project was completed via design-build delivery to accelerate overall schedule and ensure all client needs were met, and was the recipient of the 2003 Design-Build Institute of America Water Systems Quality Award.

Northern Region Utilities Improvements, Palm Beach County Water Utilities (PBCWU), Palm Beach, FL.

Project Manager. Responsible for the design execution, permitting and bid phase services for the largest utility conveyance system improvement project ever undertaken by PBCWU. This water and sewer improvement project included a corridor of approximately 17 miles of potable water mains ranging from 12- inches to 32-inches in diameter and wastewater force mains from 10-inches to 24-inches in diameter.

Marathon and Stock Island Seawater RO Desalting Plants, Florida Keys Aqueduct Authority (FKAA), Marathon and Stock Island, FL.

Design Manager/Structural Engineering Lead. In this Project, Pilar served as the Design Manager and Structural Engineering Lead, overseeing upgrades to two seawater RO membrane plants with a combined capacity of 3 mgd and were intended to serve as an emergency water supply source for FKAA. A 1-mgd plant was located in Marathon to supply the Middle Keys, and a 2-mgd plant was located on Stock Island to supply Key West and the Lower Keys. Major renovations and improvements to the existing RO plant on Stock Island included the construction of a new three-story building to house the process equipment and the creation of an emergency operations center for FKAA. On Marathon, an abandoned "old" Navy pump station was renovated and expanded to house RO equipment that had been relocated from the existing RO plant on Stock Island. The existing 600-horsepower RO feed pumps were modified to be driven by new diesel engines and right-angle drives. Waste brine disposal was handled through Class V injection wells.

UCAP Progressive Design-Build, City of Tampa, Tampa, FL.

Quality Manager. Pilar provided an overall quality plan for this major program using the progressive design-build delivery method. The UCAP included a number of individual infrastructure projects to replace and improve the City's water, wastewater, and stormwater infrastructure. The project was delivered under an integrated program management contract. She oversaw all engineering quality control activities including review and coordination of in-house and subconsultant designs, design and constructability reviews, and conformance with the owner's design standards.

RO WTP Design/Build, Bonita Springs Utilities, Bonita Spring, FL.

Design Manager. Pilar oversaw design for the design-build delivery of a new \$40.8M reverse osmosis (RO) WTP. The new facility is located at the site of the existing BSU lime softening WTP. The RO expansion included expanding the existing four RO trains from 6 to 8 million-gallons-per-day (mgd) by adding pressure vessels and membrane elements, and installing a new degasifier, transfer pump and high-service pump. Raw water will be supplied to the plant from eight brackish water wells tapping the Lower Hawthorn and Suwannee aquifer portions of the Upper Floridan aquifer.

Magnolia Avenue WTP & Swoope Avenue WTP Design/Build Projects, Winter Park, FL.

Design Manager. This two-phase program consists of upgrading and expanding a total of four of the City's WTPs. The program is expected to cost approximately \$35M and take 6 to 7 years to complete. Both WTPs utilize Floridan aquifer raw water wells, aeration, storage, chlorination, fluoridation, corrosion control by pH adjustment using sodium hydroxide, and high-service pumping. Jacobs is acting as the Construction Manager for the program, which also includes a program web site and Information Solutions Needs Assessment.

Cherry Point WTP, NAVFAC, Cherry Point, NC.

Design Manager. Design Manager for a new 6 mgd NF WTP that will replace an existing conventional softening and filtration facility. The design included a new NF facility treating existing freshwater wells, new pretreatment, post treatment facilities, storage and high service pumping facilities, as well as iron removal bypass blending treatment.

Hadnot Point WTP, NAVFAC, Camp Lejeune, NC.

Design Manager. Design Manager for the design of a new 8 mgd expandable to 12 mgd NF WTP that will replace an existing conventional softening and filtration facility. The design included a new NF facility treating existing freshwater wells, new pretreatment, post treatment facilities, storage and high service pumping facilities, as well as iron removal bypass blending treatment.

Adams Field WWTP, Little Rock Water & Wastewater Utilities, Little Rock, AK.

Design Manager. This \$20.5M Adams Field WWTP improvements project includes improvements to the existing headworks, increased raw sewage pumping capacity, and removal of hydraulic restrictions to the WWTP. In addition, it includes a reduction of frequency of secondary by-pass events through the installation of flow equalization basins. Improved plant operations were achieved through improvements to the grit and scum collection systems.

J. Robert Dean WTP Phase 1 Upgrade, Florida Keys Aqueduct Authority, Florida City, FL.

Design Manager/Structural Engineering Designer. The expansion of the 27 mgd J. Robert Dean WTP included construction of new wells, upgrading the chlorination and lime softening facilities, addition of a carbon dioxide system for pH adjustment, increasing transfer pumping capacity, and construction of additional finished water storage.

Miami Dade Central District Water Treatment Plant, Miami Dade, FL.

Lead Structural Engineer/Assistant Project Manager. Responsible for the structural design of a reinforced masonry odor control facility for the Miami Dade Central District water treatment plant. This facility houses three major scrubbers to ensure odor reduction and hydrogen sulfide removal of 99.9 percent or a maximum of 22,000 cubic feet per minute (cfm).

GJ Schers, PMP | QA/QC Design Process



YEARS OF EXPERIENCE

33 Years

EDUCATION AND TRAINING

- » MS, Civil Engineering,
Delft University of Technology,
Netherlands
- » BS, Civil Engineering,
Delft University of Technology,
Netherlands

REGISTRATIONS | CERTIFICATIONS

- » Project Management Professional
(#428825)

OFFICE LOCATION

Fort Lauderdale, FL

Why GJ? With over 30 years of experience, GJ is a globally recognized subject matter expert in water technology. He has presented over 70 papers and is an expert in water chemistry and membrane technology. GJ's expertise includes design of different ion exchange and media filtration systems, including greensand, multi-media, sand, activated carbon, and bio-filtration. In addition to new membrane facilities, he also worked on numerous membrane skid replacement projects, including Boynton Beach, Cape Coral, North Miami Beach, Collier County, and Bonita Springs Utility. He is a chair of the American Water Works Association (AWWA) M76 Workgroup developing a pilot manual to be used as best practices guide in the US.

KEY RELEVANT EXPERIENCE

J.A. Buckley and Joe Mullins WTPs Upgrades, City of Melbourne, Melbourne, FL.

Principal Technologist/Project Manager. Jacobs provided asset management, options evaluation (Phase 1) and master planning (Phase 2) services for the City's water facilities, which include a 20-mgd surface water WTP and a 5-mgd groundwater RO WTP co-located at one site. Work also covered membrane selection services through the pilot study, improvements to electrical systems, refurbishment of RO feed pumps, and replacement of degasifier and scrubber systems. GJ oversaw a large design project to expand the RO WTP to 10 mgd capacity, which is currently at 90% design completion. At the surface water WTP, a filter improvements project was designed and bid, and is currently in construction. A Phase 2 pilot study was recently completed, which confirmed feasibility of using dual membrane treatment on surface water to reduce whole life cost and improve finished water quality by removing PFAS, algae toxins and other contaminants of emerging concern effectively. Managed design for RO WTP expansion and master planning for surface and groundwater facilities. Included membrane pilot study, 4-log virus compliance, and SCADA improvements.

Norwood WTP NF/RO Expansion & Lime Softening Upgrades, City of North Miami Beach, North Miami Beach, FL.

Principal Technologist / Engineering Manager. Managed planning and design for progressive design-build expansion of the 32 mgd Norwood WTP, adding NF/RO capacity and lime softening upgrades. Included master planning, pilot testing,

corrosion control, and chemical system improvements.

Membrane Element Replacement and Treatability Testing at West WTP and Generator Replacement, City of Boynton Beach, Boynton Beach, FL.

Principal Technologist/Project Manager. Work included a study to identify the best NF membrane replacement option, technical specifications and bid forms. The study looked at finished water goals and different operational scenarios to select the best membrane combination for softening of hard and colorful Surficial Aquifer water. Work continued with verifying performance of pre-selected membranes during a 6-month pilot study. The study also looked at pre-treatment options to remove particulates present in the raw water and eliminate sulfuric acid during pre-treatment. This work continues now with a conceptual design to replace pre- and main treatment at the West WTP rated at 10 mgd. For the other project at the east WTP, a design-criteria package was developed to replace the standby generators, including a 625 Kw, Tier 4 machine.

RO WTP Expansion, Bonita Springs Utility, Bonita Springs, FL.

Principal Technologist. GJ provided treatment process services to design a 2-mgd expansion of an existing reverse osmosis (RO) WTP. The expansion involved the addition of sand strainers for full flow, modification of existing RO skids to accommodate additional pressure vessels and membrane elements to expand from 1.5 to 2-mgd skids, modification to existing chemical feed systems, and addition of a new degasifier, odor scrubber and transfer pump. This work was completed in 2018 and currently a new project is ongoing to further expand the capacity of the RO system to convert from lime to membrane softening to simplify operations, reduce costs and remove PFAS.

Master Plan, 4-Log Virus, LS Studies and Expansion, and NF and RO Skid Replacement, City of North Miami Beach, North Miami Beach, FL.

Principal Technologist. GJ developed master plan for North Miami Beach water facilities and identified best methods to comply with Florida's groundwater rule for 4-log virus compliance. The existing Norwood-Oeffler WTP, rated at 32 mgd, contains 3 separate trains involving LS, NF, and RO. Work included bench/full-scale testing to define breakpoint chlorination curves for groundwater, chlorine decay tests and system distribution simulation (SDS) test and to optimize LS in regards of hardness, color, and suspended solids removal. The work continued with the design and construction of NF and RO membrane expansion with an additional 6 mgd capacity (Phase 1) and lime softening expansion / rehabilitation (Phase 2). The membrane expansion included new sand separators, additional pressure vessels and membrane elements to increase skid capacity, modifications to membrane skid piping to accommodate higher flows and chemical improvements to increase system recovery. The LS expansion included a new LS clarifier, chemicals for increased color removal, recarbonation system, media filters, transfer/high services pumps, elevated storage, and other replacement and renewal (R&R) needs.

Anion/Ion Exchange Systems Treatment Upgrades for WTP Operations, City of Deerfield Beach, Deerfield, FL.

Principal Technologist/Project Manager. GJ led the design of the chlorine conversion project which covers the replacement of gaseous chlorine cylinders and chlorinators with a new sodium hypochlorite storage and feed system, a much safer alternative, and addition of a carbon dioxide system. This project is currently in construction. The team also identified best methods to comply with the Groundwater Rule at 20-mgd Deerfield WTP containing 3 co-located treatment trains involving LS, NF, and RO. Alternative methods for transferring membrane concentrate streams to a deep injection well were also developed. The last, ongoing project involved the replacement of the LS train and as part of the work, Jacobs updated water demand projections, provided detailed process and condition assessments and a corrosion study to establish finished water goals to maintain optimal water quality in the distribution system. Currently, pilot testing is ongoing for PFAS removal covering IX, GAC, and greensand filter technologies.

Ion Exchange Study, Town of Davie, Davie, FL.

Project Technical Lead. Project identified the origin of foul odor from a 4-mgd fixed bed IX system for color removal, developed alternatives to solve the problem, and implemented the preferred alternative. The project involved visits to other IX systems to review design criteria and operational conditions, water quality data review, and discussions with resin and system integration vendors. Phase 2 included implementing a short-term solution involving installation of a carbon dioxide system to reduce pH before feeding IX system and performance verification through bench-scale testing. Phase 3 included technical assistance during the system start-up. The IX system is now operating successfully and has resolved the problem with the foul odor.

Source Water Facility GAC Filters Improvements, City of Marco Island, Marco Island, FL.

Project Manager. The work covers the addition of GAC filters to the source water facility of the City of Marco Island, including new backwash pumps and air scour blowers, replacement of lake transfer pumps, and improvements to the electrical and instrumentation systems. The GAC system will provide biological pretreatment of the raw water that feeds the surface water membrane treatment facility on the island and reduce organic fouling. The project has been designed and is currently in construction.

OCCT Evaluation and DBP Formation Reduction Studies, Plant Improvement Evaluation and LS to NF Replacement Feasibility Study, City of Cocoa, Cocoa, FL.

Principal Technologist. Following a chemical change at the Dyal WTP, the City of Cocoa performed an optimal corrosion control study per the Florida Department of Environmental Protection, distribution system assessment, sampling for Water Quality Parameters at the Point of Entry and Lead and Copper Rule system sampling sites, water quality analysis and modelling and OCCT, and recommendations for optimal water quality parameters. As part of another project, GJ developed improvement alternatives for the 60 mgd rated combination of ground and surface WTP. A condition assessment was performed to identify R&R needs to meet future demands, regulations, and water quality goals. Maintaining the existing treatment was compared with options that either added treatment processes to existing or replaced existing with membrane filtration. Work is continuing with a LS to NF replacement feasibility study covering concentrate disposal options study, source water assessment and optimization study and pilot testing to verify membrane performance to treat the Floridan Aquifer source water.

Thein Win, PE, LEED AP | HEE | Electrical Design Lead



YEARS OF EXPERIENCE

24 Years

EDUCATION AND TRAINING

» BS, Electrical Engineering, Alfred University

REGISTRATIONS |

CERTIFICATIONS

» Professional Engineer: FL
» LEED Accredited Professional

OFFICE LOCATION

Boca Raton, FL

Why Thein? Thein Win brings over 24 years of experience in electrical, instrumentation, communication, and control system design for water and wastewater treatment facilities. His expertise includes medium and low voltage electrical distribution systems, SCADA systems, PLC programming, and HMI development for advanced treatment processes such as nanofiltration, reverse osmosis, lime softening, and reclaimed water systems, aquifer storage and recovery (ASR) wells, wellfields, lift stations, raw water wells, water and wastewater treatment plants. Skilled in preparing specifications, value engineering, energy analysis, cost estimation, and on-site inspections, Thein ensures reliable and efficient project delivery. He is proficient in SKM Power Tools™ for Windows Dappers, CAPTOR and TMS, AutoCAD, SolidWorks, LitePRO, and advanced PLC/HMI programming. Thein has led electrical and I&C design for major projects, including Palm Beach County WTP improvements and City of Boca Raton WTP rehabilitation.

KEY RELEVANT EXPERIENCE

City of Fort Lauderdale MCC Replacement at GTL WWTP, Fort Lauderdale, FL.

Electrical Design Lead. This project involved comprehensive services such as project management, master planning, permitting, design (including process, civil, structural, electrical, and SCADA/I&C), hydraulic modeling, and construction administration. Designed and delivered the replacement of multiple MCCs and substations at the GTL WWTP, including associated wiring and raceways, and completed an updated Power System Study. The project was executed successfully with careful sequencing to maintain plant operations. Thein managed design and engineering support services.

WUD – WTP 8 Finished Water Improvements, Palm Beach County, FL.

Electrical and I&C Design Lead. Electrical and instrumentation & control design, construction inspection services, and PLC programming service for construction of WTP 8 Finished Water Aeration system. Project consists of new power feed to new

aeration system at 2 - 5.0MG Storage Tanks, new power panels, new variable frequency drives (VFD's) for aerators and mixers. Instrumentation and control/SCADA service includes control implementation for Plant PLC and SCADA system related to the aeration system.

WUD – WTP 2 Filter Improvements, Palm Beach County, FL.

Electrical and I&C Design Lead. Electrical and instrumentation & control design, construction inspection services, and PLC programming service for two (2) – 350 HP High Service Pumps and Lime Slurry pumping system at WTP 2, including designing electrical distribution modification for new pumps and process, new motor control center (MCC), new variable frequency drives (VFD's), and starters. Instrumentation and control/SCADA service includes new lime slurry control panel, new instruments, and an automated lime slurry control and other PLC programming.

WUD – WTP 9 VFD and Grounding Improvements, Palm Beach County, FL.

Electrical and I&C Design Lead. Provided electrical and instrumentation & control design, construction inspection services, and PLC programming service for VFD replacements of High Service Pumps, Membrane Feed Pumps. Design new active filters for harmonic mitigation as well as grounding improvements for the electrical system. Design new power feed from plant electrical system to the remote Chlorine Building so that plant normal and emergency power will supply power to the chlorine system.

WTP Rehabilitation of the Membrane Pretreatment Pressure Filters, City of Boca Raton, FL.

Electrical and I&C Design Lead. Electrical and instrumentation & control design, and construction inspection services for construction of City of Boca Raton WTP Rehabilitation of the Membrane Pretreatment Pressure Filters Project and subcontractor under McCafferty Brinson Consulting. The project consisted of designing new 480V power distribution panels for the replacement motorized valves, new instruments for raw water panel and feed water panel, new instruments for pressure filters, and modification of the PLC panels.

Mark Luther, PE | HEE | Electrical Design



YEARS OF EXPERIENCE

38 Years

EDUCATION AND TRAINING

» BS, Electrical Engineering,
Boston University

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#48801)

OFFICE LOCATION

Boca Raton, FL

Why Mark? Mark brings 38 years of experience in electrical engineering for water and wastewater facilities. His expertise includes electrical power distribution, instrumentation and control (I&C), communications, and SCADA system design for complex treatment plant upgrades and expansions. Mark has served as Electrical, I&C, and SCADA Design Lead on numerous projects, including headworks improvements, blower and switchgear upgrades, biosolids facilities, reclaimed water systems, and clarifier and filtration improvements. He works closely with owners and multidisciplinary teams to deliver reliable, cost-effective electrical and control system solutions that support efficient and safe plant operations. Mark holds a BS in Electrical Engineering from Boston University and is a licensed Professional Engineer in Florida.

KEY RELEVANT EXPERIENCE

ECRWRF Headworks and Grit Removal Improvements, City of West Palm Beach, Palm Beach, FL.

Electrical, I&C and SCADA Design Lead. Electrical, Instrumentation, Control, and SCADA design of the replacement of four (4) existing bar screens with perforated plate band screens. He worked closely with the design team and the Owner to develop the electrical and instrumentation design to stay within the project budget. The design included power, control and instrumentation systems. Also developed control descriptions for screening, grit removal systems, and overall process control systems.

ECRWRF Blower and Switchgear Improvements Project, City of West Palm Beach, Palm Beach, FL.

Electrical, I&C and SCADA Design Lead. Performed Electrical, Instrumentation and Control Design/SCADA for a new medium voltage blower electrical building including new switchgear, solid state reduced voltage starters, medium voltage power

wiring, new process controller. Designed expansion of existing medium voltage switchgear in Main Electrical Building to act as the new primary point of power distribution in the plant including migration of distribution circuits from the existing legacy Main 5kV Switchgear; designed new plant medium voltage utility power feed from power utility substation to Main Electrical Building; designed relocation existing medium voltage turbine generator power circuits to the Main Electrical Building medium voltage switchgear; designed the re-configuration of the power system transfer control scheme to interface with the switchgear in the Main Electrical Building.

ECRWRF Biosolids Improvements Project, City of West Palm Beach, Palm Beach, FL.

Electrical, I&C and SCADA Design Lead. Designed the electrical, instrumentation, control and SCADA for the Solids Dewatering Building and process.

Broward County Water and Wastewater Services – NRWTP Reclaim System Expansion, Broward County, FL.

I&C and SCADA Design Lead. Designed Instrumentation and Control System/SCADA for 22 mgd reclaimed process upgrade. The project included new filters; new filter feed pumps, new chlorine contact chamber; reclaimed water storage and distribution and a hypochlorite chemical system.

SRWRF Secondary Clarifier and Effluent Filtration Improvements, Palm Beach County Water Utilities, Palm Beach, FL.

Electrical, I&C & SCADA Design Lead. Provided electrical, instrumentation and control engineering/SCADA and design for upgrades to eight existing clarifiers and up-grades/additions to the existing effluent filtration system including new filters, pumps, instruments, and power distribution equipment.

Dave Nicholson, PE | Electrical Study/Energy Optimization



YEARS OF EXPERIENCE

25 Years

EDUCATION AND TRAINING

- » BS, Electrical Engineering, University of Central Florida
- » AS, Electronic Technology, College of Central Florida

REGISTRATIONS | CERTIFICATIONS

- » Professional Engineer: FL (60201); AL; NC; GA

OFFICE LOCATION

Gainesville, FL

Why Dave? David has 25 years of experience in water and wastewater treatment facility design in the Southeast ranging from pump stations and headwork modification in the Florida Keys to new treatment facility designs in Florida, Alabama, and North Carolina along with treatment plant expansions and modifications in Texas, Kansas, New Jersey, and South Carolina. David specializes in the electrical design of power distribution systems for water treatment, wastewater treatment, and solid waste facilities.

KEY RELEVANT EXPERIENCE

Green Meadows Water Treatment Plant, Lee County Utilities, Fort Myers, FL.

Electrical. The Jacobs team provided design, permitting, and professional services during construction of Lee County's Green Meadows WTP—a 14-mgd reverse osmosis (RO) and ion exchange (IX) water treatment plant. Throughout the project, the Jacobs team worked alongside Lee County's CMAR (Garney Construction) in a highly collaborative and successful manner to facilitate construction activities. Responsibilities included electrical activities.

David L. Tippin WTF High Service Pump Station, City of Tampa, Tampa, FL.

Lead Electrical Engineer. Served as the lead electrical engineer for the High Service Pump Station Replacement design-build project. The project consisted of replacing the existing high service pumps with eight 900 horsepower medium voltage pumps. Four pumps were on variable frequency drives and four pump on reduces voltage starters. Along with the addition of a chlorine contact chamber and modification to the existing clear wells. The internal distribution system was designed to provide sufficient redundancy so that no single fault or loss of power would disrupt more than one bus on a double-ended switchgear or motor control center.

BSU Generator Improvements and Expansion Project, Bonita Springs Utilities (BSU), Bonita Springs, FL.

Electrical Engineer. Replacement of the existing 2,000 kW diesel generator with two new 2,000 kW generators (one diesel and one natural gas) operating in parallel at

BSU RO WTP. Project required the existing medium-voltage switchgear to be converted from a single ended line-up to a triple ended switchgear line-up with a generator bus in the middle.

Blacks Ford WRF Phase 4 Expansion, JEA, Jacksonville, FL.

Lead Electrical Engineer. Served as the lead electrical engineer and provided the reliable, redundant electrical design for the \$55M expansion of the Blacks Ford WRF from 3 mgd to 6 mgd. The WRF's existing connected load is approximately 2,000 kilovolt- amperes (kVA). The current expansion under construction is adding approximately 2,000 kVA of additional connected load, and the future expansion will add another approximately 2,000 kVA of connected load, for an approximate total plant buildout of 6,000 kVA of connect load. Four plant power distribution options were evaluated for accommodating total plant buildout. Option 4 was selected, which involved a new 480-volt metered service and triple-ended switchgear with a generator bus and new generator to distribute power to the new process loads through new motor control centers (MCCs). Existing MCC-3 and MCC-4 were removed from the existing switchboard and added to the new switchgear, making room (capacity) to power the new Administration/Operations building and new centrifuge from the existing switchboard. The future expansion will require an additional fourth service with new switchgear and generator. Dave designed the new electrical distribution system to provide Class I reliability. This was achieved by providing sufficient standby generation capacity to supply all critical plant loads. The internal distribution system was designed to provide sufficient redundancy so that no single fault or loss of power would disrupt more than one MCC or bus on a double-ended MCC that serves loads common to a critical unit. This was achieved by evenly splitting the loads between two or more MCCs.

City of St Pete SWWRF Upgrades (CMAR), City of St. Petersburg, St. Petersburg, FL.

Electrical Engineer. Design services for the City of St. Petersburg SWWRF Capacity Improvement CMAR (Haskell) delivery project. The work included new injection wells and wellhead improvements, piping, temporary pump station, and connections. Design and construction included three (3) new injections and monitoring wells, and the following CAR packages. Package (1) upgraded 16-inch reclaimed water main wellhead infrastructure to 24-inch; package (2) temporary

22 mgd pump station using diesel driven skid mounted critically silenced centrifugal pump, and temporary HDPE piping to IW-4; package (3) offsite IW-6 temporary connection to 30-inch reclaimed water pipeline; package (4) update of 42-inch piping to IW-5 and reclaimed water loop. Responsibilities included electrical activities.

West Melbourne Ray Bullard WRF Expansion Phases I, II, and III, City of West Melbourne, West Melbourne, FL.

Lead Electrical Engineer. David served as Lead Electrical Engineer for the three-phase design-build expansion of the water reclamation facility and reuse distribution system. The expansion of the plant electrical distribution system consisted of expanding the exiting single-ended switchgear to double-ended and increasing the on-site stand-by generator capacity from 750 KW to 1750 KW with generator load dump and lockout provisions.

Continuing Contract Utility Engineering Services, Seminole County Environmental Services Department, Seminole County, FL.

Electrical Design QA/QC Reviewer/Construction Services. David performed electrical design QA/QC reviews for Heathrow Master Pump Station, Heathrow Well Improvements, Lynnwood WTP Improvements, Marham Regional WTP Upgrade, and Seminole County SER WTP Upgrade. He also provided construction services on Yankee Lake Surface WTP.

JEA Buckman WRF BNR Modification and Grit Removal, JEA, Jacksonville, FL.

Lead Electrical Engineer. This project for the 52-mgd WRF involved a process modeling evaluation to assess retrofitting the existing aeration basins. The goal was approximately 6 mg/L total nitrogen in the effluent to achieve compliance with the anticipated total maximum daily load for the facility. A site visit was conducted, plant operating data was reviewed, biological models were developed and calibrated, and process alternatives were evaluated. Modeling determined that JEA could achieve the required performance by modifying the existing aeration basins to attain a step-feed configuration.

GRU Main Street WRF Capacity and Renewal Upgrade Design-Build, Gainesville Regional Utilities, Gainesville FL.

Lead Electrical Engineer. This \$125M project will increase the capacity of the Main Street WRF from 7.5 to 10 mgd on a constrained site, while improving the treatment process, replacing aging infrastructure, and increasing operational flexibility. Improvements include the addition of a new master lift station, headworks, odor control, anoxic/anaerobic basins, blower building, aeration modifications, process basin modifications, effluent filter expansion, chlorine contact basin improvements, new electrical buildings, conversion of the electrical system to medium voltage, an emergency generator, and covered vehicle equipment and storage.

JEA Greenland WRF, JEA, Jacksonville, FL.

Lead Electrical Engineer. Provided a reliable, redundant electrical design and construction services for this new \$150M, 4-mgd treatment facility. Three plant power distribution options were evaluated for accommodating total plant buildout. Option 3 was selected, which involved two 480-volt metered service, two triple-ended switchgear with a generator bus, and two 2.6-MW generators to distribute power to the new process loads through new motor control centers (MCCs). Dave designed the new electrical distribution system to provide Class I reliability, which was achieved by providing sufficient standby generation capacity to supply all critical plant loads. The internal distribution system was designed to provide sufficient redundancy so that no single fault or loss of power would disrupt more than one MCC or bus on a double-ended MCC that serves loads common to a critical unit. This was achieved by evenly splitting the loads between two or more MCCs.

Steven Young, PE | I&C Programming Design (SCADA) Lead



YEARS OF EXPERIENCE

21 Years

EDUCATION AND TRAINING

» BS, Electrical Engineering Technology

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#51629)
» AVEVA Wonderware Certified Application developer

OFFICE LOCATION

Orlando, FL

Why Steve? With 21 years of experience, Steve is a seasoned SCADA programmer specializing in water and wastewater systems. As part of Jacobs' water business group, he leads HMI design and programming, including architecture development and software standards. Steve's skill set spans control system evaluation, HMI graphics design, and plant startup support—ensuring systems are intuitive, efficient, and operationally robust. His hands-on experience with utility SCADA and computer control systems makes him the ideal lead for evaluating Cooper City's treatment facility controls and recommending upgrades that improve reliability, usability, and long-term resilience.

KEY RELEVANT EXPERIENCE

Reverse Osmosis (RO) Water Treatment Plant SCADA Upgrade, City of Cooper City, Cooper City, FL.

Lead HMI Programmer. Lead HMI programmer utilizing GE iFIX environment for SCADA upgrade of reverse osmosis water treatment plant. Developed HMI SCADA standards, designed software frameworks, and configured two physical server hosts with virtualized environments. Developed HMI graphics and controls including historian and historical trends for RO trains, numerous chemical injections, Clearwell, high service pumps, and wastewater. Configured communications with Allen-Bradley PLCs. Installed three thin clients and panel PC for HMI and historian trend viewing. Performed plant start-up and troubleshooting. Provided onsite and remote troubleshooting of the SCADA system.

Joe Mullins Reverse Osmosis (RO) Water Treatment Plant SCADA Upgrade, City of Melbourne, Melbourne, FL.

Lead HMI Programmer. Lead HMI programmer utilizing GE iFIX environment for SCADA upgrade of reverse osmosis water treatment plant. Developed HMI SCADA standards, designed software framework, and configured two physical server hosts with virtualized environments. Developed HMI graphics and controls including historian and historical trends for RO trains, numerous chemicals injections, clear-

well, high service pumps, and wastewater. Configured communications with Allen-Bradley PLCs. Installed three thin clients and a panel PC for HMI and historian trend viewing. Performed plant start-up and troubleshooting. Provided onsite and remote troubleshooting of the HMI system.

Claude H Dyal WTP SCADA Upgrade, City of Cocoa, Cocoa, FL.

Lead HMI Programmer. Dyal WTP is a large multi-facility including 3 water treatment plants and 3 booster stations. Water plants include ground water supply and surface water supply facilities including 82 PLCs, 19HMIs, and 6 panel mount HMIs. Programming included controls of a large well field (46 PLCs). Steven developed Wonderware standard base objects for utilization in the Orchestra galaxy environment with Siemens OPC server communications. He developed HMI graphics and controls including historian and historian client configuration for ground water and surface water plant with ozone system. He configured and installed three physical servers housing nine virtualized servers for Wonderware HMI and historian controls. He configured and installed 12 thin clients for HMI and historian client viewing. He performed plant start-ups, and on-site troubleshooting of HMI system.

PRASA Water System O&M, Puerto Rico Aqueduct and Sewer Authority (PRASA), Arecibo, Puerto Rico.

SCADA SME, HMI Lead. Led a team to evaluate the AVEVA (Wonderware) System platform software galaxy programming for the water and wastewater system for the entire island of Puerto Rico. Reviewed system architecture and programming to make recommendations for SCADA system improvements. Led team in the creation of redesigning of AVEVA galaxy utilizing AVEVA OMI software for implementation and testing.

The Villages SCADA Upgrade, City of The Villages, The Villages, FL.

Lead HMI Programmer. Led the HMI programming team in the design and implementation of an upgrade to VTSCADA HMI system. Developed HMI SCADA standards and designed the VTSCADA software architecture, implementation, and configuration of the (4) Villages districts. Led the programming team in the design of all HMI screens and upgraded from existing Citect HMI screens to VTSCADA. Configured communications for all PLCs across all districts. Configured historian and remote alarming features within VTSCADA.

John A. Buckley Surface Water Treatment Plant (WTP) SCADA Upgrade, City of Melbourne, Melbourne, FL.

Lead HMI Programmer. Lead HMI programmer utilizing GE iFIX environment for SCADA upgrade of surface water treatment plant. Developed HMI SCADA standards, designed software framework, and configured three physical hosts with virtualization environment. Developed HMI graphics and controls including historian and historical trends for surface water treatment process including ozone system. Configured communications for AllenBradley PLCs and remote I/O. Installed six thin clients for HMI and historian trend viewing. Performed plant start-up and troubleshooting. Provided onsite and remote troubleshooting of HMI system.

Remote Sites Upgrade, City of Melbourne, Melbourne, FL.

Lead HMI Programmer. Lead HMI programmer utilizing GE iFIX software to upgrade six remote booster stations and monitoring stations in water distribution system. Implemented Fortinet Firewalls at each location to communicate back to the main plant via VPN communications. Updated HMI graphics for each site implementing updated automation PLC logic.

Hollywood WTP, Immokalee WTP, Big Cypress Wastewater Treatment Plant (WWTP) Upgrades, Seminole Tribe of Florida, Seminole, FL.

HMI Programmer. HMI programmer in Wonderware System Platform for upgrades to Hollywood WTP, Immokalee WTP, and Big Cypress WWTP including creating new graphics and controls for existing systems and chemical improvements. Performed plant start-ups and assisted with troubleshooting.

SCADA, Oklahoma City Utilities Department, Melbourne, FL.

HMI Standards and Template Designer/Programmer. Developed SCADA HMI standards for Master Plan and Object Template framework in Wonderware System Platform environment. Performed graphic development and graphic template structure development for the multimunicipal "Smart City" SCADA system.

David L. Tippin Water Treatment Plant Industrial Control System Upgrade, City of Tampa, Tampa, FL.

Lead HMI Programmer. Lead HMI programmer utilizing AVEVA (Wonderware) System Platform for the upgrade of the water treatment facility. Developed HMI ICS standards for graphic implementation on HMI system for the entire facility. Designed software framework for the AVEVA System Platform environment. Developed AVEVA standard objects for utilization in the System Platform galaxy environment with AllenBradley PLCs.

Jorge Atoche, PE | Water & Wastewater Processes and Mechanical Lead



YEARS OF EXPERIENCE

24 Years

EDUCATION AND TRAINING

- » MS, Civil Engineering,
Louisiana State University
- » BS, Chemical Engineering,
Universidad Autonoma de Yucatan

REGISTRATIONS | CERTIFICATIONS

- » Professional Engineer: FL (#81647);
LA

OFFICE LOCATION

Tampa, FL

Why Jorge? Jorge has over 24 years of water resources project engineering experience including water planning and evaluation, raw water supply design, water treatment and membrane facility design, residual disposal design, water storage, pumping and conveyance design. Mr. Atoche has provided operational assistance to several membrane facilities including the City of Plantation East and Central WTPs, the City of Hallandale Beach, the City of Fort Lauderdale, The City of Cooper City and the Seminole Tribe of Florida. Jorge has extensive direct experience in construction administration of water resources projects and understands the regulatory permitting process and the typical and innovative project delivery methods. Key skills and areas of expertise include membrane desalination technology, water treatment process design, design of advanced treatment processes for water reclamation, design and construction administration of raw water supply facilities and concentrate disposal systems, design and construction administration of drinking water treatment, storage and distribution facilities design and construction administration of wastewater and reclaimed water treatment facilities, water resources engineering and master planning, water treatment commissioning and operational assistance as well as project and construction management.

KEY RELEVANT EXPERIENCE

Cooper City WTP Membrane Replacement Project, City of Cooper, Cooper City, FL.

Project Engineer/Manager. The project involved replacing membrane elements in four treatment trains, upgrading various valves, and installing additional pressure vessels. Mr Jorge was responsible for preparing the contract documents and providing bidding assistance. He oversaw the replacement of membrane elements in four treatment trains along with valve upgrades and additional pressure vessel installations.

City of Fort Lauderdale's Peele-Dixie Membrane Plant Construction, City of Fort Lauderdale, Fort Lauderdale, FL.

Project Engineer. Participated as a Project Engineer for the construction services

for the Peele-Dixie Membrane Plant. Jorge assisted with construction management and inspection services and participated in the startup activities for this facility. Responsible for production of the Membrane Plant O&M manual including the development of standard operating procedures. Also involved in finished water corrosion control evaluations performed at the facility. Construction services included a 12mgd membrane softening facility, two 4mg storage tanks, seven chemical storage and feed facilities (sulfuric acid, scale inhibitor, sodium hydroxide, fluoride, sodium hypochlorite, aqueous ammonia, and corrosion inhibitor), air strippers/Clearwell, and high service and transfer pump stations.

City of Fort Lauderdale Peele-Dixie 6MGD Reverse Osmosis Expansion, City of Fort Lauderdale, Fort Lauderdale, FL.

Project Engineer. Responsible for production of the basis of design report for the 6-mgd reverse osmosis facility expansion. Mr. Atoche also prepared a preliminary opinion of probable project cost and a preliminary project delivery schedule. The scope of this project includes pre-treatment, membrane treatment, degasification, odor control, transfer pumping, chemical systems, concentrate disposal pumping, high service pumping, electrical, and control improvements.

City of Hallandale Beach Membrane WTP RO Expansion, City of Hallandale Beach, Hallandale Beach, FL.

Project Engineer. Responsible for producing the RO Expansion Technical Memorandum. This Technical Memorandum provides a conceptual understanding of the major facilities needed to produce 9mgd of finished water utilizing the Floridan aquifer. The scope included pretreatment, membrane treatment, degasification, odor control, transfer pumping, chemical systems, concentrate disposal, high service pumping and electrical and control improvements.

Northeast Regional WTP, Collier County, Collier, FL.

Project Engineer. Served as Project Engineer to produce the basis of design report for the Northeast Regional Water Treatment Plant raw water supply wellfield. The scope of this project included property acquisition activities, identification of required easements, development of the design criteria, preparation of the preliminary wellfield layouts, preparation of preliminary well-site configurations, selection of raw water transmission mains and electrical system routes, and identification of permitting requirements.

WTP Improvements, City of Deerfield Beach, Deerfield Beach, FL.

Technologist/Process Mechanical. Provided process-mechanical evaluation support during the WTP condition assessment and other project tasks. He was also responsible for the process and hydraulic assessment of the nanofiltration (NF) and reverse osmosis system (RO) treatment systems.

Brighton Reservation WTP Improvements, Seminole Tribe of Florida, Hollywood, FL.

Project Engineer. Served as a Project Manager and Process/Mechanical Engineer and provided engineering services during construction for the construction of multiple improvements to the 2 mgd RO membrane treatment plant. He also provided construction services and start-up assistance.

WTP Improvements, City of Sarasota, Sarasota, FL.

Project Engineer. Jorge served as project engineer for upgrades and improvements to the City's WTP. He provided civil/mechanical/process design support. He was also responsible for yard piping design and the Maintenance of Plant Operations plan. The project included new pressure filters for pretreatment to the IX system, new degasifiers and odor control, a new corrosion inhibitor chemical system and water quality monitoring upgrades.

Central and South Advanced WWTFs, City of Fort Myers, Fort Myers, FL.

Project Engineer. Project Engineer for the Central and South Advanced Wastewater Treatment Facilities Chlorination/Dichlorination Improvements. He assisted with construction coordination/ management during construction services of the new chlorination/dichlorination facilities, chemical buildings and high service pump stations.

City of Plantation Gulfstream Wastewater Master Pump Station, City of Plantation, Plantation, FL.

QA/QC Reviewer. Jorge served as Project Engineer for the design of the Gulfstream Wastewater Master Pump Station. He was responsible for the civil and mechanical design, and overall project coordination. He also aided during construction of the facility. The facility included a 15 mgd inline booster pump station, a site sanitary lift station, an emergency generator, fuel storage facilities and new electrical and SCADA facilities.

Water and Wastewater Master Planning, Riviera Beach Utility District, Riviera Beach, FL.

Project Engineer. Jorge was responsible of performing hydraulic modelling for the wastewater transmission system, evaluating, and providing recommendations for required capital improvements, preparation of project cost estimates and production of renewal and replacement schedules. The City's infrastructure was evaluated relative to: 1) capacity to meet future growth (hydraulic modelling) 2) regulatory compliance (current and future regulations); 3) water quality and 4) renewal and replacement to ensure long-term sustainability. This project identified \$159M in water and \$56M in wastewater infrastructure improvement needs.

Immokalee Reservation WWTP, Seminole Tribe of Florida, Immokalee, FL.

Design Manager. Civil and Process-Mechanical Design: Jorge served as design manager of the new greenfield 250,000-gpd wastewater treatment facility. He was also responsible for the civil, mechanical and process design. He was also involved with project/construction management and engineering services during construction. The plant utilized a MLE process with pretreatment screening and grit, biological treatment, clarification, aerobic digesters and chlorine disinfection.

Plantation East WTP Membrane Replacement Project, City of Plantation, Plantation, FL.

Project Engineer. Served as a Project Engineer for the City's 12 mgd East WTP Membrane Replacement Project. He was responsible for coordinating the membrane pilot testing, performing calculations for full-scale membrane performance projections, post-treatment stabilization modifications, and conducting present worth evaluations for the membrane manufacturer selection.

Tao Fu, PE | Mechanical Design



YEARS OF EXPERIENCE

30 Years

EDUCATION AND TRAINING

- » MS, Civil Engineering, Clarkson University
- » BS, Mechanical Engineering, Huazhong University of Science & Technology

REGISTRATIONS | CERTIFICATIONS

- » Professional Engineer: FL (#63138)

OFFICE LOCATION

Gainesville, FL

Why Tao? Tao has 31 years of experience planning, designing, and commissioning water and wastewater pump stations and treatment facilities. Tao is a process mechanical engineer with extensive experience in the planning, designing, startup / commissioning and troubleshoot of water and wastewater treatment facilities, pump station, reservoirs, and conveyance systems. His experience also includes permitting, report preparation, and service during construction. Tao has been the lead mechanical engineer for eight projects with new 500 hp or larger pumps, and numerous projects with small pump stations. Tao is known for developing mechanical layouts that minimize single points of failure while ensuring efficient operations.

KEY RELEVANT EXPERIENCE

RO WTP Expansion Progressive DB, Bonita Springs Utilities, Bonita Springs, FL.

Lead Mechanical Engineer. Lead Mechanical Engineer for the expansion of RO plant from 6 mgd to 8 mgd. Designed all processes including well pumps, sand strainers, RO skids, degasifiers, high service pumps, Lime silo, and permeate pump station.

Green Meadows WTP, Lee County Utilities, Fort Myers, FL.

Lead Mechanical Engineer. Served as team lead, providing design, permitting, and professional services during construction of a 16 mgd reverse osmosis (RO) and ion exchange (IX) WTP. The Jacobs team worked alongside Lee County's CMAR (Garney Construction) in a highly collaborative and successful manner to facilitate construction activities. Served as Lead Mechanical Engineer for the new 16 mgd RO and IX plant. Processes included sand strainers, cartridge filters, RO skids, degasifiers, ion exchange, chemical systems, and finished water pump station.

David L. Tippin WTF High Service Pump Station, City of Tampa, Tampa, FL.

Lead Mechanical Engineer. Lead mechanical engineer for the City of Tampa's \$75M David L. Tippin high-service pump station design-build project. This project includes a 168-mgd high service pump station, a filter backwash pump station, four jet mixing pumps, two chemical jet mixing system, two chlorine contact chambers and a

new clearwell. Facilitated the CFD and physical modeling of the pump station wetwell.

SWWRF Nitrogen Removal, Manatee County, Manatee County, FL.

Lead Mechanical Engineer. Lead Mechanical Engineer for converting an existing 48 mgd wastewater plant from activated sludge to MLE process. Processes and equipment added and modified included hyperbolic anoxic mixers, nitrified recycle pumps, high-speed turbo aeration blowers, jet-aerated sludge holding tanks, and fine-bubble diffusers.

Water Utility Engineer-of-Record Services, North Springs Improvement District (NSID), Coral Springs, FL.

Lead Mechanical Engineer. Jacobs designed and supported the construction, commissioning, and initial operation of a 7.5 mgd Low-Pressure Reverse Osmosis (LPRO) facility for North Springs Improvement District (NSID), replacing the aging lime softening process. The new plant treats Biscayne freshwater wells with high hardness and color and is expandable to 10 mgd for future brackish water blending. The project included advanced pretreatment, three two-stage LPRO trains, chemical systems, odor control, and integration with existing infrastructure. Jacobs provided feasibility studies, permitting, well rehabilitation, deep injection well planning, and ongoing operational support. The solution improved water quality reduced chemical use and sludge disposal issues, enhanced site aesthetics, and lowered operating costs while addressing space constraints and future raw water variability.

MLE Nitrogen Removal and Digester Modification, Manatee County, Manatee County, FL.

Lead Mechanical Engineer. Served as lead mechanical engineer for the conversion of an existing 48 mgd wastewater plant from activated sludge to MLE process. Processes and equipment added and modified included hyperbolic anoxic mixers, nitrified recycle pumps, high-speed turbo aeration blowers, jet-aerated sludge holding tanks, and fine-bubble diffusers. Managed the engineering service during construction.

Southwest WRF Upgrades, City of St. Petersburg, St. Petersburg, FL.

Lead Mechanical Engineer. Led mechanical design for new injection wells and wellhead improvements, piping, a temporary pump station, and connections for the project. Design and construction included three new injection and

monitoring wells, and the following packages. Package 1 upgraded the 16-inch reclaimed water main wellhead infrastructure to 24 inches. Package 2 included a temporary 22 mgd pump station using a diesel-driven, skid-mounted, critically silenced centrifugal pump, and temporary HDPE piping to injection well 4 (IW-4). Package 3 included the off-site temporary connection of IW-6 to a 30-inch reclaimed water pipeline. Package 4 included updating 42-inch piping to IW-5 and a reclaimed water loop.

Greenland WRF, JEA, Jacksonville, FL.

Process Mechanical Reviewer. Provided full suite of services throughout all project phases—from site evaluations to detailed design and onsite inspection services during ongoing construction. Supported JEA engineering and procurement staff during CMAR evaluation and selection and coordinated and collaborated with the CMAR during design to identify areas for value engineering and to develop parallel detailed estimates. Reviewed the drawings and specifications and provided technical guidance to the design engineers.

SE Advanced Water Reclamation Facility (AWRF), Lee County Utilities, Lee County, FL.

Lead Process Mechanical Engineer. In this project, to meet the growing demands of new developments in southeastern Lee County and further protect the region's water resources, Lee County selected Jacobs to design a new advanced water reclamation facility. The new greenfield SE AWRF will provide very high-quality effluent that may be used to recharge natural wetlands near the site. The facility will be designed to treat 6 mgd at startup and be expandable to 10 mgd as needs dictate. Major facilities include headworks (including screening and grit removal), odor control, enhanced process bioreactors and splitter box, secondary clarifiers, and splitter box, return activated sludge and waste activated sludge pumping, deep-bed filtration, disinfection, effluent transfer pumping, reclaim and reject water storage, reclaimed water distribution, deep injection well, and ancillary equipment. The project will be delivered using the construction management at-risk (CMAR) approach. This project is currently under design, meeting all design schedule milestones within the proposed budget.

Zindy Agredo, AIA, ARA, LEED AP BD+C | Architectural and Structural Design Lead



YEARS OF EXPERIENCE

21 Years

EDUCATION AND TRAINING

- » Master of Architecture, Boston Architectural College
- » Bachelor of Design in Architectural Studies, Florida International University

REGISTRATIONS | CERTIFICATIONS

- » Registered Architect, FL (#AR99555)
- » Interior Designer, FL (#ID6752)
- » LEED AP BD+C, U.S. Green Building Council (USGBC) (No. 10407336)

OFFICE LOCATION

Miami, FL

Why Zindy? Zindy is an accomplished and highly organized project manager and licensed architect with experience managing complex projects in the private and public sector. She has overseen large-scale programs with million-dollar budgets and assisted in creating value-added campaigns to help organizations achieve dynamic goals. Zindy is responsible for leading, managing, and overseeing architectural projects on a day-to-day basis from the schematic design/conception phase through to design development, construction drawings, bidding/contract negotiation, construction administration, and close-out phases. She has worked on multiple capital projects, ensuring all client PPMs and division policies were followed during the life of the project by the design consultant and contractor. Zindy has also worked closely with executive leadership to strategize innovation processes and technology initiatives. She oversees project managers on the progress of the operations of individual projects within programs. She has knowledge of sustainability, integrated design and LEED guidelines, architectural building systems, and IBC & Accessibility Codes.

KEY RELEVANT EXPERIENCE

City of Hollywood Capital Projects, City of Hollywood, Hollywood, FL.

Engineering Support Services Manager, Architecture. Under the general direction of the Department of Design and Construction Management Director, Zindy assisted in the planning, directing, analyzing, and coordination of design and construction of capital projects. She was responsible for managing the architectural division staff and budget and oversight of the City Go Bong Program. Zindy worked with the Director and senior management to develop policies and procedures and determined the direction to be taken as related to timing and processes for capital projects, organizational changes, and system priorities. She procured consultant services and prepared requests for proposal (RFPs), requests for qualifications (RFQs), and other procurement documents as needed. Zindy participated in the selection of design consultants and construction managers, including contract negotiations as required.

Seminole Tribe of Florida Program, Seminole Tribe of Florida, Hollywood, FL.

Senior Design Manager. Zindy coordinated with Design Managers and the Client to develop and deliver projects on the Client's capital projects list. She worked with management to develop project plans, budgets, and timelines. Performed resource

allocation, workload assignment, and schedule management to ensure on-time delivery. She supervised the project team daily and provided directions whenever needed. Recommended new technologies and methodologies to enhance quality, productivity, and cost-effectiveness. Made updates to project plans as per changing needs of clients. She identified project challenges and developed appropriate action plans. Tracked project progress on a regular basis and adjusted for timely completion. Assisted in project risk assessment and mitigation activities.

Palm Beach County Program, Palm Beach County, Palm Beach, FL.

Project Manager. Served as Project Manager for Facilities Development and Operations at Palm Beach County. She was responsible for the administration, design, review, inspection, supervision, and coordination of facilities construction projects. Administered contracts; developed the scope of minor facility construction, renovation, and major building system renewal and replacement projects. Coordinated with user agencies to maintain continuity of operations; scheduled and planned work with other County Departments and Divisions; coordinated construction activities with engineers, architects, and contractors to ensure compliance with federal, state, County, and local government requirements. Estimated costs, conducted construction-related procurement, and reviewed technical specifications and permitting. Monitored contract provisions; conducted site observations and closed out projects.

School Board of Broward County Facility Assessments, The School Board of Broward County, Broward County, FL.

Project Assessor. Zindy was responsible for collecting data for facility assessments at schools throughout the district. She provided building inspection services to include educational adequacy elements for capital improvement scope issues. More than 252 schools and facilities were surveyed over a 5-month period. Quantities were also provided for cost

estimating purposes. The information provided in the inspection reports was used to ascertain the school board's 5-year capital improvement program.

Miami-Dade Metropolitan Planning Organization (MPO) Intermodal Terminal Feasibility Study for Downtown Miami, Miami-Dade County, Miami, FL.

Project Designer. Zindy oversaw development of three site alternatives in downtown Miami to include a bus terminal, retail, office, residential, and hotel components. The project was developed as a transit-oriented development adjacent to the Miami-Dade County Government Center with a link to the existing Metro-rail and Metro-mover rail system. She managed a team of architects, coordinated with the client, and provided quality control review for the construction drawings.

New Technology Deployment - Passenger Screening Program, Transportation Security Administration (TSA), Various Locations, FL.

Project Designer. Overseeing the production of construction documents for the implementation of new equipment which includes body imaging equipment, x-ray units and components and providing new design layouts for the existing equipment. Locations include airports throughout the United States. We provided Security Equipment, Integration and Installation Design Support Services as part of the TSA's Program Management Oversight program. Our duties vary according to the technology program and type of transportation facility. Jacobs evaluates, reviews, and recommends for government approval the detailed design and installation plans for integration of security equipment at various sites. Supported review and evaluation of technical & cost proposals & assistance with development of Independent Government Cost Estimates.

As-built Verification, Nassau Community College, Long Island, NY.

Project Manager. Responsible for coordinating a team of architects to conduct facility assessments at the college campus. Update existing drawings to reflect current conditions of all buildings to update the college database for upcoming renovations and new construction. Coordinated a team to verify existing conditions of 36 buildings on college campus.

Collier County Area Transit New Operations and Fleet Maintenance Facility, Collier County Area Transit (CAT), Collier County, FL.

Project Architect. Design of a new Administration and Fleet Maintenance Facility for the County that includes reconfiguration of the site. Zindy spearheaded design development for the new design for the Operations and Fleet Maintenance Facilities, including a new administration building and fleet bays and auxiliary structures, ensuring compliance with client standards and local regulations.

Dave Everson, PE | Structural Design



YEARS OF EXPERIENCE

26 Years

EDUCATION AND TRAINING

» BS, Civil Engineering,
University of Wisconsin

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#80180)

OFFICE LOCATION

Gainesville, FL

Why Dave? Dave is a structural engineer with more than 26 years of experience who is skilled in all phases of engineering operations. His expertise includes wastewater and waste treatment plants, design-build projects in the U.S. and internationally, and working for both private and public projects. Specifically, Dave has five years of experience in the design of Metal Building Systems. These Pre-Engineered Metal Buildings (PEMB) structures are commonly used in water and wastewater plant design. His knowledge of industry standards and capabilities is an asset to this project. His project experience involves reinforced concrete tanks, foundations, structural steel, reinforced concrete and masonry buildings, pile foundations and retaining walls.

KEY RELEVANT EXPERIENCE

Norwood Water Treatment Plan, City of North Miami Beach, North Miami Beach, FL.

Lead Structural Engineer. Project involved multiple phases of design. First phase involved emergency safety repairs to the plant. The second phase addressed updates and expansion to the existing RO/NF process. New structures included a chemical building, high service pump station, maintenance and lab building, backwash reclaim tanks, lime softening clarifiers, and filter structures.

Melbourne Water Treatment Plant, City of Melbourne, Melbourne, FL.

Lead Structural Engineer. Project involved confined space inspection of a Clearwell structure that had extensive corrosion due to aggressive water quality downstream of RO treatment process. Observed structural deficiencies were identified by type, severity and quantity. Owner provided report also identified repair options for short term (5-7 years) and long-term repairs (20 years), depending on Owner's decisions on future plant needs.

J.A. Buckley WTP Upgrades, City of Melbourne, Melbourne, FL.

Lead Structural Engineer. The project involved confined space inspection of a clearwell structure that had extensive corrosion due to aggressive water quality downstream of the RO treatment process. David observed structural deficiencies and identified them by type, severity, and quantity. He also provided a report to the owner that identified repair options for short-term (5-7 years) and long-term (20 years) repairs, depending on the owner's decisions on future plant needs.

RO WTP & Wellfield Phase II Expansion and Lime Softening WTP Improvements, Bonita Springs Utilities, Bonita Springs, FL.

Lead Structural Engineer. Project included new foundation design for lime system and site wells. Designed new metal building to be installed over an existing concrete filter structure.

David L. Tippin WTF Expansion and Improvements, City of Tampa, Tampa, FL.

Structural Engineer. Jacobs was design-builder for the DLTWTF Expansion Project, which increased capacity to 100 mgd. The City of Tampa again selected Jacobs as its trusted design builder in 2019 to deliver one of its most risky and fast-paced projects—the High Service Pump Station (HSPS) and Miscellaneous Improvements project at the DLTWTF. Served as Engineer of Record for work related to repair and rehabilitation of the existing Clearwell structures.

Water and Wastewater Capital Program and System Resilience Program, JEA, Jacksonville, FL.

Structural Engineer. As part of the program, David served as Structural Engineer of Record on a new prestressed concrete 90-foot-diameter ground storage tank at Woodmere WTP.

BSU WWRf Concrete Restoration Project, Bonita Springs Utilities, Bonita Springs, FL.

Lead Structural Engineer. Project involved both structural condition assessment and design for implementation of repairs as part of a Design-Build Contract. Inspections included 21 structures throughout the facility and included identification of both safety concerns as well as identification of structural deficiencies and recommendations to increase structural durability. Structures inspected included (4) clarifiers, (4) oxidation ditches, headworks structure, (2) chlorine contact basins, (2) sand filter facilities, chemical building and containments, elevated walkways, and other miscellaneous structures. Developed inspection report identified deficient items with a ranked condition severity and expected remaining life of 5+, 10+, and 20+ years. Report included to Owner included a repair cost estimate broken down by repair type.

Phase two of project included design of repairs including drawings and specifications. The team worked closely with the Owner to design repairs based on the projected plant life and cost estimate values that met construction budget limits.

Oak Ridge WTP, City of Oak Ridge, Oak Ridge, FL.

Lead Structural Engineer. Project included a new 16 mgd WTP at the existing raw water intake site. New water treatment building consisted of a partially buried foundation and second floor office and mezzanine area constructed of cast in place concrete utilizing pan formed concrete joists. The building superstructure consisted of a steel framed building including an exterior tank farm under canopy. Other structures included dual cell concrete flocculation basins, 1 MG Clearwell tank, and residual tanks.

Consulting Services for Water Supply, Treatment, Transmission, and Distribution System, City of Cocoa, Cocoa, FL.

Structural Engineer. Since 2008, Jacobs has served the City under a continuing services contract on more than 25 projects and has served as the City's Program Manager since 2011. Projects totaling more than \$60M have included operational integration of the aquifer storage and recovery (ASR) well system, water conservation, water treatment, water quality, transmission and distribution system improvements, and associated measures to meet Cocoa's water demands. Provided engineering support and Quality reviews of several Cocoa projects.

Rich Morrison, PE | Site Civil Design Lead



YEARS OF EXPERIENCE

23 Years

EDUCATION AND TRAINING

» BS, Civil Engineering,
University of Florida

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#67713);
NC, SC, GA, TX, PR

OFFICE LOCATION

Gainesville, FL

Why Rich? Rich has over 23 years of experience designing various sites including commercial, residential, solid waste, and water and wastewater treatment plants. He also has extensive experience in the design of water distribution systems and wastewater collection and transmission systems. Rich is fluent in every component of site/civil design including site layout, grading, stormwater conveyance and management, and water and wastewater utility design. In addition, Rich has managed multiple projects and possesses a profound understanding of implementing environmental components throughout each project phase.

KEY RELEVANT EXPERIENCE

Norwood Water Treatment Plant Phase II Expansion and Upgrades, City of North Miami Beach, North Miami Beach, FL.

Lead Civil Engineer. In this project, Jacobs served as the prime technical and delivery partner for NMB Water, leading the development and implementation of the Water Master Plan and executing the Phase 1 and Phase 2 improvements at the Norwood WTP. Their role included conducting a comprehensive condition assessment and strategic site layout, expanding NF/RO capacity by adding membranes and a new NF skid, upgrading ancillary systems, and enhancing regulatory compliance tracking for the Ground Water Rule and four-log virus treatment. Jacobs performed extensive bench and full-scale testing to optimize color removal and reduce DBP formation, evaluating a wide range of treatment alternatives. Through value engineering during Phase 1, Jacobs identified efficiencies that allowed for additional membrane expansion and redirected savings to construct new filters. In Phase 2, Jacobs designed and implemented major lime-softening plant upgrades—including new wells, clarifier, filters, clearwell, backwash systems, disinfection contact piping, pump station improvements, and supporting facilities—while continuing to advance Master Plan projects focused on capacity, redundancy, and system reliability. Rich was the lead civil engineer for an expansion of a combination lime softening and reverse osmosis WTP and related infrastructure. The civil design included site layout and grading, yard piping, stormwater conveyance, and runoff calculations.

Wetland Groundwater Recharge Park, City of Ocala, Ocala, FL.

Lead Civil Engineer. This project included a feasibility study, design, and construction of a 32-acre infiltration wetland system by using reclaimed water and stormwater to recharge the aquifer and offset consumptive use impacts; reduce nutrients to prevent algal growth in Silver Springs; recover and enhance flows to Silver Springs; and create a public park with walking paths, boardwalks, and interpretive educational signage. Rich was the Lead Civil Engineer for the design of a reclaimed water treatment and infiltration wetland system (3 cells, 31 acres total). Design includes site layout, grading, and yard piping. Also performed the construction phase management services for Jacobs coordinating submittal and RFI reviews, as well as attending construction meetings and performing site visits.

Groundwater Recharge Wetland Project, Gainesville Regional Utilities, Gainesville, FL.

Design Support Manager / Civil / Project Engineer. GRU, in partnership with the Suwannee River Water Management District and the Florida Department of Environmental Protection, is constructing a groundwater recharge wetland. The project will help replenish, or recharge, the Floridan Aquifer System, which will benefit the Santa Fe River, its springs, and community. Rich was responsible for providing comprehensive design management and civil engineering support throughout the planning and development of the groundwater recharge wetland system. His role included coordinating multidisciplinary design efforts, reviewing and refining engineering plans, ensuring compliance with GRU, SRWMD, and FDEP requirements, and supporting the integration of hydraulic, environmental, and civil elements into a cohesive project design. He led technical evaluations, provided quality assurance for design submittals, facilitated communication between design teams and regulatory agencies, and assisted in resolving design challenges related to grading, conveyance structures, wetland hydrology, and groundwater recharge performance. Rich also supported the development of construction documents, permitting packages, and design modifications to ensure the project met its environmental and operational objectives.

Greenland WRF, JEA, Jacksonville, FL.

Lead Civil Engineer. The Greenland WRF is a new 4 mgd (annual average day) treatment facility being constructed on a greenfield site in southeast Jacksonville. The WRF consists of preliminary, secondary and tertiary liquid treatment facilities to consistently meet high level disinfection standards for public access reuse and AWT standards for intermittent surface water discharges. Solids treatment facilities include aerobic digestion, aerated sludge storage and centrifuge dewatering with sufficient flexibility for operations to provide the level of stabilization needed. Greenland WRF's location will also allow JEA to use the effluent storage and pumping facilities onsite to improve reclaimed water distribution to the southern portion of its service area. Rich provided stormwater design and assisted the Environmental Resource Permitting effort.

Northwest Regional WTP, JEA, Jacksonville, FL.

Lead Civil Engineer. Rich served as the Lead Civil Engineer for the design and permitting of this new water treatment plant. The design includes site layout grading and stormwater management. Rich also provided stormwater design and coordinated the Environmental Resource Permitting effort.

Woodmere WTP Well No. 3 and Storage Tank Replacement, JEA, Jacksonville, FL.

Lead Civil Engineer. Rich was the Lead Civil Engineer for the design and permitting of a well and storage tank addition and associated site work. In this role, he also provided stormwater design and coordinating the Environmental Resource Permitting effort.

Blacks Ford WRF Phase 4 Expansion, JEA, Jacksonville, FL.

Lead Civil Engineer. Rich was the Lead Civil and Yard Piping Engineer for a major expansion of the water reclamation facility and related infrastructure. He also provided stormwater design and coordinated the Environmental Resource Permitting effort.

SWWRF Upgrades (CMAR) Design Services, City of St. Petersburg, St. Petersburg, FL.

Lead Civil Engineer. The work included construction documents, new injection wells and wellhead improvements, piping, temporary pump station, and connections. Design and construction included three (3) new injections and monitoring wells, and the following CAR packages. Package (1) upgraded 16-inch reclaimed water main wellhead infrastructure to 24-inch; package (2) temporary 22 mgd pump station using diesel driven skid mounted critically silenced centrifugal pump, and temporary HDPE piping to IW-4; package (3) offsite IW-6 temporary connection to 30-inch reclaimed water pipeline; package (4) update of 42-inch piping to IW-5 and reclaimed water loop.

Dyal WTP Surface Water Plant Clearwell Addition and Reject Pond Rehabilitation, City of Cocoa, Cocoa, FL.

Lead Civil Engineer. Rich was the Lead Civil Engineer for design of improvements to a water treatment plant. Designed and conducted permitting of improvements for a new clearwell and associated pump station. Design included construction documents, site layout, grading, and stormwater drainage basin hydrologic and hydraulic modeling analysis for stormwater management system.

Chemical Conversion and Reliability Improvements Project, City of Cocoa, Cocoa, FL.

Lead Civil Engineer. Rich was the Lead Civil Engineer for design of improvements to a water treatment plant. Designed and conducted permitting of improvements for several new buildings, a new entrance road, and guard house. Design included construction documents, site layout, grading, and stormwater management design and permitting.

CIP Program for Water Treatment Plants, Seminole Tribe of Florida, Everglades Nations Park, FL.

Civil Engineer. Provided expert water treatment technology services, as Owner's representative, for improvements to the Immokalee, Brighton, and Big Cypress water treatment plants (WTP). All plants use reverse osmosis (RO) membrane and degasification and scrubber technologies to treat highly mineralized and hydrogen sulfide containing groundwater while Big Cypress source water also contains elevated levels of iron and organics. Big Cypress Reservation is located with the Everglades National Park. Rich is developing the civil designs for these projects, including site layouts.

Kathryn Benson, PE, CMRP | Condition Assessment Lead



YEARS OF EXPERIENCE

32 Years

EDUCATION AND TRAINING

- » MS, Civil Engineering (Environmental & Water Resources Engineering specialization), University of Texas at Austin
- » BS, Civil and Environmental Engineering, University of South Carolina
- » BS, Marine Science, University of South Carolina

REGISTRATIONS | CERTIFICATIONS

- » Professional Engineer: NC
- » Certified Maintenance and Reliability Professional (CMRP)

OFFICE LOCATION

Cary, NC

Why Kathryn? Kathryn is a Condition Assessment Lead with over 32 years of experience in asset management, reliability-centered maintenance, and condition assessment for water and wastewater utilities. She holds an MS in Civil Engineering (Environmental & Water Resources) from the University of Texas at Austin and dual BS degrees in Civil & Environmental Engineering and Marine Science from the University of South Carolina. Kathryn specializes in risk-based asset management, failure mode analysis, and capital planning, helping utilities optimize performance and extend asset life. Her expertise spans strategic planning, CMMS implementation, and development of renewal and replacement models for complex treatment facilities nationwide.

KEY RELEVANT EXPERIENCE

Condition Assessment of Water and Wastewater Facilities, City of Hollywood, Hollywood, FL.

Project Manager. Developed condition assessment protocols for all vertical treatment plant assets to improve asset reliability, Performed asset prioritization for over 10,000 assets using risk-based methodology. Consolidation of asset list, refinement to asset hierarchy, and development of renewal and replacement projects for pump stations, water treatment and wastewater treatment.

Risk and Reliability Assessment of Water and Wastewater Facilities, Orange Water and Sewer Authority (OWASA), Carrboro, NC.

Project Manager. Building on the established condition assessment program a risk evaluation following ISO 31000 to determine the priority of risk management activities to be undertaken. Developed Failure Mode Effects Analysis on 25 high risk priority systems and identified over 2,000 failure modes. Completed Reliability Block Diagrams to identify single points of failure. Examined redundancy, human factors, and interfaces. Risk Treatment activities include re-designs, different O&M protocols, modified SOPs, improved communication, additional training while considering benefit-cost and to what extent can or should all risk be treated.

Comprehensive Asset Management Program and Condition Assessment, Cape Fear Public Utility Authority (CFPUA), Wilmington, NC.

Project Manager. This program began with the analysis of merger implications of New Hanover County with City of Wilmington to form the Cape Fear Public Utility. Project consisted of the assessment, business plan development, and implementation

of asset management for a newly merged water & wastewater utility. The program included a full range of asset management elements, including but not limited to: strategic plan development, needs assessment, business process mapping, selection and implementation of new CMMS, financial models, CIP prioritization, risk assessments, service level assessments, implementation of new maintenance strategies (Reliability Centered Maintenance), condition assessments, review of billing issues, budget reviews, and organizational structures. Development of Business Case Evaluation process, CIP development through Integrated Master Plan and renewal and replacement model projects, CIP prioritization process developed using performance scales.

Strategic Plan and Comprehensive Asset Management Program, Tampa Bay Water, Tampa, FL.

Program Manager. Program consisted of assessment, development, and implementation of asset management for wholesale water utility. The condition assessment program was developed to inform Renewal and replacement modeling. Development of a strategic plan with cascading performance metrics tied to the organization's objectives -including condition assessment program effectiveness. This led to a dashboard to maintain the line-of-sight to enable the frontline Program included full range of asset management elements, including: business process mapping, Preventative Maintenance program development through Failure Modes and Effects Analysis, selection and implementation of new CMMS, level of service assessments, reliability analysis, performance metrics development and financial modeling.

Capital Improvement & Grants, Pinellas County Utilities Program, Pinellas County, FL.

Program Task Manager. The Program entails being responsible for day-to-day management of individual projects which compromise the Capital Program in addition to as-needed task assignments, performance monitoring, and mentoring of staff. Kathryn works with County staff collaboratively to communicate a common plan and enable overall Program schedule and cost flow. Focused on the alignment of capital projects with funding sources. Program-level decision making and accurate root-cause problem identification and corrective actions needed to deliver the Capital Program of high quality, within budget and on schedule are identified within the program.

Condition Assessment, Asset Replacement Model and Capital Prioritization Tool Development, Discovery Clean Water Alliance (DCWA), Vancouver, WA.

Senior Technical Consultant. Developed the asset replacement model for the mechanical and electrical assets managed by DCWA at the Salmon Creek Wastewater Treatment Plant and pump stations. This model utilized integrated data from CMMS, condition assessment to determine remaining useful life, and maintenance practice financial considerations to result in the identification of rehabilitation and renewal investment levels for existing assets. The model is probabilistic and uses the Monte Carlo simulations to provide a statistical range to select financial risk threshold. In addition, a Multi Objective Decision Analysis (MODA) based Capital Prioritization Tool was developed and utilized. The tool uses criteria based on the adopted Core Public Values and Asset Management Policy to prioritize capital investments for the Alliance.

Performance Improvement (Asset Management) Program, Seminole County, Sanford, FL.

Task Lead. This program was initiated at the back-end of a major 7-year capital program in order to streamline business processes and develop proactive engineering, operations, maintenance approaches. Condition assessment program informed the development of an integrated financial plan to include renewal and replacement needs in the Capital Improvement Program. Developed Business Case Evaluation process and required documentation to be included in the evaluation of project prioritization for CIP including the development of performance scales for prioritization using multi-criteria analysis (MCA). Utilized Monte Carlo simulations to determine acceptable level of financial risk.

Condition Assessment, Asset Management and Renewal & Replacement Modeling, North Jersey Drinking Water Supply Commission (NJDWSC), Wanaque, NJ.

Task Lead. Developed an asset management plan for all vertical treatment plant assets to improve asset reliability, CMMS implementation, workflow procedures, and to ensure regulatory compliance. CMMS and Condition Assessment strategy utilized in Renewal and Replacement modeling. Performed asset prioritization for over 7,000 assets using risk-based methodology. Consolidation of asset list and refinement of asset hierarchy led to structure of renewal and replacement modeling and development of Capital Improvement Plan.

Risk-Based Asset Management for Water Plant and Facilities, KC Water Services Department, Kansas City, MO.

Task Lead. Risk analysis of WTP (120 mgd). Evaluated current practices, developed improvement practices, and develop an implementation plan that includes prioritized program that enable KCMO Water Services to meet its long-term goals. Developed asset hierarchy, risk-based asset scoring, FMEA and RBDs. CMMS Improvement Road Map completed. Facility size: 120 mgd.

Anderson Mai, EIT | Permitting



YEARS OF EXPERIENCE

7 Years

EDUCATION AND TRAINING

» BE, Environmental Health Engineering, Florida International University

REGISTRATIONS | CERTIFICATIONS

» EIT

OFFICE LOCATION

Fort Lauderdale, FL

Why Anderson? Anderson is a Water Process Engineer with 5 years of experience in water treatment projects, including pilot testing, commissioning, process evaluation, hydraulic modeling, master planning, and condition assessments. He also brings 2 years of operational experience as a licensed Class "C" water operator at the Norwood WTP and 2 years as a permitting engineer for the City of Bonita Springs, where he specialized in environmental compliance, stormwater management, and development permitting. Anderson's expertise spans multi-disciplinary coordination, regulatory approvals, and best management practices during construction, making him a versatile contributor to complex water infrastructure projects.

KEY RELEVANT EXPERIENCE

Permitting Department Community Development, City of Bonita Springs, Bonita Springs, FL.

Permitting Engineer for Community Development. Coordinated with engineers, inspectors, surveyors, and architects to determine if engineering plans submitted in lieu of commercial or residential permit applications satisfied the code requirements set forth by the City of Bonita Springs and the Florida Building Code. Processed the reductions, continuations, full release, and creation of bonds and sureties for Development Orders and Limited Development Orders. Assessed engineering plans for pedestrian and vehicular traffic safety, focusing on ADA compliance within and around the facility. Additionally, development plans were reviewed for effective erosion control management with BMP devices and stormwater conveyance structures. Reviewed photometric lighting plans to curtail the degradation of the nighttime visual environment by enforcing luminaire and mount standards for dark skies compliance. Evaluated pipe material and integrity for use in right of way and local streets during and after construction. Developed and coordinated amendments to the Bonita Springs Land Development Code such as for dock and shoreline structures, outdoor lighting, and zoning ordinances.

Deerfield Beach Pilot Verification of Treatment of Preferred Alternatives, City of Deerfield Beach, Deerfield Beach, FL.

Field Engineer. Performed pilot scale testing including pilot startup and fabrication, field testing, operational assessments, logging and interpretation of data. Anderson was responsible for communicating with and training city staff in pilot equipment maintenance, including performing equipment repair and rehabilitation. Monitored and evaluated the pilot equipment selection during transitions from pretreatment to anionic ion exchange and finally PFAS-removing ion exchange testing phases. Coordinated efforts with a technical team to develop a report that conveyed the findings of the pilot to the client. Demonstrated multi-role capability by assisting the city in evaluating building permit options for structures at the Deerfield Water Treatment Plant.

Wagner Creek/Seybold Canal Restoration Project, City of Miami, Miami, FL.

Field and Construction Oversight Engineer. Tracked the daily sediment dredging production and produced field reports. Extended permits required for continued dredging operation along the Miami River, as well as procured permits required for embankment stabilization and coordinated with the US Army Corps of Engineers for permit extensions. Reinforced site safety of construction and field staff at the temporary treatment plant, as well as ensured divers were conducting work in a safe manner. Prepared risk assessment reporting and designed for embankment stabilization. Collected post-dredge samples for dioxins/furans, polyaromatic hydrocarbons, metals, mercury, and lead.

Eduardo M. Suarez, PSM | Longitude Surveyors | Surveying



YEARS OF EXPERIENCE

40 Years

EDUCATION AND TRAINING

» AA, Miami Dade College

REGISTRATIONS | CERTIFICATIONS

» Professional Surveyor and Mapper:
FL (# LS6313)

OFFICE LOCATION

Miami, FL

Why Eduardo? Recognized for his exceptional leadership, technical proficiency, and commitment to delivering top-tier surveying services, he has successfully navigated complex projects in diverse sectors, including commercial, residential, transportation and infrastructure developments. Having established a reputation for quality, integrity, and client satisfaction, Eddie has built and nurtured strong professional relationships. His collaborative approach ensures seamless coordination between multidisciplinary teams, driving projects toward successful outcomes. With a keen eye for detail and a passion for precision, he orchestrates the team's efforts with unwavering dedication.

KEY RELEVANT EXPERIENCE

Alexander Orr Water Treatment Plant Laboratory Storm Shelter and Primary Control Center, Miami, FL.

Principal Surveyor. (This project is part of our Continuing Contract Number: 21LSLLC001), Longitude Surveyors provided Subsurface Utility Engineering (SUE) Designation services in accordance with ASCE standards, performing Quality Level "B" investigations using Electromagnetic Locators and Ground Penetrating Radar (GPR) to identify underground utilities within the survey limits. Soil conditions and site constraints were noted as factors affecting GPR accuracy, with utility lines depicted within two feet of their true horizontal positions. Quality Level "A" Soft-Dig services were conducted at ten locations, with data collected on the horizontal position, elevation, size, material, and direction of utilities. All locations were marked in the field and referenced to NAD83/2011 and NGVD29. Sunshine 811 coordination and VVH reports were also provided as part of the final deliverables.

Central District Wastewater Treatment Plant, Miami-Dade County Water and Sewer Department, Key Biscayne, FL.

Principal Surveyor. Longitude Surveyors conducted a comprehensive topographic survey to locate all visible improvements within the project limits, including pavement, utilities, structures, signage, landscaping, and trees. The survey included utility record review, capturing rim, top, and invert elevations of sanitary and drainage structures, and establishing permanent control points in State Plane coordinates (NAD 83/2011) and NGVD 1929. Rights-of-way, easements, and property boundaries were surveyed, monumentation was recovered or re-established, and a Digital Terrain Model (DTM) was created using a 20-foot grid with elevations at key features.

Central District Wastewater Treatment Plant, Miami-Dade County Water and Sewer Department, Key Biscayne, FL.

Principal Surveyor. Longitude Surveyors conducted a comprehensive topographic survey to locate all visible improvements within the project limits, including pavement, utilities, structures, signage, landscaping, and trees. The survey included utility record review, capturing rim, top, and invert elevations of sanitary and drainage structures, and establishing permanent control points in State Plane coordinates (NAD 83/2011) and NGVD 1929. Rights-of-way, easements, and property boundaries were surveyed, monumentation was recovered or re-established, and a Digital Terrain Model (DTM) was created using a 20-foot grid with elevations at key features.

Alexander Orr Water Treatment Plant Miami, Miami-Dade County Water and Sewer Department, Miami, FL.

Principal Surveyor. Longitude Surveyors performed a 3D Laser Scan, Boundary and Topographic Survey, and Quality Level B SUE Designation at the Alexander Orr Water Treatment Plant in Miami, FL. The scope included scanning the interior of the Engine No. 6 housing unit and documenting aboveground improvements, drainage features, utility inverts, and valve elevations. Control was established using MDWASD plant benchmarks, and a title review was completed using the provided commitment. Property corners, perimeters of key features, and Finished Floor Elevations (FFE) were recorded. A Digital Terrain Model (DTM) was generated, and utility lines were shown per WASD CAD standards.

North District Wastewater Treatment Plant - Electrical Distribution Building No. 2, City of North Miami Beach, North Miami Beach, FL.

Principal Surveyor. Longitude Surveyors completed a survey at the North District Wastewater Treatment Plant located at 2575 NE 156th Street, North Miami Beach, FL. The team surveyed and marked four boring hole locations, providing precise Northing, Easting, and elevation data to the client. A detailed sketch was also prepared to accompany the legal

description for the Florida Power & Light (FPL) easement. Final deliverables included accurately marked field locations and a supporting sketch to facilitate future planning and development at the site.

Norwood Water Treatment Plant, North Miami Beach, FL.

Principal Surveyor. Longitude Surveyors provided Topographic Survey and Subsurface Utility Engineering (SUE) services for the Northwood Water Treatment Plant in North Miami Beach. The team performed right-of-way and lot line analysis, collected above-ground improvements, and gathered elevation data on a 50-foot grid. Temporary benchmarks were established using certified references. Longitude also collected drainage and sanitary structure details, and performed Quality Level "A" SUE services at 21 client-specified locations using GPR and electromagnetic detection. Deliverables included utility data, photos, and Vacuum Excavation Reports to support design and planning efforts.

Riviera Beach Water Treatment Plant, City of Riviera Beach, Palm Beach County, FL.

Principal Surveyor. Longitude Surveyors performed a comprehensive topographic and bathymetric survey, documenting rights-of-way, plats, deeds, and ownership lines, as well as identifying easements and restrictions from public records. The survey was geo-referenced to NAD83/11 with elevations tied to NAVD88. Aboveground features, including structures, utilities, and vegetation, were mapped, and elevation data was collected on a 50-foot grid with 1-foot contours. Drainage and sanitary structures were surveyed, and bathymetric cross-sections of adjacent canals were completed at 100-foot intervals. Longitude also provided Quality Level "B" SUE services using GPR and performed Soft-Digs at five locations. Survey control points and easement sketches were established, with ongoing 811 coordination to ensure utility clearance.

Miramar West Water Treatment Plant, City of Miramar, Miramar, FL.

Principal Surveyor. Longitude Surveyors conducted a 3-D laser scan of the interior room containing the reverse osmosis cells, using electronic instruments within the project limits. The scan captured key components such as pipes, pipe connections, filters, pumps, tanks, and other relevant infrastructure. A 3-D drawing of the pipe network was then developed, highlighting connection points for both existing and future reverse osmosis cells. Interior ceiling heights were documented and included in the survey, while decorative features were excluded from the scope. The Finish Floor Elevation (FFE) for the space was also provided. The survey relied on drawings supplied by the client, with all elevations shown as assumed and not referenced to any vertical datum. The survey was confined to the interior room housing the reverse osmosis cells, filters, pumps, tanks, and related infrastructure at the Miramar Water Treatment Plant, located at 4100 Flamingo Road, Miramar, FL 33027.

South District Water Treatment Plant and FPL Clean Water Recovery Center, FPL, Miami, FL.

Principal Surveyor. Longitude Surveyors provided Specific Purpose Survey and Subsurface Utility Engineering (SUE) services along the FPL CWRC Pipeline corridor. The team located existing transmission poles and anchors that could conflict with the proposed pipeline and performed Quality Level "B" and "A" SUE services at fourteen locations using electromagnetic and ground-penetrating radar. Soft-Digs were marked, surveyed, and referenced to NAD 83/2011 and NGVD 29. Longitude also prepared a Vertical Vacuum Hole (VVH) report for each location.

John H. Adler, III, PSM | Longitude Surveyors | Surveying



YEARS OF EXPERIENCE

45 Years

EDUCATION AND TRAINING

» AA, Miami Dade College

REGISTRATIONS | CERTIFICATIONS

» Professional Surveyor and Mapper:
FL (# LS4693)

OFFICE LOCATION

Miami, FL

Why John? John is a highly skilled Surveyor with a specialized focus on Subsurface Utility Engineering (SUE) techniques, offering 45 years of expertise in the field. As a dedicated professional, he has demonstrated a proven track record in leading surveying projects, specializing in the accurate identification, mapping, and assessment of subsurface utilities. With an in-depth understanding of geospatial technologies and industry best practices, John has a keen eye for detail and a meticulous approach to data analysis, ensuring the precise documentation of subsurface utilities. By leveraging his knowledge of SUE standards, he has consistently delivered high-quality, reliable, and safe surveying solutions to a diverse range of clients. As a dedicated Senior Surveyor, he is committed to delivering innovative solutions and contributing significantly to the success of any project he undertakes.

KEY RELEVANT EXPERIENCE

Alexander Orr Water Treatment Plant Laboratory Storm Shelter and Primary Control Center, Miami, FL.

Senior Surveyor. Longitude Surveyors provided Subsurface Utility Engineering (SUE) Designation services in accordance with ASCE standards, performing Quality Level "B" investigations using Electromagnetic Locators and Ground Penetrating Radar (GPR) to identify underground utilities within the survey limits. Soil conditions and site constraints were noted as factors affecting GPR accuracy, with utility lines depicted within two feet of their true horizontal positions. Quality Level "A" Soft-Dig services were conducted at ten locations, with data collected on the horizontal position, elevation, size, material, and direction of utilities. All locations were marked in the field and referenced to NAD83/2011 and NGVD29. Sunshine 811 coordination and VVH reports were also provided as part of the final deliverables.

Miami-Dade County Water and Sewer Department, General Land and Engineering Surveying and Mapping Services, Miami, FL.

Senior Surveyor. The scope of services consists of land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water, and sanitary sewage treatment plants and any other similar surveying services for related projects. Longitude Surveyors' responsibilities include land surveying during the design, construction, and post-construction phases. Longitude Surveyors will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, which includes underground utility locations, Quality Assurance, and Quality Control (QA/QC) for topographic and as-built surveys.

S-5 Gravity Sewer Extension, Miami-Dade Water and Sewer Department, Miami, FL.

Senior Surveyor. Longitude Surveyors performed a Topographic and Route Survey along NW 54th Street and NW 32nd Court. Services included establishing two horizontal and vertical control points and collecting visible above-ground features, as well as evidence of underground utilities such as water valves, hydrants, backflow preventers, drainage structures, sanitary sewer manholes, electric and telecom infrastructure, and landscaping. Topography was collected up to the face of adjacent buildings. Survey stationing was set from south to north and tied to established monumented lines, with baseline and centerline connections to section corners and rights-of-way. The survey was referenced to the State Plane Coordinate System, and alignment was perpetuated with set points every 100 feet using PK nails. Benchmarks and temporary benchmarks were established at 1,000-foot intervals. For Subsurface Utility Engineering (SUE), Longitude used Ground Penetrating Radar (GPR) to locate septic tanks on adjacent properties. All findings were included in the final topographic survey.

20"-24" Water Transmission, Miami-Dade Water and Sewer Department, Florida City, FL.

Senior Surveyor. Longitude Surveyors provided surveying services in support of a utility routing analysis for the proposed 24-inch water main along SW 360th Street, SW 344th Street, and the extension of SW 162nd Avenue north to East Palm Drive. The survey followed Miami-Dade County Water and Sewer Department standards to support construction drawings and the Design Criteria Package prepared by the Engineer. Longitude established horizontal and vertical control at least 100 feet beyond the project limits and set benchmarks approximately every 1,300 feet, outside of construction limits. A project baseline was established along the centerline or offset of the right-of-way or easements, with control points set at baseline changes or 500-foot intervals. A topographic survey with cross-sections at 100-foot stations was performed,

extending 10 feet beyond the right-of-way where possible. The survey included all fixed surface features such as traffic striping, overhead utilities, signage, manholes, catch basins, valves, and other improvements. Utility structure data, including rim elevations, inverts, and pipe details, were collected where available. Survey coverage also extended 100 feet along opposing rights-of-way at turning points of the proposed 16", 20", and 24" waterlines and up to 10 feet into adjacent properties where accessible.

Pump Station 1018, a portion of SW 131 Avenue along SW 280 Street to SW 132 Avenue, Miami-Dade Water and Sewer Department, Miami, FL.

Senior Surveyor. Longitude Surveyors performed a Boundary/Topographic Survey of Pump Station 1018 In addition. LS included information such as rights-of-way lines, subdivision lines, section lines, lot lines, baselines, and easement lines as required by the project. Longitude also performed an Underground Utility Location Survey for up to 4 Soft Digs.

South District Water Treatment Plant and FPL Clean Water Recovery Center, FPL, Miami, FL.

Senior Surveyor. Longitude Surveyors provided Specific Purpose Survey and Subsurface Utility Engineering (SUE) services along the FPL CWRC Pipeline corridor. The team located existing transmission poles and anchors that could conflict with the proposed pipeline and performed Quality Level "B" and "A" SUE services at fourteen locations using electromagnetic and ground-penetrating radar. Soft-Digs were marked, surveyed, and referenced to NAD 83/2011 and NGVD 29. Longitude also prepared a Vertical Vacuum Hole (VVH) report for each location.

Riviera Beach Water Treatment Plant, City of Riviera Beach, Palm Beach County, FL.

Senior Surveyor. Longitude Surveyors performed a comprehensive topographic and bathymetric survey, documenting rights-of-way, plates, deeds, and ownership lines, as well as identifying easements and restrictions from public records. The survey was geo-referenced to NAD83/11 with elevations tied to NAVD88. Aboveground features, including structures, utilities, and vegetation, were mapped, and elevation data was collected on a 50-foot grid with 1-foot contours. Drainage and sanitary structures were surveyed, and bathymetric cross-sections of adjacent canals were completed at 100-foot intervals. Longitude also provided Quality Level "B" SUE services using GPR and performed Soft-Digs at five locations. Survey control points and easement sketches were established, with ongoing 811 coordination to ensure utility clearance.

Andrew Nixon, PE | WIRX | Geotechnical



YEARS OF EXPERIENCE

18 Years

EDUCATION AND TRAINING

» Bachelor of Science in Ocean Engineering, Florida Atlantic University, FL

REGISTRATIONS | CERTIFICATIONS

» Professional Engineer: FL (#71458)
» Qualified Stormwater Management Inspector # 27919
» OSHA 40-hour HAZWOPER

OFFICE LOCATION

Fort Lauderdale, FL

Why Nixon? Nixon has 18 years of experience in environmental, geotechnical, and construction materials testing across diverse projects including buildings, infrastructure, and industrial facilities. He specializes in geotechnical reporting, foundation evaluation, inspections (piles, helical piers, fireproofing), load testing, and ground improvement monitoring. He has led field and laboratory testing programs, supervised engineering teams, and overseen construction quality assurance activities. Additionally, Nixon has extensive experience in environmental assessments, site contamination and tank closure reports in compliance with Florida regulations. He has also served as Project Manager for multiple remediation system installations.

KEY RELEVANT EXPERIENCE

Royal Palm Beach Boulevard N. of Persimmon Boulevard to N. of M Canal Project, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for roadway widening, drainage and traffic signal improvements and the widening of the bridge over the M Canal. Foundation recommendations were provided for 18- and 24-inch Precast Prestressed Concrete (PPC) piles. The computer model FB-Deep was used to evaluate the estimated axial capacities for the 18 and 24-inch PPC piles.

50th St. South Improvements at 50th St. Intersection and Ousley Farms Rd. to 160th Tri. South, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the project, which consisted of resurfacing the roadway with a flexible pavement section. In addition, at the intersection of 50th Street South and Ousley Farms Road it was proposed to fill a portion of the adjacent canal to realign the roadway and smooth the transition through the intersection. SPT borings, laboratory testing and geotechnical recommendations were provided.

Florida Mango Road – S. of Barbados Road to N. Myrica Road, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the widening of Florida Mango Road from Antigua Road to Myrica Road/Circle Drive.

Benoist Farms Road – SR 80 to Belvedere Road, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the widening of Benoist Farms Road from State Road 80 to Belvedere Road.

Water & Sanitary Sewer System Improvements for Utility Analysis Zone 113A (UAZ 113A), Broward County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the design of the replacement of approximately 168,100 Linear Feet (LF) of existing water mains, approximately 122,100 LF of existing sanitary sewer mains, and approximately 23,600 LF of existing force mains.

NE 25th Avenue 24-inch Force Main Replacement, Broward County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the design replacement of approximately 5,500 linear feet of the existing 24-inch Reinforced Concrete Pipe (RCP) along NE 25th Avenue.

1600 N. Australian Avenue Community Center, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the design of a new community center with associated paving and drainage features. SPT borings were performed to depths of 25 feet, auger borings to depths of 5 feet and permeability tests to depths of 10 feet. Laboratory testing including moisture content and fines content tests were completed. Site preparation and foundation design recommendations were provided.

FDOT SR-25/US-27 from the Broward/Palm Beach County Line to MP 12.599, Palm Beach County, Florida
Senior Project Engineer. Provided geotechnical engineering services for roadway improvements, which included milling, resurfacing, shoulder widening, and installation of rumble striping, replacement of guardrail, signing and pavement markings.

Smith Sundy Road over the LWDD L-33 Canal Bridge Replacement, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the replacement of the existing bridge over the L-33 Canal with a new structure that meets current AASHTO and FDOT requirements for traffic safety and Florida legal loads. Foundation recommendations were provided for 14- and 18-inch Precast Prestressed Concrete (PPC) piles. The computer model FB-Deep was used to evaluate the estimated axial capacities for the 14 and 15-inch PPC piles.

City of West Palm Beach North Shore Drive Pedestrian Bridge, Palm Beach County, FL.

Senior Project Engineer. Provided geotechnical engineering services for the design of a pedestrian bridge on the west side of the existing vehicular bridge over the Carver Canal. The pedestrian bridge is clear span bridge (spanning approximately 114 feet). Foundation recommendations were provided for 14- and 18-inch Precast Prestressed Concrete (PPC) piles, and 14- and 18-inch Auger Cast-In-Place (ACIP) piles. The computer model FB-Deep was used to evaluate the estimated axial capacities for the piles.

Clifford Hippolyte, PE, GC | WIRX | Geotechnical



YEARS OF EXPERIENCE

21 Years

EDUCATION AND TRAINING

- » Bachelor of Science in Civil Engineering, Florida Atlantic University, FL

REGISTRATIONS |

CERTIFICATIONS

- » Professional Engineer: FL (#83242)
- » Certified General Contractor – FL (#CGC1527246)

OFFICE LOCATION

Fort Lauderdale, FL

Why Clifford? Clifford is a licensed Professional Engineer and General Contractor. His experience includes small to large scale and high-profile projects. His knowledge extends into different project perspectives including design, cost estimating, construction management, material testing, and general contracting. His combined technical knowledge and hands-on experience brings insight from all aspects of a project including design intent, and construction means and methods.

KEY RELEVANT EXPERIENCE

S-71 Structure Replacement; SFWMD, FL.

Senior Engineer. Project located 2 miles northwest of Lake Okeechobee. Includes the construction of a Boat Lock, and replacement of an existing Pump Station and Spillway with a larger 4-Gated Spillway and a 400 cfs Pump Station. Responsible for constructability review and the construction cost estimate for preliminary design, estimated at \$225M construction cost.

S-193 Lock Gate Replacement; SFWMD, FL.

Senior Engineer. Project located at the north end of Lake Okeechobee. Includes the replacement of 2 lakeside sector gates, new control building, new crane pads, and site civil improvements. Responsible for constructability review, construction schedule development, and the construction cost estimate for final design, estimated at \$54M construction cost.

C-25 Reservoir & STA; SFWMD, FL.

Senior Engineer. Project includes a 647-acre reservoir, 142-acre STA, 900 cfs pump station, 10 control structures, and 4 irrigation pump stations. Additional features include 9 miles of embankment, canals, and access roads. Responsible for site civil design, engineering calculation, preparation of bid documents, cost estimate, and construction schedule. \$300M construction cost.

Cutler Flow Way and S-701 Pump Station; SFWMD, FL.

Senior Engineer. Project includes a 400 cfs pump station, 7,000 ft of concrete lined channel, and 2 control structures. A component of the Biscayne Bay Coastal Wetlands Phase 1, and overall Comprehensive Everglades Restoration Plan. Role as Engineer During Construction, and responsible for developing cost estimate and construction schedule. \$100M construction cost.

Peace River Regional Reservoir (PR3); PRMRWSA, FL.

Senior Engineer. Project improves the capacity of the existing water campus by adding a new 9.3 billion Gallon Reservoir, a 138MGD & 79MGD Pump Station, and associated underground conveyance pipelines. Responsible for developing cost estimate and construction schedule. \$335M construction cost.

S-29 Pump Station; SFWMD, FL.

Senior Engineer. Project includes design of a new 2,000 cfs forward pump station, and improvements to an existing control structure. Part of regional water management infrastructure flood protection level of service. Responsible for site civil design, constructability reviews, cost estimate and construction schedule. \$95M construction cost.

C-43 Reservoir Bid Package 3, and 4; SFWMD, FL.

Senior Engineer. 170,000 acre-feet above ground reservoir. Overall project was separated into 4 bid packages, including one 1,500 cfs pump station, 2 irrigation pump stations, 14 water control structures, 19 miles of embankment, and other features. The largest project undertaken by the SFWMD. Engineer of record for site civil design, design calculations, develop cost estimate, and construction schedule. Additionally serve role as Engineer During Construction. \$524M and \$59M Pump station and Reservoir construction cost, respectively.

STA-1W Refurbishments; SFWMD, FL.

Senior Engineer. Project includes modification to a 6,670-acre stormwater treatment area to improve water quality discharges to the Everglades Protection Area. Construction includes levee construction and removal, canal excavations and

backfill, site grading, earthen cofferdams, and dewatering. Role as Construction Manager representing client, submittal review, payment reconciliation, quality assurance, and commissioning. \$11M construction cost.

EAA A-2 Reservoir Pumping Station S-623; USACE, FL.

Senior Engineer. A 4,600 cfs pump station serving as the main inflow structure to the A-2 Reservoir, part of the Comprehensive Everglades Restoration Plan. Project also includes cast-in-place and precast concrete construction, canal excavation, erosion control, and site grading. Responsible for site civil design and design calculations. \$102M construction cost.

OSDLF Stormwater Pump Station - Phase 2; Miami-Dade County Public Works Department, FL.

Senior Engineer. Project consisted of stormwater management system improvements to replace the existing non-operational pump station to a weir overflow system that uses gravity to convey runoff. Responsible for field observation, and project certification. \$0.2M construction cost.

C-10 Water Management Area Pump Station; SJRWMD; FL.

Senior Engineer. A 300cfs pump station to redirect stormwater currently being discharged into the Indian River Lagoon to a 1,300-acre above ground impound. Project also includes levee construction and canal excavation. Responsible for site civil design and cost estimate. \$3M construction cost.

EAA A-1 Flow Equalization Basin Design; SFWMD; FL.

Senior Engineer. A 15,000-acre shallow detention basin with 60,000 acre-feet of storage, including 21 miles of levee, 15 water control structures, pump upgrades, and other features. 2017 Project of the Year by ASCE Palm Beach County Section and ASCE Florida Section. Responsible for site civil design, design calculations, develop cost estimate, and construction schedule. Additionally serve role as Engineer During Construction. \$60M construction cost.

C-23 Canal, Section C Water Farm Above Ground Impoundment (AGI) Design/Build; SFWMD, FL.

Senior Engineer. A 1,240 acre-feet AGI developed as an emergency response to the blue-green algae blooms plaguing the St. Lucie estuaries to collect stormwater runoff from neighboring agricultural lands to reduce nutrient loading of the water received by the estuaries. Design/Build included an 8-foot-high perimeter levee and a gated outflow water control structure. Responsible for site civil design, structural design, calculations, and field observations. \$2.5M Design/Build cost.

C-139 Annex Phase 1A; SFWMD, FL.

Senior Engineer. Project included the restoration of historic Everglades hydrologic conditions of 2,875 acres of citrus grove. Construction consisted of leveling and cross disking of planting beds, swales and ditches, removal and replacement of corrugated metal pipe culverts, and well abandonment. Performed construction management services, including submittal review, quality assurance, and daily logs.

Bolles Canal Conveyance Improvements Segment 1 and 2; SFWMD FL.

Senior Engineer. Construction and improvements to a 1.2-mile portion of the Bolles East (L16) Canal to increase conveyance. Construction included deepening and widening an existing canal involving drilling and blasting of limestone layer, construction of an earthen berm, earthen cofferdams, access roads, and installation of corrugated metal pipe culverts. Performed construction management services including representing client, submittal review, payment reconciliation, quality assurance, and commissioning. \$7M construction cost.

Sheryl A. Dickey | Dickey Consulting Services | Stakeholder & Community Engagement



YEARS OF EXPERIENCE

40 Years

EDUCATION AND TRAINING

» BS, Social Work, Ohio State University

REGISTRATIONS |

CERTIFICATIONS

» Charrette Planner and Public Meeting Facilitator, National Charrette Institute

OFFICE LOCATION

Fort Lauderdale, FL

Why Sheryl? Sheryl is Founder & President/CEO of Dickey Consulting Services, Inc. (DCS) is a community and economic development professional with more than 40 years' experience. Dickey founded DCS in January 1995 and has enjoyed 30 years of supporting communities. The firm is headquartered in the Midtown Commerce Center, a Silver LEED certified building near downtown Fort Lauderdale. Dickey is the developer and owner of the building. Dickey has extensive work experience with infrastructure improvement projects. She also has long-standing relationships with numerous municipalities and other governmental agencies in the tri-county area.

KEY RELEVANT EXPERIENCE

Improvements to Palm Avenue between Griffin Road and Stirling Road (Cooper City)

Project Manager. Broward County Highway Construction & Engineering Division implemented the project to alleviate traffic congestion on Palm Avenue by increasing capacity from two lanes to four lanes. Infrastructure improvements included construction of a concrete barrier wall, ADA and safety upgrades, relocation of a utility pole, replacement of a traffic signal, relocation of certain trees, and installation of landscape along the roadway and medians. DCS provided Public Involvement services that included data collection; coordinate and attend briefings and presentations to elected officials, municipal councils/commissions, and appointed officials; make presentations to homeowners' associations, businesses, and residents in the area; attend Progress Meetings; prepare for and conduct Public Information Meetings and prepare public involvement reports. Dickey served as Project Manager.

Broward County Water and Wastewater Services Utility Analysis Zones

Principal/Project Director. Broward County Water and Wastewater Services began local utility improvement projects called Utility Analysis Zones (UAZs) in mid-2009. The UAZ Projects focus on replacement of sanitary sewer systems, installation of storm drains, restoration of roadways and sidewalks, landscaping, and other

infrastructure. DCS provides public involvement and community outreach services to property owners, residents, businesses, and other key stakeholders. DCS developed and maintains a database tracking system for community concerns and project team responses, prepares and distributes informational material, attends meetings, and provides coordination assistance during construction. Dickey serves as Principal/Project Director.

City of Fort Lauderdale Advanced Metering Infrastructure Consultant Services

Project Director. The City of Fort Lauderdale services approximately 186,000 residents through roughly 65,000 in-service water meters. The City is planning to deploy a smart water meter solution using Advanced Metering Infrastructure (AMI) system technology to provide its customers with reliable and affordable water service. AMI technology is considered an enabling technology that promotes continued value to customers. DCS' role is to communicate the AMI deployment effort to Fort Lauderdale stakeholder groups, conduct market research to inform messaging strategy, define key stakeholder messaging, assist with development of content for message communication, and direct customers to the customer portal. Dickey serves as Project Director.

City of Fort Lauderdale Sewer Design & Implementation, Inflow & Infiltration Projects

Project Director. The City of Fort Lauderdale aimed to reduce inflow and infiltration of stormwater and groundwater into the City's wastewater system. The measures were to primarily reduce risks and increase capacity. The efforts included the Downtown Basin, Dorsey Riverbend Basin, Victoria Park Basin, Flagler Village Basin, Rio Vista Basin, and Central Beach Basin. The task was to conduct smoke testing in these areas. Findings of the inspections allowed the City to identify repairs needed to maintain the structural condition of the gravity sewer piping as well as the reliability and cost-effectiveness of wastewater service provided to residents. DCS provided public outreach services. Dickey served as Project Director.

City of Fort Lauderdale NE/NW 6th Street (Sistrunk Boulevard) Infrastructure Improvement Project

Principal. The City of Fort Lauderdale initiated the capital improvement project to upgrade infrastructure, stimulate redevelopment and economic growth, and revitalize the Sistrunk Boulevard Corridor from US1/Federal Highway to NW 24th Avenue with the support of local, state, and federal funding at a cost of approximately \$15M. Infrastructure

improvements included water and sanitary sewer installation, roadway modifications, and underground utilities. DCS developed and implemented a Public Involvement Program; provided development/redevelopment planning services for businesses along and surrounding the corridor; and coordinated community visioning workshops, informational meetings, and public hearings. Dickey served as Principal.

City of Fort Lauderdale Water & Wastewater Capital Improvements Program (WaterWorks2011)

Public Outreach Director. WaterWorks 2011 was a \$768 Million Capital Improvement Program designed to provide modernization of the City of Fort Lauderdale water and wastewater infrastructure over a 20-year period. The Program included water main replacement, wastewater collection and treatment, sanitary sewer installation, pump stations rehabilitation, and utilities upgrades. DCS provided professional project management and public outreach services. Dickey served as Public Outreach Director.

Historic Miramar Infrastructure Improvements, Phase IV

Principal. The City of Miramar Commission initiated the project to improve storm drainage along local roadways and to help minimize flooding, improve public safety, and improve community aesthetics. The project included exfiltration trench installation, storm sewer piping, storm structures, water main replacement, swale reconstruction and regrading, driveway apron replacement, sidewalk replacement, pavement milling and overlay, pervious pavement installation, select roadway resurfacing, pavement marking, irrigation system repair, and sod restoration. Dickey served as Principal.

Technical Proposal

Tab 3 Table of Organization

Qualifications of the Prime Firm

Firm

As a **Fort Lauderdale firm** backed by over 1,690 professionals who live and work throughout the state of Florida, **Jacobs brings proven performance, deep system knowledge, and a strong local commitment.** We are ready and available to continue to serve the City of Cooper City and its residents, as we have for the last 40 years. **Our familiarity with the City's infrastructure eliminates ramp-up time, ensuring efficient, on-time, and on-budget delivery.** With local partners and aligned expertise, we're ready to implement projects immediately.

Challenging Today. Reinventing Tomorrow:

Jacobs is one of the world's largest providers of professional engineering and technical services. Founded in 1947 by Dr. Joseph J. Jacobs, we are a global engineering and construction company providing the full spectrum of professional and field services for public and private clients across all key markets. Jacobs draws on a global talent force of more than 43,000 employees located in over 300 offices worldwide to deliver innovative, practical, sustainable and resilient solutions. We've provided multidiscipline engineering services for Florida clients — civil, structural, mechanical, electrical, SCADA, transportation, buildings, stormwater, wastewater, environmental, solid waste, marine and coastal, and more.

Firm's legal name and company type: Jacobs Engineering Group Inc. **Corporation**, registered as a legal entity in Florida.

FEIN No. 95-4081636

Local Jacobs address:

550 W. Cypress Creek Road, Suite 400, Fort Lauderdale, FL 33309

Phone: 954.351.9256

Website: www.jacobs.com

Main Points of Contact:

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Project Manager

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Raul Alfaro, PE, ENV SP

Deputy PM/CSL

786.709.1119

raul.alfaro@jacobs.com

2025 ENR RANKINGS

Engineering News-Record has ranked



Nº 2

Top 500
Design Firms

Nº 1

Top 100 Pure
Designers

Nº 1

Data Centers

Nº 1

General Building - Government
Offices and Health Care

Nº 2

Program
Management

Nº 1

Wastewater
Treatment Plants

Nº 2

Water Treatment,
Desalination Plants

Nº 2

Water Transmission
Lines and Aqueducts

Nº 1

Sanitary and
Storm Sewers

Nº 1

Sewer &
Waste

Nº 3

Water Supply

Nº 2

Transportation

Nº 1

Airports

Nº 3

Highways

Nº 2

Marine and
Port Facilities

Nº 2

Mass Transit and Rail

Nº 2

Wind Power

Nº 2

Solar Power

Nº 5

Power Transmission and Distribution

\$7B+
CLIENT APPROVED
SAVINGS

\$12.11B
ANNUAL REVENUE

43,000
GLOBAL TALENT
FORCE

5 ★ ★ ★ ★ ★
STAR LEADER RATING
FOR CLIMATE & ESG IMPACT
Environmental Analyst, 2023-2024

60+ YEARS SERVING
CLIENTS IN FLORIDA



Providing Water and Wastewater Utility Work in Florida Over 60 Years

For over 60 years, Jacobs has provided water utilities in Florida with a similar scope of services as the City of Cooper City Professional Engineering Services for Water and Wastewater Plant Electrical Improvements. Simply put, we have ample familiarity and experience with the full spectrum of services to deliver successful engineering services for water and wastewater plant electrical improvements.

Jacobs has been providing professional engineering services to the City of Cooper City since 1986. We have performed a water system and treatment plant process study to evaluate the condition of the existing water processes and to determine if new treatment facilities could accommodate new growth and anticipated regulations from the Safe Drinking Water Act. The study projected water demands and evaluated several different advanced treatment processes for the City's West WTP, evaluating the existing facilities to determine their expected lifespan. In the study, we recommended membrane softening for the additional capacity required by the City to meet new growth, as well as various improvements to optimize operations.

Services we have provided for the City over the years include master planning; civil, process, geotechnical, electrical, I&C, and structural engineering; environmental/ permitting; hydraulic modeling; stormwater modeling; hydrogeological; cost estimating; financial assistance; grant writing support; and construction management and administration.

Jacobs has continuously provided annual SCADA support services for the City since 2014. We were responsible for automating City's control system for George A. Haughney WTP. The design involved 12 Programmable Logic Controller (PLC) / Remote Input-Output (RIO) control cabinets and 5 Human-Machine Interface (HMI). We established standards for process automation and programming. The SCADA design architecture used an Allen Bradley Control Logix PLC control system, along with a GE iFIX HMI system. Object-based programming was employed and integrated with both the PLC and HMI systems.

Our team made enhancements to 12 control panels, 2 PLCs, 10 RIO racks, and 5 HMIs. These improvements included installation of new PLCs, surge suppression, grounding, updated communication modules, UPS, fiber optic converters, and comprehensive wiring documentation. We also upgraded the SCADA server room by adding two new redundant SCADA servers, server virtualization, a network rack, UPS power, fiber optic media converters, thin client architecture design, and 5 HMI monitors. *We offer continuity, institutional knowledge, a history of strong delivery, and a breadth of firm resources.*



Jacobs 40-year legacy with Cooper City

Jacobs has been providing engineering services to the City of Cooper City since 1986. We have successfully provided a variety of engineering and construction services, including the original nanofiltration (NF) WTP. The Jacobs and HEE team previously designed the 23 kV breaker and switchgear modifications at the George A. Haughney WTP.

Electrical, SCADA, and Instrumentation & Controls (I&C) Experience

Jacobs is a global leader in Supervisory Control and Data Acquisition (SCADA) Automation and Industrial Control Systems. **Our multidisciplinary team of 406 electrical engineers, 356 SCADA experts, 117 ICS engineers, and 32 SCADA/ICS programmers** are ready to assist the City. Our expertise includes Programmable Logic Controllers (PLC), radio systems, wireless technology, telemetry systems, SCADA networks, and cybersecurity expertise.

Exhibit 3-1. I&C and SCADA Experience

"Jacobs was able to improve the automation and reduce the cost of maintenance and energy and chemical use... we couldn't do it without working together to make it possible."

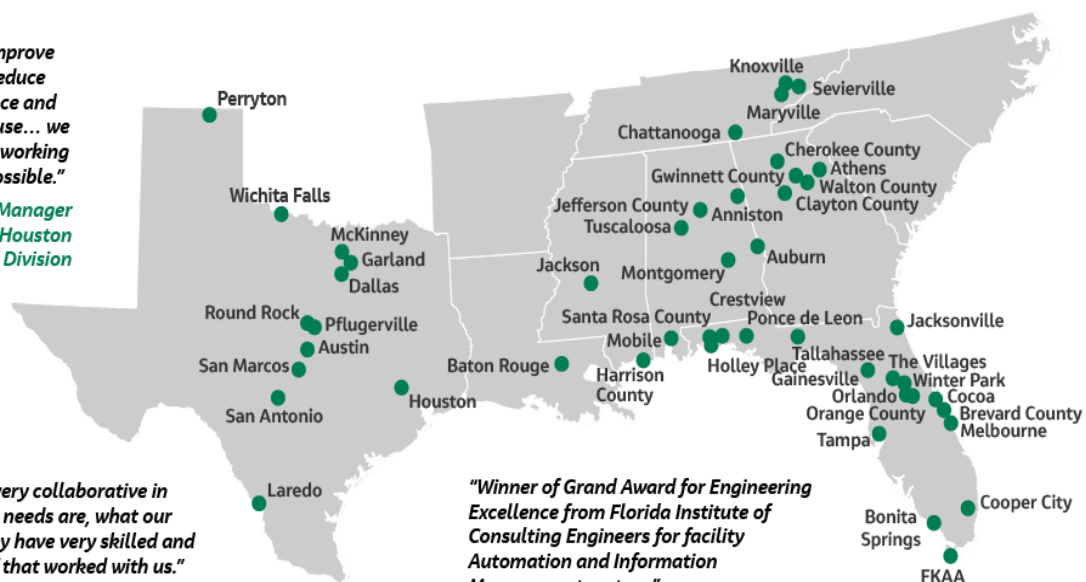
SCADA Engineering Manager
City of Houston
Wastewater Division

"They have been very collaborative in terms of what our needs are, what our systems are... they have very skilled and professional staff that worked with us."

SCADA Support Manager
City of Austin Water Utility

"Winner of Grand Award for Engineering Excellence from Florida Institute of Consulting Engineers for facility Automation and Information Management system."

Orlando Utilities Commission



Relevant Florida Projects

The following table highlights similar projects that demonstrate our ability to deliver Water and Wastewater Plant Electrical Improvements. These projects reflect our experience with utilities across Florida and collaboration with member governments. Detailed project descriptions along with references are provided in **Tab 6 Experience & Qualification of Firm**.

Location and Client Contact	Reference Project
 Fort Lauderdale, FL Client Contact: Miguel Arroyo, Water & Wastewater Treatment Manager, 949 NW 38th St. Fort Lauderdale, FL, 954.828.7806, marroyo@fortlauderdale.gov	Motor Control Centers (MCC) Replacement at GTL WWTP Jacobs completed the design for replacing multiple motor control centers (MCCs) and substations at the George T. Lohmeyer (GTL) Wastewater Treatment Plant. The project included MCCs 3, 4, 4A, 5, and 6, associated substations, and all related power, signal, and control wiring. We also delivered an updated Power System Study covering all switchgear, substations, MCCs, and panelboards installed or modified, ensuring improved reliability and compliance for one of the City's most critical facilities. Find the full Project Description in Tab 6, page 6-2
 Melbourne, FL Client Contact: Jennifer Spagnoli, Public Works and Utilities Director, 2885 Harper Road, Melbourne, FL, 321.608.5000, jennifer.spagnoli@mlbfl.org	SCADA and Electrical Master Plan Retrofit Designs Jacobs completed \$4.5 Million SCADA improvements, which included replacement of the PLC control system and HMI computer system, development of control system hardware and software standards, development of advanced automation control narratives, detailed wiring design, facility automation SCADA programming, and turn-key design-build services. Find the full Project Description in Tab 6, page 6-4
 North Miami Beach, FL Client Contact: Pedro Melo, Assistant Director of O&M, 19150 NW 8th Ave, Miami Gardens, 305.948.2967 (Ext. 32002), pedro.melo@citynmb.com	NF and RO WTP Expansion and Electrical Improvements The City of North Miami Beach Water (NMB Water) owns and operates the Norwood-Oeffler Water Treatment Plant (WTP). Jacobs designed and constructed 9 MGD of NF/RO capacity, which included new membrane skids and electrical upgrades such as new VFDs, and system upgrades to improve energy efficiency and reduce costs. Find the full Project Description in Tab 6, page 6-7
 Boynton Beach, FL Client Contact: Poonam Kalkat, Utilities Director, 124 E Woolbright Rd., Boynton Beach, FL, 561.742.6403, kalkatp@bbfl.us	Switchgear and Generator Replacement at the East WTP Jacobs was the design criteria engineer for the East WTP improvements which included installation of two (2) new permanent generators; one Tier 4, 625-kW unit and one Tier 2, 1,250-kW unit. The existing switchgear was modified to allow manual on/off/auto control at the panel. The work also included SCADA integration between GPG controller and power management application including integration of generator monitoring and control functions in existing VT SCADA. The work also included the development of work plans and services during construction for remediation and disposal of polychlorinated biphenyls (PCBs) that contaminated the soil. Find the full Project Description in Tab 6, page 6-10

Relevant Electrical Experience Matrix

The following table highlights similar projects that demonstrate our ability to deliver Water and Wastewater Plant Electrical Improvements. These projects reflect our experience with utilities across Florida and collaboration with member governments. Detailed project descriptions along with references are provided in Tab 6.

Exhibit 3-3. Relevant Electrical Experience Matrix

Relevant Florida Client Project Experience Matrix	Electrical Distribution System Assessment	Power System Coordination Studies	Short-Circuit Analysis	Arc-Flash Analysis	Switchgear Design / Upgrades	Motor Control Centers (MCC) Design/Upgrades	Transformer Design / Replacement	Generator Systems Design / Replacement	Automatic Transfer Switches (ATS)	Variable Frequency Drives (VFD)	Instrumentation And Controls Power	SCADA Power Interface Integration	Grounding and Bonding Design / Improvements	Lighting Systems Within Process Areas	Low-Voltage Power Systems	Electrical Building / Room Design / Rehabilitation	Standby and Backup Power Systems	Load Management Strategies	Utility Interconnection Compliance	Construction Phasing for Uninterrupted Operations	Parcel Surveying	Energy Optimization
RO WTP SCADA Control System Automation Services, Cooper City, FL							✓				✓	✓	✓		✓		✓			✓		
Motor Control Centers (MCC) Replacement Project at GTL WWTP, Fort Lauderdale, FL	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
SWTP SCADA Master Plan and Retrofit Designs, Melbourne, FL								✓			✓	✓	✓		✓	✓	✓	✓		✓		
Norwood RO/NF WTP Improvements, North Miami Beach, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Switchgear and Generator Replacement at East WTP, Boynton Beach, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WTP Electrical Improvements and Hurricane Hardening (HEE), Pembroke Pines, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Bonita Springs Utilities RO Phases I, II, and III Expansion and Lime Softening WTP Improvements, Bonita Springs, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓

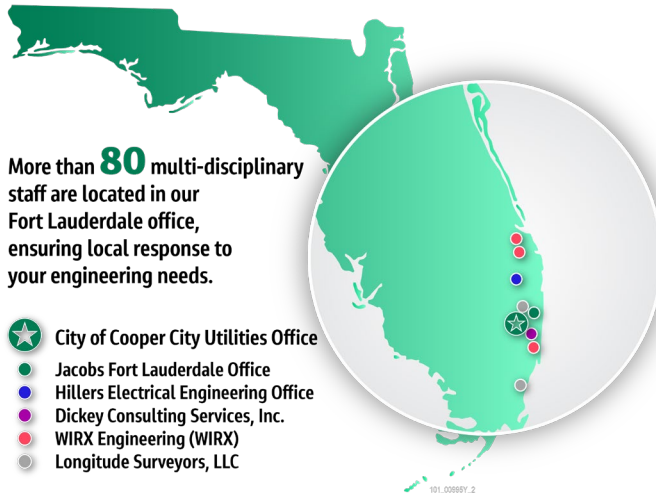
Relevant Florida Client Project Experience Matrix	Electrical Distribution System Assessment	Power System Coordination Studies	Short-Circuit Analysis	Arc-Flash Analysis	Switchgear Design / Upgrades	Motor Control Centers (MCC) Design/Upgrades	Transformer Design / Replacement	Generator Systems Design / Replacement	Automatic Transfer Switches (ATS)	Variable Frequency Drives (VFD)	Instrumentation And Controls Power	SCADA Power Interface Integration	Grounding and Bonding Design / Improvements	Lighting Systems Within Process Areas	Low-Voltage Power Systems	Electrical Building / Room Design / Rehabilitation	Standby and Backup Power Systems	Load Management Strategies	Utility Interconnection Compliance	Construction Phasing for Uninterrupted Operations	Parcel Surveying	Energy Optimization
Ave Maria Utility Company RO WTP Design-Build Projects, Ave Maria, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Palm Beach County Water Utilities - WTP9 2MW Generator Replacement, Palm Beach, FL	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓	✓		✓	✓			✓		
Lee County Utilities Green Meadows RO and Ion Exchange WTP and Wellfield Expansion, Fort Meyers, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Joe Mullings RO WTP Project, City of Melbourne, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
David L. Tippin WTF Design-Build Project, City of Tampa	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓
SCADA Master Plan and Program Implementation, Cocoa, FL											✓	✓	✓		✓	✓	✓			✓		
JEA Water/Wastewater & Electric Capital Improvement and System Resilience Plans & Program	✓	✓			✓			✓				✓									✓	

Financial Stability & Transparency

Jacobs' financial stability and industry reputation make us a trusted partner for municipal governments seeking forward-thinking, cost-effective infrastructure solutions. For company financial information, please visit <https://invest.jacobs.com> for our latest SEC corporate filing reports.

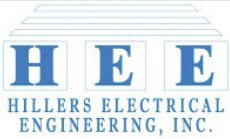
Staffing Commitment and Technical Capabilities

While Jacobs is a global project delivery company headquartered in Dallas, we are firmly focused on local delivery and responsiveness to the City's needs. Our Fort Lauderdale office located at 550 West Cypress Creek Road will manage your project, and many of our key staff are located there. As needed, we will draw upon technical expertise from our other offices across the state, including our regional design center located in Gainesville. This offers the City access to unparalleled resources in-state. Our design center specializes in providing the latest technology and best practices from around the country to our clients in Florida.



Augmenting Delivery Capabilities with Hiller Electrical Engineering (HEE) - Local Expertise, Proven Responsiveness, and Longstanding Collaboration

Hiller Electrical Engineering (MBE, SBE)

Business Name	Hillers Electrical Engineering, Inc.	
FEIN	65-0469356	
Business Address	23257 State Road 7, Suite 100, Boca Raton, FL 33428	
Email	Paul Hillers, PE, President – phillers@hillersee.com Thein Win, PE, LEED AP, Senior Vice President – twin@hillersee.com Mark E. Luther, PE, Senior Vice President – mluther@hillersee.com Shawn Hillers, PE, Vice President – shillers@hillersee.com	
Tel	(561).451.9165	
Website	https://www.hillersee.com/	
Scope of Work	Electrical engineering services	

Hillers Electrical Engineering, Inc. (HEE), headquartered in Boca Raton, Florida, has been providing exceptional electrical engineering services since 1994. The firm is recognized for its extensive experience, technical expertise, and commitment to personalized service in electrical engineering design, control application programming, and construction management. HEE's capabilities include power, control, instrumentation, telemetry, start-up assistance, construction management services and PLC/computer programming for municipal agencies and private industry. The company is certified as an SBE/MBE in several municipalities and by the State of Florida. HEE operates from a fully equipped office featuring state-of-the-art computer systems and engineering software to deliver high-quality, cost-effective solutions. Its design team utilizes advanced tools such as AutoCAD, SKM fault current/coordination/arc flash program, generator sizing programs, and 3D lighting calculation software.

The firm's expertise spans electrical, instrumentation, telemetry design, project and construction management experience for SCADA systems, water and wastewater treatment plants, stormwater pumping stations, lift stations, distributed control systems, variable frequency speed drive analysis for facility efficiency improvements, ASR wells; implementation of commercial industrial load control program systems for large industrial power users, value engineering, master planning, energy audits, cost estimates, testing, start-ups, all types of security systems, fire alarm; low, medium and high voltage distribution systems, normal and stand by generation, motor control centers (MCCs), distribution panels, voltage drop calculations, luminaire calculations, short circuit calculations, fault current calculations, protective device coordination & arc flash; professional and amateur sports complex lighting systems; power, control, instrumentation for major fuel storage and refining facilities in the U.S. and internationally.

For more than three decades, **Hilliers Electrical Engineering, Inc. (HEE)** has supported municipal clients with electrical engineering solutions tailored to the unique demands of water and wastewater facilities. The firm is recognized for its consistent responsiveness, practical problem-solving approach, and ability to work seamlessly with owners and design teams on projects that must be delivered within active, operating environments. This approach aligns closely with Jacobs' commitment to transparent communication, technical excellence, and dependable project delivery.

The Jacobs and HEE team brings extensive experience with municipal electrical improvements and switchgear replacements. **In 2022, Jacobs and HEE successfully completed the electrical design and engineering services during construction for the George T. Lohmeyer (GTL) WWTP Motor Control Centers Replacement in Fort Lauderdale, FL, which was led by project team members Raul Alfaro (Jacobs) and Mark Luther (HEE).**

As Jacobs' key partner, HEE Engineering offers

- ✓ **Proven Track Record:** Over 31 years of successful projects for municipalities across Florida and the U.S.
- ✓ **Specialized Expertise:** Deep knowledge of electrical systems for water and wastewater facilities, SCADA integration, and energy-efficient technologies.
- ✓ **Local Presence:** Based in Boca Raton with strong ties to South Florida communities, ensuring rapid mobilization.
- ✓ **Advanced Tools:** State-of-the-art software and modeling capabilities for precision and compliance.
- ✓ **Client-Centered Approach:** Immediate accessibility and commitment to resolving challenges proactively for complete client satisfaction.

The Jacobs and HEE team brings direct, first-hand experience with the City's facilities that provides a distinct advantage for this project. **The firm previously designed 23-kV breaker and switchgear modifications at the George A. Haughney Plant and served as the electrical engineer for the membrane plant during both the 1996 Water Treatment Plant Expansion and the Phase 2 Membrane Plant expansion completed in 2002.** This familiarity with the City's electrical power distribution systems, operational constraints, and historical design decisions eliminates any learning curve and enables the team to engage.

Jacobs and HEE share a long-standing and productive partnership built on successful delivery of complex electrical infrastructure projects. Together, the firms have collaborated on more than 150 projects across Florida and the U.S., including water and wastewater treatment plants, pump stations, and critical utility facilities. Recent joint efforts include the **City of Fort Lauderdale Lohmeyer WWTP MCC Replacement** (design completed in 2019 with construction from 2020 to 2022) and the **West Palm Beach Water Treatment Plant Finished Water Meters Addition** (2020). Earlier projects include the East Central Regional Water Reclamation Facility RAS Pump Station Improvements (2013), the Coral Springs Improvement District Membrane Plant (2011), and CSID WWTP Plant F Addition (2011).

Beyond municipal utility facilities, the Jacobs-HEE team has delivered major infrastructure improvements for the South Florida Water Management District, including the L-8 FEB G-539 Pump Station Valve Replacement (completed in 2023), the ongoing C-43 Reservoir and PS-470 projects, and the STA-1W Expansion #1 (2019). This depth of shared experience demonstrates the team's ability to coordinate effectively, manage technical complexity, and deliver resilient electrical systems that support long-term operational reliability. Together, Jacobs and HEE provide Cooper City with a highly integrated team that combines proven local knowledge, extensive collaborative experience, and the technical capability required to support safe, efficient, reliable electrical improvements for the City's water and wastewater facilities.

Other Subconsultants

In addition to HEE, Jacobs is excited to partner with subconsultants we've selected for their experience in geotechnical, surveying, stakeholder outreach and public communications.

WIRX Engineering (WBE, MBE, CBE, SBE, DBE)

WIRX Engineering, LLC (WIRX) is a professional Geotechnical Engineering firm headquartered in Broward County, Florida, with offices in Broward and Palm Beach Counties. WIRX provides comprehensive services including Geotechnical Engineering, Water Resource Engineering, Geotechnical Drilling, Construction Management, and Construction Materials Testing and Inspections (CMT/CEI).

The firm's three principles bring decades of combined civil and geotechnical engineering expertise, covering all aspects of project delivery—design, construction engineering inspection, material testing, project management, and heavy civil construction. They have successfully contributed to hundreds of high-profile projects for federal and local government agencies, including the South Florida Water Management District (SFWMD), U.S. Army Corps of Engineers (USACE), Florida Department of Transportation (FDOT), and numerous city and county agencies.

By integrating their experience and insight into the Contractor's means and methods during the project design phase, WIRX ultimately improves the constructability and the quality of the project, reducing unwanted change orders, facilitating communication and conflict negotiations, and providing the owner with the most cost-effective end-product. WIRX holds all required certifications and licenses from the State of Florida and the Board of Professional Engineers, along with small and minority business certifications (State of Florida M/WBE, Florida DOT DBE, Palm Beach County S/MBE, Broward County S/CBE and South Florida Water Management District SBE).

Business Name	WIRX Engineering, LLC (WIRX)	
FEIN	82-3346253	
Business Address	Fort Lauderdale : 515 E Las Olas Boulevard, Suite 120, Fort Lauderdale, FL 33301 Jupiter: 422 Meadowlark Drive, Jupiter, FL 33458 West Palm Beach: 901 Northpoint Parkway, Suite 100, West Palm Beach, FL 33407	
Email	<u>Managing Partners:</u> Andrew Nixon, PE – andrewnixon@wirxeng.com Gregory J. Stelmack, PE gregorystelmack@wirxeng.com Clifford Hippolyte, PE, GC cliffordhippolyte@wirxeng.com	
Tel	Fort Lauderdale office: (954).451.0354, Jupiter office: (561).307.0166 West Palm Beach office: (954).451.0354 Andrew Nixon, PE – (561).762.8918, Gregory J. Stelmack, PE – (561).307.0166, Clifford Hippolyte, PE, GC – (954).663.5087	
Website	www.wirxeng.com	
Scope of Work	Geotechnical Engineering Services	

Benefits of Partnering with WIRX:

- Certified Small/Minority Geotechnical Engineering Firm (SBE/MBE/CBE) with local offices in Palm Beach and Broward Counties.
- Decades of experience on thousands of South Florida projects—no learning curve.
- Deep understanding of local geotechnical and material challenges, with tailored solutions.

WIRX is committed to delivering professional, cost-effective services with highest performance and exceptional customer support. Regardless of project scale, WIRX develops practical strategies to achieve your goals on schedule and within budget—striving to be more than a service provider, but a trusted teaming partner.

Longitude Surveyors (CBE)

Business Name	Longitude Surveyors, LLC
FEIN	36-4551726
Business Address	Broward Office: 800 West Cypress Creek Road, Suite 340, Ft. Lauderdale, FL 33309 Miami-Dade Office: 7700 N. Kendall Drive, Suite 705, Miami, FL 33156
Email	Eduardo "Eddie" Suarez, PSM (President) – esuarez@longitudefl.com xrodriguez@longitudefl.com
Tel	(305).463.0912, ext. 1002
Website	www.longitudesurveyors.com
Scope of Work	Surveying, Mapping, 3D Scanning, and Subsurface Utility Engineering services



Longitude Surveyors brings extensive experience in supporting water and wastewater treatment plant projects through precise **surveying, mapping, 3D scanning, and subsurface utility engineering services**. The firm has delivered critical survey control, topographic mapping, boundary surveys, hydrographic measurements, monitoring well surveys, and detailed as-built documentation for plant upgrades, process unit expansions, and sitewide improvements. The team is highly familiar with the operational constraints of active water and wastewater facilities and consistently provides accurate data while maintaining strict safety protocols and minimizing disruptions to plant operations.

Longitude Surveyors also has substantial experience supporting **electrical and instrumentation improvements** within water and wastewater treatment facilities. The team routinely performs high-accuracy 3D laser scans and interior facility surveys to assist design teams with conduit routing, MCC replacements, electrical room modernization, pump station electrical upgrades, and SCADA improvements. Its subsurface utility team provides **Quality Level B utility designations and test holes** to identify existing underground electrical feeds, duct banks, communication lines, and control systems—delivering critical information that ensures safe excavation, reduces design conflicts, and supports reliable electrical planning for plant-wide improvements.

With more than **21 years of service across South Florida**, Longitude Surveyors has built a proven track record of delivering accurate, dependable, and timely survey data for complex utility infrastructure projects. The firm's comprehensive approach integrates traditional surveying, high-resolution scanning, and subsurface utility investigations, providing design engineers with the information required to successfully plan, design, and execute water facility and electrical improvement projects.

Dickey Consulting Services, Inc. (WBE, MBE, CBE, SBE, DBE)

Business Name	Dickey Consulting Services, Inc.
FEIN	65-1115420
Business Address	1033 Sistrunk Blvd., Suite 206 Fort Lauderdale, FL 33311
Email	sdickey@dickeyinc.com
Tel	(954).467.6822
Website	https://dickeyinc.com
Scope of Work	Stakeholder Engagement and Communication Plans



Dickey Consulting Services (DCS) is an economic development, government relations, project management and communications consulting firm. The organization and its associates provide services to public and private enterprises, coordinating, implementing and promoting projects related to economic and community development, government relations, business development, housing, public relations, public involvement, and other marketing initiatives.

Sheryl A. Dickey, founder and owner, is a community and economic development professional with more than 30 years of experience and a track record of success in these areas. She and the DCS staff bring a high level of energy and the ability to participate in a leadership or team member role to ensure successful completion of a project. DCS provides staffing for invoicing, accounting, document controls, small disadvantage business enterprise coordination, contract administration civil-CAD, construction inspections, and communications assistance. The firm also provides administrative support for budgeting, planning, management, and purchasing.

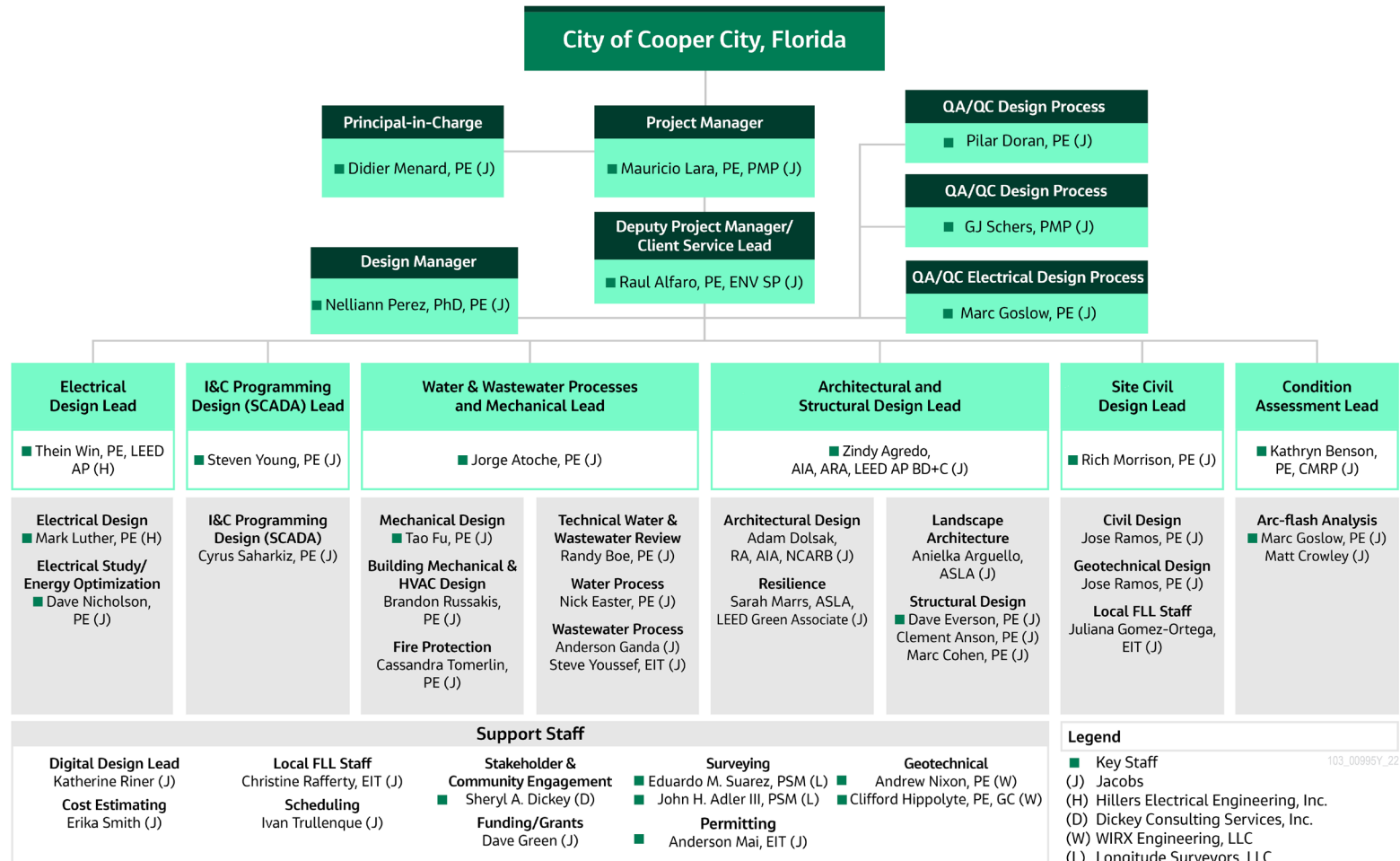
Project Team/Manager's Experience

Project Team (Organization Chart)

Our team is structured to provide the City with flexibility and the highest level of responsiveness. As illustrated throughout this section, our Florida-based key team members possess the qualifications, capacity, and most importantly, the commitment to perform the services. Jacobs looks forward to continuing our open and transparent relationship with the City to achieve continued success.

Jacobs is excited to offer the City of Cooper City the staff and resources necessary to successfully deliver its **Professional Engineering Services for Water and Wastewater Plant Electrical Improvements**. Our team is led by a strong Project Manager, Mauricio Lara, PE, supported by Deputy Project Manager, Raul Alfaro, PE whom the City knows and can trust. They are supported by a focused, technically strong core team to deliver the Professional Engineering Services for Water & Wastewater Plant Electrical Improvements, depicted in the **Project Organization Chart** on the following page. Resumes have been included in **Tab 2 Letter of Qualifications**.

Exhibit 3-4. Project Organization Chart





Mauricio Lara, PE, PMP
Project Manager

"I am extremely excited for the opportunity to partner with the City to offer a fresh perspective to develop a path forward that addresses all your current and future needs."

Why Mauricio?

23+ Years of Water/Wastewater infrastructure, utilities, asset management, and capital improvement planning expertise - makes him an invaluable Project Manager for this opportunity.

15+ Years Leading Multi-disciplinary Project Teams - Mauricio brings strategic leadership and proven execution to complex treatment facility projects.

He has managed major water and wastewater projects for clients across Florida, including Fort Lauderdale, Sunrise, Hollywood, Boynton Beach, West Palm Beach, Broward County, and Palm Beach County. His portfolio covers treatment facilities, sewer networks, pump stations, reclaimed water systems, and large utility networks -many comparable to Cooper City's Water and Wastewater Plant Electrical Improvements project.

Mauricio has extensive experience delivering complex treatment plant projects involving major electrical infrastructure, including power distribution systems, switchgear, MCCs, standby generators, SCADA upgrades, instrumentation networks, and advanced automation and controls. As Project Manager for the Sawgrass WWTP HLD Reuse Facility, Broward County Reuse Plant Expansion, and Sawgrass WWTP Train A Secondary Treatment Design, he led a multi-disciplinary engineering team -including electrical, controls, and mechanical disciplines -to ensure coordinated design, proper sequencing, and seamless integration of electrical systems with process and mechanical components. This collaborative, structured approach reduced design conflicts, improved constructability, and enhanced long-term operational reliability by ensuring electrical systems were fully aligned with process needs and facility performance requirements.

His leadership emphasizes proactive risk management, regulatory alignment, cost and schedule control, and solutions-oriented decision-making. He has also led major asset management and strategic planning initiatives for Hollywood and Fort Lauderdale. Additionally, his work on Fort Lauderdale's \$700M Waterworks 2011 Program strengthened his expertise in design management, construction oversight, project controls, and long-term, risk-informed capital planning.



Raul Alfaro, PE, ENV SP
Deputy Project Manager/
Client Service Lead

"I am committed to building on Jacobs' long history at Cooper City and continue to deliver important infrastructure projects for the City."

Why Raul?

10+ Years of Professional Experience – Experienced water treatment process engineer and project manager specialized on membrane treatment process.

7+ Years Leading Project Teams, including Leading Electrical Designs – Has led electrical design projects such as the (1) Motor Control Center (MCC) Replacement at George T. Lohemeyer WWTP for the City of Fort Lauderdale, (2) Electrical Design for the Prospect Lake Clean Water Center Optimal Corrosion Control Treatment (OCCT) Study in the City of Fort Lauderdale and (3) High Service Pump Station MCC Replacement at the City of Deerfield Beach.

Water treatment process design experience and PFAS Expertise - Leadership in PFAS wellfield evaluations, FDEP permit renewals, and major treatment plant upgrades demonstrates his ability to align master planning efforts with regulatory requirements and evolving industry standards.

Deep understanding of system-wide integration, strategic investment planning and long-term capital planning expertise - Raul will help deliver a future-ready, cost-effective, and data-driven design for the City's water infrastructure.



Didier Menard, PE
Principal-in-Charge

Why Didier?

27+ Years of industry experience - Didier leads local government affairs for the South Region, bringing unmatched expertise in public involvement strategies, program leadership, and stakeholder engagement. As Principal-in-Charge, Didier ensures project managers have the resources needed to deliver high-quality work on time and within budget, while fostering collaboration between state and local governments to maximize the use of federal infrastructure funding streams. Didier maintains strong professional relationships with federal, state, and local agencies, positioning him as a trusted advisor on infrastructure investment initiatives. His leadership spans capital improvement planning, community outreach, small business development, and workforce training, consistently driving consensus and delivering impactful results.

Didier directed communication strategies and stakeholder engagement for major programs, including Seminole County's \$332M Environmental Services CIP and City of Cocoa's Utilities Department CIP, ensuring transparency and early issue resolution. He spearheaded outreach for Miami-Dade County's \$5.7B Ocean Outfall Legislation CIP, creating mentor-protégé programs, hosting business workshops, and partnering with organizations like CareerSource to expand local workforce capacity. Didier managed corridor studies and utility planning projects, identifying redevelopment opportunities and funding strategies for municipalities like Winter Park and Cocoa. Didier's proven ability to build consensus among stakeholders, secure funding opportunities, and implement effective communication strategies makes him a key driver of success for complex infrastructure programs across the South Region.

Nelliann Perez, PhD, PE | Design Manager

Nelliann Perez is a Senior Design Manager with over 17 years of experience in design management and process engineering across diverse industries. She leads design-build and design-bid-build projects, ensuring quality, schedule, and budget compliance while supporting construction and startup phases. As **South Region Practice Leader**, she drives best practices and collaborates globally to enhance design management standards. Nelliann also serves as **Global Chair of Enlace**, championing Jacobs' TogetherBeyond strategy to empower Latino talent and foster inclusion. Her leadership and technical expertise have delivered innovative, cost-effective solutions on major water and wastewater projects across the region.

GJ Schers, PMP | QA/QC Design Process

GJ is a QA/QC Manager with over 33 years of experience and is recognized globally as a subject matter expert in water technology. He holds MS and BS degrees in Civil Engineering from Delft University of Technology and is a certified Project Management Professional. GJ specializes in water chemistry and membrane technology, with extensive experience in designing ion exchange and media filtration systems, as well as new and retrofit membrane facilities. He has presented more than 70 technical papers and currently chairs the AWWA M76 Workgroup developing best practices for pilot testing. His leadership and technical expertise have supported numerous high-profile projects across Florida, including RO expansions, IX system upgrades, and advanced filtration improvements.

Thien Win, PE, LEED AP (Hillers Electrical Engineering) | Electrical Design Lead

Thien Win has over 24 years of experience in electrical, instrumentation, communication, and control system design for water and wastewater treatment facilities. His expertise includes medium and low-voltage electrical distribution systems, SCADA systems, PLC programming, and HMI development for advanced treatment processes such as nanofiltration, reverse osmosis, lime softening, reclaimed water systems, and ASR wells. He is highly skilled in preparing specifications, value engineering, energy analysis, cost estimation, and providing startup and onsite inspection services. Proficient in SKM Power Tools™, AutoCAD, SolidWorks, LitePRO, and advanced PLC/HMI programming, Thien has successfully delivered numerous projects, including Palm Beach County WTP improvements and City of Boca Raton WTP rehabilitation, ensuring reliable, efficient, and cost-effective solutions for clients.

Pilar Doran, PE | QA/QC Design Process

Pilar Doran, PE, is a seasoned engineering leader with more than 33 years of experience in the planning, design, and construction management of water and wastewater treatment facilities. She holds an MBA and an MS in Civil Engineering from the University of Florida and is a licensed Professional Engineer in Florida. Pilar currently serves as a QA/QC Manager and Water Design Manager, leading multidisciplinary design teams and advancing technical excellence across major public and private sector water infrastructure projects. Her portfolio includes award-winning RO, lime softening, and seawater desalination facilities, as well as large-scale utility improvements throughout Florida.

Marc Goslow, PE | QA/QC Electrical Design Process

Marc has over 45 years of experience in electrical engineering, specializing in power distribution, system reliability, and instrumentation & control (I&C) design. He is a licensed Professional Engineer across more than 20 states. Based in Jacksonville, FL, Marc has led electrical and I&C design for numerous critical water and wastewater projects, including JEA wellhead systems and major treatment plant upgrades. His leadership in developing JEA's standard wellhead electrical template has streamlined project delivery, reducing time and cost. Marc's expertise ensures reliable, cost-effective solutions for complex infrastructure projects.

Mark Luther, PE (Hillers Electrical Engineering) | Electrical Design

Mark Luther, PE, is a Senior Vice President with more than 38 years of experience in electrical, instrumentation, communication, and control system design for major water and wastewater infrastructure projects. A licensed Professional Engineer in Florida, Mark holds a Bachelor of Science in Electrical Engineering from Boston University and is based in Boca Raton, Florida. His expertise spans medium-voltage power systems, SCADA integration, process control, and complex treatment facility upgrades. Mark has led electrical and control design for high-profile projects across Florida, including headworks and grit removal improvements, blower and switchgear upgrades, biosolids processing facilities, reclaimed water system expansions, and clarifier and filtration system enhancements.



**Dave Nicholson, PE |
Electrical Study/Energy Optimization**

Dave Nicholson brings 25 years of experience in electrical engineering for water and wastewater treatment facilities across the Southeast and beyond.

He specializes in the design of power distribution systems, generator integration, and energy optimization for complex municipal and industrial projects. Dave has led electrical design for major treatment plant expansions, new facility builds, and reliability upgrades, ensuring Class I redundancy and operational resilience. His expertise includes medium-voltage systems, switchgear configurations, and standby generation strategies tailored to critical infrastructure. With a BS in Electrical Engineering and multiple PE registrations, Dave combines technical depth with practical solutions that enhance efficiency and reliability. Based in Gainesville, FL, he is a trusted advisor for optimizing electrical systems in high-demand environments.



**Steven Young, PE | I&C Programming Design
(SCADA) Lead**

Steven Young is a seasoned SCADA programmer with over 21 years of experience in water and wastewater systems. As part of Jacobs' water

business group, he specializes in HMI design, programming, and architecture development, ensuring intuitive and robust control systems. His expertise spans SCADA standards development, control system evaluation, and plant startup support. Steven has led numerous upgrades for municipal treatment facilities, delivering reliable, efficient, and resilient solutions tailored to utility needs. He is highly skilled in GE iFIX, Wonderware, and VTSCADA platforms, with proven success in virtualized environments and complex PLC integrations. Clients trust Steven for his hands-on approach and ability to optimize system performance for long-term reliability.



**Jorge Atoche, PE | Water & Wastewater Process
and Mechanical Lead**

Jorge Atoche is a seasoned water resources engineer with 24 years of experience in water and wastewater treatment process design, raw water supply, and

advanced membrane technologies. He holds an MS in Civil Engineering from Louisiana State University and is a licensed Professional Engineer in Florida and Louisiana. Based in Tampa, FL, Jorge specializes in membrane desalination, advanced water reclamation processes, and master planning for water and wastewater systems. His expertise spans design, permitting, construction administration, and commissioning for large-scale treatment facilities, ensuring innovative, cost-effective, and regulatory-compliant solutions.



Tao Fu, PE | Mechanical Design

Tao Fu is a highly experienced mechanical engineer with 30 years of expertise in water and wastewater treatment facility design. He holds an MS in Civil Engineering from Clarkson University and is a

licensed Professional Engineer in Florida. Based in Gainesville, FL, Tao specializes in process mechanical design for advanced water treatment systems, reverse osmosis plants, and wastewater process upgrades. His leadership has been instrumental in delivering large-scale projects, including RO WTP expansions, nitrogen removal conversions, and advanced water reclamation facilities, ensuring efficient, reliable, and cost-effective solutions.



**Zindy Agredo, AIA, ARA, LEED AP BD+C |
Architectural & Structural Design Lead**

Zindy Agredo is a licensed architect and interior designer with 21 years of experience delivering complex projects across public and private sectors. She

holds a Master of Architecture from Boston Architectural College and a Bachelor of Design in Architectural Studies from Florida International University. Based in Miami, FL, Zindy specializes in managing large-scale capital programs, overseeing projects from concept through close-out while ensuring compliance with client standards and codes. Her expertise spans sustainability, integrated design, LEED guidelines, and building systems. Zindy's leadership has driven innovation and efficiency in projects for municipalities, educational institutions, and federal agencies.



Dave Everson, PE | Structural Design

Dave is a structural engineer with over 23 years of experience in all phases of engineering operations, specializing in water and wastewater treatment facilities and design-build projects across the U.S.

and internationally. His expertise includes reinforced concrete tanks, foundations, structural steel, masonry buildings, pile foundations, and retaining walls. Dave also brings five years of experience in Pre-Engineered Metal Building (PEMB) systems, commonly used in water and wastewater plant design, making him a valuable resource for complex infrastructure projects. He has served as Lead Structural Engineer on numerous high-profile projects, including major water treatment plant expansions, structural condition assessments, and rehabilitation efforts. Dave's deep knowledge of industry standards and proven ability to deliver durable, cost-effective solutions ensures successful outcomes for both public and private sector clients.



Rich Morrison, PE | Site Civil Lead

Rich brings 22 years of experience in civil engineering with a strong focus on site and utility design for water and wastewater treatment facilities. He is a licensed Professional Engineer in multiple states and has extensive expertise in site layout, grading, stormwater management, and water/wastewater utility design. Rich has successfully led civil design for major projects, including water treatment plant expansions, groundwater recharge wetlands, and advanced water reclamation facilities. His experience spans commercial, residential, and municipal infrastructure projects, where he integrates environmental considerations throughout all phases of design and construction. Rich's leadership and technical proficiency ensure cost-effective, sustainable solutions that meet regulatory requirements and client objectives.



Kathryn Benson, PE, CMRP | Condition Assessment Lead

Kathryn is a seasoned consultant with over 25 years of experience in strategic asset management, condition assessment, and infrastructure planning. She specializes in developing and implementing comprehensive asset management programs, including CMMS integration, risk-based decision frameworks, lifecycle costing, and capital improvement planning. Kathryn has led numerous programs for utilities across the U.S., delivering solutions such as condition assessment protocols, reliability analyses, and optimization studies to improve asset performance and sustainability. Her expertise spans gap analysis, strategic plan development, financial modeling, and grant funding strategies, with a proven track record of securing significant funding and aligning capital projects with organizational goals.



Anderson Mai, EIT | Permitting

Anderson is a water process engineer bringing 5 years of experience in water treatment projects including field engineering roles for pilot testing, project commissioning, process evaluation, hydraulic modeling, master plan development, condition assessments, report preparation, and services during construction. Anderson has experience as a water operator for 2 years at the Norwood WTP and retains a class "C" license. He has also worked as a permit engineer for 2 years for the City of Bonita Springs complying with environmental, stormwater management, building, and city codes for project acquisition. Anderson worked closely with a multi-disciplinary engineering team, the FDEP, and the SFWMD when coordinating the permit approval for development orders extensively modifying water conveyance, public infrastructure, and ecological encroachment. He is well adept in the Florida Building Code, Land Development Code, sureties/bonds, and best management practices during construction.



Eduardo M. Suarez, PSM | Surveying

Eduardo is a Florida-licensed Professional Surveyor and Mapper with over 40 years of experience leading complex surveying projects across water and wastewater treatment facilities, infrastructure, transportation, commercial, and residential developments. Based in Miami, FL, he brings extensive expertise in topographic and boundary surveys, Subsurface Utility Engineering (SUE), 3D laser scanning, bathymetric surveys, and utility coordination in accordance with ASCE standards. Eddie is recognized for his technical precision, regulatory knowledge, and collaborative leadership style, ensuring seamless coordination with multidisciplinary engineering teams. His experience includes surveying major water and wastewater treatment plants throughout South Florida, delivering accurate, high-quality data to support design, permitting, and construction while maintaining strong client relationships built on integrity and reliability.



John H. Adler, III, PSM | Surveying

John Adler is a Florida-licensed Professional Surveyor and Mapper with 45 years of experience specializing in Subsurface Utility Engineering (SUE) and utility-focused surveying services. Based in Miami, FL, he has led complex municipal infrastructure projects throughout South Florida, supporting water and wastewater treatment plants, transmission systems, pump stations, and pipeline corridors. John has extensive expertise in ASCE-compliant Quality Level A and B investigations using Ground Penetrating Radar (GPR) and electromagnetic detection. Recognized for his technical precision and detailed data analysis, John ensures accurate documentation of subsurface utilities to support safe and efficient project delivery. His collaborative approach and deep knowledge of geospatial technologies consistently provide reliable, high-quality surveying solutions for multidisciplinary engineering teams.



Andrew Nixon, PE | Geotechnical

Andrew Nixon is a Florida-licensed Professional Engineer with 18 years of experience providing geotechnical, environmental, and construction materials engineering services throughout South Florida. His expertise includes subsurface investigations, SPT and auger borings, laboratory testing, foundation design recommendations, and deep foundation analysis for precast prestressed concrete and auger cast-in-place piles. Andrew has supported roadway, bridge, water and sewer utility, force main, and municipal facility projects, delivering practical and cost-effective geotechnical solutions. He also provides construction-phase services including foundation observations, instrumentation monitoring, QA/QC oversight, and coordination with drilling and engineering teams to ensure safe, reliable, and constructible designs.



Clifford Hippolyte, PE, GC | Geotechnical

Clifford Hippolyte is a Florida-licensed Professional Engineer and Certified General Contractor with 21 years of experience in civil and water resources infrastructure projects. His expertise includes site civil design, pump stations, reservoirs, levees, and control structures, as well as constructability reviews, cost estimating, and construction-phase services. Clifford's combined engineering and contractor background provides practical insight into design, budgeting, and construction methods, ensuring efficient and Constructible project delivery.

As indicated in the following table, our team members are well-versed in the activities associated with the City's Water and Wastewater Plant Electrical Improvements. We offer the City an experienced team that has successfully collaborated on similar projects.

Exhibit 3-5. Team Member Relevant Experience Matrix

TEAM MEMBER RELEVANT EXPERIENCE MATRIX	Water & Wastewater Facilities Planning and Design	Water & Wastewater Facilities Electrical Design	Water & Wastewater Facilities I&C Programming Design (SCADA)	Water & Wastewater Facilities Electrical Study/Energy Optimization	Water & Wastewater Facilities Mechanical Design	Water & Wastewater Facilities Building Mechanical & HVAC Design	Water & Wastewater Facilities Processes Evaluation	Water & Wastewater Facilities Architectural Design	Water & Wastewater Facilities Structural Design	Water & Wastewater Facilities Civil Site Design	Water & Wastewater Facilities Condition Assessment	Water & Wastewater Facilities Sustainability Resilience	Water & Wastewater Facilities Fire Protection	Water & Wastewater Facilities Permitting
Mauricio Lara, PE, PMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raul Alfaro, PE, ENV SP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Didier Menard, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		
Nelliann Perez, PhD, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pilar Doran, PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GJ Schers, PMP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Marc Goslow, PE	✓	✓	✓	✓	✓	✓	✓				✓			
Thien Win, PE, LEED AP	✓	✓	✓	✓							✓		✓	✓
Mark Luther, PE	✓	✓	✓	✓							✓		✓	✓
Dave Nicholson, PE	✓	✓									✓			
Jorge Atoche, PE	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		
Tao Fu, PE	✓				✓						✓			
Zindy Agredo, AIA, ARA, LEED AP BD+C	✓							✓						
Dave Everson, PE	✓								✓		✓			
Rich Morrison, PE	✓									✓	✓			✓
Kathryn Benson, PE, CRMP	✓			✓			✓			✓	✓	✓		
Anderson Mai, EIT	✓						✓					✓		✓
Steven Young, PE	✓		✓								✓			

Contract Agreement

Jacobs Engineering Group Inc. (JEG) has reviewed the terms and conditions of the RFQ and finds them generally acceptable; however, JEG is submitting this proposal with the understanding and expectation that the City of Cooper City and JEG will have the opportunity to work together to create a mutually acceptable agreement, supplementing and modifying the terms and conditions included with the RFQ, as appropriate for the services to be rendered. And, if selected, JEG respectfully requests the ability to clarify, at a minimum, certain insurance coverage requirements and indemnity obligations.

Technical Proposal

Tab 4 Narrative for Criteria

Narrative For Criteria

First-Tier Criteria

Criterion 1A: Qualifications of Firms Including the Team Members Assigned to the Project:

Evaluation of the qualifications of the firm and individuals to be assigned to the project, quality and availability of the manager and staff of the firm to be assigned (if any). The qualifications shall also include, but not be limited to, familiarity with City of Cooper City & Broward County regulations and the experience level of professional and management staff.

Jacobs Engineering Group Inc. (Jacobs) is a Fortune 500 professional services firm with more than **78 years of experience** and over **60 years supporting Florida utilities**, including nearly **40 years of continuous service to the City of Cooper City - bringing unmatched local knowledge and proven delivery of complex water and wastewater infrastructure projects**. Our Florida-based team includes more than **1,690 professionals** with deep expertise in electrical engineering, SCADA, and water/wastewater infrastructure, supported by over **400 electrical engineers** and more than **350 SCADA and control systems specialists**.

Jacobs brings unparalleled familiarity with Cooper City's infrastructure, having supported the George A. Haughney Water Treatment Plant since its original development, including automation of the City's SCADA systems and ongoing support services. This institutional knowledge allows our team to immediately engage with the City's facilities, operational constraints, and regulatory environment - eliminating ramp-up time and reducing project risk.

Project Leadership

This leadership team brings over 60 years of combined experience delivering complex water and wastewater infrastructure projects across Florida, ensuring strong project control, responsiveness, and successful outcomes.

- **Mauricio Lara, PE, PMP – Project Manager (23+ years)**
Mauricio is an experienced project manager with a strong track record delivering complex water and wastewater infrastructure projects across Florida. His leadership spans multidisciplinary teams and includes projects involving electrical power distribution, MCCs, standby power systems, and SCADA integration. He is responsible for overall project delivery, including schedule, budget, coordination, and maintaining alignment with City priorities.
- **Raul Alfaro, PE, ENV SP – Deputy Project Manager / Client Service Lead (10+ years)**
Raul supports day-to-day project execution, technical coordination, and client communication. He specializes in membrane treatment, with experience leading multidisciplinary teams in water treatment plant improvements including electrical designs, MCC replacements, pump station upgrades, and permitting across South Florida. He ensures responsiveness, continuity, and alignment with City expectations throughout all phases of the project.
- **Didier Menard, PE – Principal-in-Charge (27+ years)**
Didier provides executive oversight and ensures the project team has the resources, technical support, and strategic direction needed to deliver successfully. His extensive experience working with municipal clients across Florida supports effective coordination with regulatory agencies, stakeholder engagement, and overall program success.

Integrated Team Structure and Key Partner

Jacobs has partnered with **Hillers Electrical Engineering, Inc. (HEE)**, a highly respected Florida-based MBE/SBE firm with more than **30 years of specialized experience in electrical engineering for water and wastewater facilities**. HEE is recognized for its deep technical expertise in medium- and low-voltage power distribution, MCC and switchgear design, SCADA integration, and power system studies. HEE has supported numerous municipalities across South Florida, including Fort Lauderdale, Palm Beach County, and Boca Raton, delivering complex electrical upgrades within active treatment facilities. Their strength lies in combining practical, operations-focused design with strong coordination during construction and commissioning.

The Jacobs-HEE team brings direct, first-hand experience with Cooper City's facilities, including prior design of 23-kV breaker and switchgear modifications and electrical engineering support for the original and expanded membrane plant at the George A. Haughney WTP. This familiarity with the City's electrical systems, operational constraints, and historical design decisions eliminates any learning curve and enables immediate, informed engagement.

Jacobs and HEE have a long-standing partnership, having successfully delivered more than 150 electrical infrastructure projects across Florida and the U.S., including water and wastewater treatment plants, pump stations, and utility facilities. Recent collaborations include the City of Fort Lauderdale GTL WWTP MCC Replacement and the West Palm Beach WTP

Finished Water Meters project. This depth of shared experience enables seamless coordination, efficient delivery, and development of resilient, operations-focused electrical solutions. **Together, Jacobs and HEE provide Cooper City with a highly integrated team combining local knowledge, proven collaboration, and strong technical capability.**

Electrical & SCADA Leadership Depth

The Jacobs–HEE team provides exceptional depth and specialized expertise in electrical engineering and control systems, anchored by senior specialists who collectively bring over 150 years of combined electrical and SCADA experience on Florida utility projects:

- Marc Goslow, PE – QA/QC Electrical Lead (45+ years)**
 Marc is a senior electrical technologist with over four decades of experience in power distribution, system reliability, and electrical design for water and wastewater facilities. He has led electrical and I&C design for numerous treatment plant and wellfield projects, including development of standardized electrical design approaches that improve efficiency and reduce delivery risk. His expertise in medium- and low-voltage systems, standby power, and system integration ensures robust, code-compliant, and highly reliable electrical solutions for Cooper City.
- Thein Win, PE (HEE) – Electrical Design Lead (24+ years)**
 Specialist in medium- and low-voltage electrical distribution systems, MCC and switchgear design, and SCADA/PLC integration for advanced treatment facilities. Thein is highly proficient in SKM power system modeling and has led electrical and I&C design for major utility projects across South Florida. His experience includes power system analysis, grounding design, harmonic mitigation, and detailed outage planning—ensuring safe, efficient implementation within active facilities.
- Mark Luther, PE (HEE) – Senior Electrical Engineer (38+ years)**
 Brings extensive experience in electrical, instrumentation, and control system design for large-scale water and wastewater facilities. Mark has led design for complex upgrades involving medium-voltage distribution systems, switchgear replacements, blower facilities, biosolids systems, and SCADA integration. His strong technical judgment and operations-focused approach ensure reliable, maintainable, and cost-effective electrical systems.
- Dave Nicholson, PE – Electrical Studies & Energy Optimization (25+ years)**
 Expert in power distribution, system reliability, and generator integration for treatment facilities. Dave has led electrical design for major plant expansions and upgrades, including Class I reliability systems, redundant power configurations, and generator/load transfer schemes. His experience in evaluating system alternatives and optimizing energy performance supports resilient, future-ready infrastructure.
- Steven Young, PE – SCADA / I&C Programming Lead (21+ years)**
 Leads SCADA architecture, HMI design, and control system integration using platforms such as GE iFIX, Wonderware, and VTSCADA. Steven has direct experience with Cooper City's treatment plant systems and has led multiple SCADA upgrades across Florida utilities. His expertise ensures intuitive, reliable control systems that enhance operational efficiency and long-term maintainability.

These key electrical and SCADA leaders are supported by Jacobs' broader technical network, ensuring depth, redundancy, and scalability for all project needs.

Depth of Resources and Availability

The Jacobs–HEE team is structured to provide both depth and availability. Key personnel are Florida-based and supported by a statewide network of multidisciplinary specialists, enabling rapid response, continuity, and scalability throughout the project lifecycle.

The Proposed Team Workload/Availability matrix (Exhibit 4-1) demonstrates committed staff allocation across all phases of the project, with built-in redundancy across key disciplines to ensure uninterrupted progress and consistent delivery. Our structure ensures that the right expertise is available at the right time, regardless of project complexity or evolving needs.

Supporting Subconsultants

Jacobs is supported by specialized subconsultants with deep local expertise:

- Dickey Consulting Services** – Stakeholder engagement and communication (WBE/MBE/CBE/SBE/DBE)
- Longitude Surveyors** – Surveying, mapping, and subsurface utility engineering (CBE)
- WIRX Engineering** – Geotechnical services (WBE/MBE/CBE/SBE/DBE)

Regulatory Familiarity and Local Experience

Our team has extensive experience working within Broward County and South Florida and is highly familiar with applicable regulatory frameworks, including:

- Florida Department of Environmental Protection (FDEP)
- Broward County permitting and development requirements
- South Florida Water Management District (SFWMD)
- Florida Power & Light (FPL) coordination and service requirements

This experience enables efficient permitting, proactive coordination with agencies, and designs that fully comply with local, county, and state regulations.

Exhibit 4-1: Proposed Team Workload/Availability

Team Member	Available	Team Member	Available
Mauricio Lara, PE, PMP	70%	Anderson Mai, EIT	70%
Raul Alfaro, PE, ENV SP	50%	Brandon Russakis, PE	40%
Didier Menard, PE	25%	Cassandra Tomerlin, PE	20%
Nelliann Perez, PhD, PE	50%	Randy Boe, PE	30%
Pilar Doran, PE	30%	Nick Easter, PE	50%
GJ Schers, PMP	30%	Anderson Ganda	70%
Marc Goslow, PE	90%	Steve Yousseff, EIT	70%
Thien Win, PE, LEED AP (HEE)	50%	Adam Dolsak, RA, AIA, NCARB	40%
Mark Luther, PE (HEE)	60%	Sarah Marrs, PE, LEED Associate, ASLA	50%
Dave Nicholson, PE	50%	Clement Anson, PE	40%
Steven Young, PE	50%	Marc Cohen, PE	40%
Jorge Atoche, PE	50%	Jose Ramos, PE	40%
Zindy Agredo, PE, AIA, ARA, LEED AP BD+C	50%	Juliana Gomez-Ortega, EIT	70%
Dave Everson, PE	40%	Matt Crowley, PE	40%
Rich Morrison, PE	50%	Christine Rafferty, EIT	70%
Kathryn Benson, PE, CMRP	50%		

Collectively, the Jacobs–HEE team brings unmatched qualifications, breadth of resources, and proven performance delivering complex electrical upgrades at active treatment facilities throughout Florida. Our combination of institutional knowledge, strong leadership, specialized electrical expertise, strong partnerships, and available resources ensures successful delivery of safe, reliable, and resilient electrical improvements for the City's water and wastewater facilities.

Criterion 2A: Knowledge and Past Experience of Similar Type Projects:

Evaluation of the respondent's understanding of the scope of work, which may include but not be limited to studies performed that may affect the specific project being evaluated for: key design elements, contract, approach to the project, understanding and awareness of the permitting requirements involved with the project and health and safety programs as applicable. Evaluation of respondent's experience and knowledge on similar type projects.

Jacobs and its partners have an exceptional record delivering electrical, SCADA, power distribution, and reliability improvements at water and wastewater treatment plants across Florida, including projects of similar size, complexity, and operational constraints:

- **Fort Lauderdale GTL WWTP MCC Replacement:** Design and construction support for MCCs 3, 4, 4A, 5, and 6, including a comprehensive Power System Study covering all switchgear, substations, MCCs, and panelboards.
- **Melbourne SCADA & Electrical Master Plan Retrofit:** A \$4.5M facility automation and SCADA modernization including PLC/HMI upgrades, advanced automation, standards development, and turnkey deployment.
- **North Miami Beach Norwood Oeffler NF/RO WTP Expansion:** Addition of NF/RO capacity with major electrical upgrades, VFD installations, and energy efficiency improvements.

- **Boynton Beach Switchgear & Generator Replacement:** Installation of Tier 4 and Tier 2 generators, switchgear modifications, SCADA integration, and PCB remediation planning.
- **Pembroke Pines WTP Electrical Improvements & Hurricane Hardening:** Replacement of main switchboards, ATS, generator paralleling systems, and portable generator quick-connects.

Several of these projects—including work at Cooper City facilities—provide direct familiarity with existing systems, allowing the team to begin work immediately with no learning curve.

This experience directly aligns with Cooper City's needs, including:

- Switchgear and MCC replacement
- Medium- and low-voltage distribution systems
- Standby power and generator systems
- Grounding and bonding improvements
- Short circuit, coordination, and arc flash studies
- SCADA interface and instrumentation/control integration

Jacobs' approach to similar projects is structured, phased, and operations-focused. We develop design solutions that incorporate detailed outage planning, sequencing, and constructability reviews to maintain continuous plant operations. Our methodology includes milestone-based design progression (30%, 60%, 90%), early coordination with operations staff, and integration of design, permitting, and construction support to minimize risk and ensure efficient delivery.

Our team has extensive experience navigating permitting and regulatory requirements applicable to water and wastewater facilities in Florida, including coordination with the Florida Department of Environmental Protection (FDEP), Broward County agencies, and local utilities such as FPL. We incorporate permitting considerations early in design to avoid delays and ensure compliance with all applicable codes and standards.

Safety is integral to our project delivery. Jacobs implements rigorous health and safety protocols when working in active treatment facilities, including detailed safety planning, lockout/tagout procedures, arc flash hazard mitigation, and coordination with plant staff to protect personnel and maintain safe operations during construction and commissioning.

This depth of experience demonstrates our comprehensive understanding of the technical, operational, permitting, and safety requirements necessary to successfully deliver complex electrical improvements within fully operational water and wastewater treatment facilities.

Relevant Electrical Experience Matrix

The following table highlights similar projects that demonstrate our ability to deliver Water and Wastewater Plant Electrical Improvements. These projects reflect our experience with utilities across Florida and collaboration with member governments. Detailed project descriptions along with references are provided in Tab 6 Experience and Qualifications of the Firm.

Exhibit 4-2. Relevant Electrical Experience Matrix

Relevant Florida Client Project Experience Matrix	Electrical Distribution System Assessment	Power System Coordination Studies	Short-Circuit Analysis	Arc-Flash Analysis	Switchgear Design / Upgrades	Motor Control Centers (MCC) Design/Upgrades	Transformer Design / Replacement	Generator Systems Design / Replacement	Automatic Transfer Switches (ATS)	Variable Frequency Drives (VFD)	Instrumentation And Controls Power	SCADA Power Interface Integration	Grounding and Bonding Design / Improvements	Lighting Systems Within Process Areas	Low-Voltage Power Systems	Electrical Building / Room Design / Rehabilitation	Standby and Backup Power Systems	Load Management Strategies	Utility Interconnection Compliance	Construction Phasing for Uninterrupted Operations	Parcel Surveying	Energy Optimization
RO WTP SCADA Control System Automation Services, Cooper City, FL								✓			✓	✓	✓		✓		✓			✓		
Motor Control Centers (MCC) Replacement Project at GTL WWTP, Fort Lauderdale, FL	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
SWTP SCADA Master Plan and Retrofit Designs, Melbourne, FL								✓			✓	✓	✓		✓	✓	✓			✓		
Norwood RO/NF WTP Improvements, North Miami Beach, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Switchgear and Generator Replacement at East WTP, Boynton Beach, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WTP Electrical Improvements and Hurricane Hardening (HEE), Pembroke Pines, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Bonita Springs Utilities RO Phases I, II, and III Expansion and Lime Softening WTP Improvements, Bonita Springs, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Ave Maria Utility Company RO WTP Design-Build Projects, Ave Maria, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Palm Beach County Water Utilities - WTP9 2MW Generator Replacement, Palm Beach, FL	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓	✓		✓	✓			✓		
Lee County Utilities Green Meadows RO and Ion Exchange WTP and Wellfield Expansion, Fort Meyers, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Joe Mullings RO WTP Project, City of Melbourne, FL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
David L. Tippin WTP Design-Build Project, City of Tampa	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓

Relevant Florida Client Project Experience Matrix	Electrical Distribution System Assessment	Power System Coordination Studies	Short-Circuit Analysis	Arc-Flash Analysis	Switchgear Design / Upgrades	Motor Control Centers (MCC) Design/Upgrades	Transformer Design / Replacement	Generator Systems Design / Replacement	Automatic Transfer Switches (ATS)	Variable Frequency Drives (VFD)	Instrumentation And Controls Power	SCADA Power Interface Integration	Grounding and Bonding Design / Improvements	Lighting Systems Within Process Areas	Low-Voltage Power Systems	Electrical Building / Room Design / Rehabilitation	Standby and Backup Power Systems	Load Management Strategies	Utility Interconnection Compliance	Construction Phasing for Uninterrupted Operations	Parcel Surveying	Energy Optimization
SCADA Master Plan and Program Implementation, Cocoa, FL										✓	✓	✓			✓	✓	✓		✓			
JEA Water/Wastewater & Electric Capital Improvement and System Resilience Plans & Program	✓	✓			✓			✓				✓									✓	

Criterion 3A: Past Performance for the Firms:

Evaluation of the firms on the team, overall interrelationship with proposed sub-consultants and responsiveness, experience in scheduling projects, and timely submittal of deliverables on past projects. Respondents shall submit a minimum of two (2) references for projects performed in the State of Florida over the past five (5) years of similar size and scope as described within the Solicitation.

Jacobs and Hillers Electrical Engineering (HEE) have a proven track record of delivering projects on schedule, within budget, with a high level of responsiveness to client needs, and with high-quality outcomes, supported by robust project controls, disciplined scheduling practices, and proactive stakeholder engagement. On comparable water and wastewater infrastructure projects, Jacobs consistently achieves net change orders of less than 3%, reflecting effective planning, coordination, and risk management.

Our team demonstrates strong interrelationship and seamless coordination with subconsultants through clearly defined roles, integrated project delivery processes, and regular coordination meetings. Jacobs and HEE have successfully partnered on more than 150 municipal electrical infrastructure projects across Florida and the U.S., fostering a collaborative working environment that enhances efficiency, minimizes conflicts, and ensures consistent delivery of coordinated design packages.

Jacobs employs structured scheduling and project management systems, including milestone-based design reviews and active schedule tracking, to ensure timely submittal of deliverables. Our teams consistently meet or exceed project milestones, including critical design phases, by maintaining accountability, early issue identification, and responsive communication with clients and stakeholders.

Representative Florida References (past 5 years):

1) City of Fort Lauderdale – George T. Lohmeyer (GTL) WWTP MCC Replacement

- Contact: Miguel Arroyo, Water/Wastewater Treatment Manager | Phone No.: 954.828.7806
| E-mail: marroyo@fortlauderdale.gov
- Scope: Multi-MCC replacement, power system study, electrical distribution upgrades

2) City of Melbourne – SCADA and Electrical Retrofit

- Contact: Jennifer Spagnoli, Public Works & Utilities Director | Phone No: 321.608.5000
| E-mail: jennifer.spagnoli@mlbfl.org
- Scope: SCADA modernization, PLC/HMI redesign, facility automation

3) City of North Miami Beach – NF/RO WTP Expansion and Electrical Improvements

- Contact: Pedro Melo, Assistant Director of O&M | Phone No.: 305.948.2967 (Ext. 32002)
|E-mail: pedro.melo@citynmb.com
- Scope: 9 MGD NF/RO expansion, new membrane skids, and electrical upgrades

Across these projects, client references confirm Jacobs' and HEE's consistent performance in delivering high-quality work, maintaining schedule commitments, and providing responsive, collaborative service.

Criterion 4A: Ability of the Team Members to Interface with the County:

Communication ability, proximity to the project, commitment to satisfy the City's requirements and familiarity with City of Cooper City & Broward County guidelines.

Jacobs will provide a highly responsive, locally based team with proven ability to effectively interface with the City of Cooper City and Broward County agencies. The team is led by **Project Manager Mauricio Lara, PE, PMP**, supported by **Deputy Project Manager Raul Alfaro, PE**—a trusted professional known to the City—and **Principal-in-Charge Didier Menard**, along with key electrical leads from Hillers Electrical Engineering, including **Thien Win, PE** and **Mark Luther, PE**. This team brings direct experience at the **George A. Haughney Water Treatment Plant**, including prior switchgear and electrical system improvements, enabling immediate, informed decision-making with no learning curve.

Our team is based in Jacobs' Fort Lauderdale office, located less than 21 miles from the City's facilities, ensuring rapid onsite response, frequent face-to-face coordination, and continuous availability throughout design and construction. This proximity is particularly critical for supporting operational coordination, responding to urgent issues, and maintaining alignment during outages and phased implementation.

Jacobs has supported Cooper City for nearly 40 years, providing us with a deep understanding of the City's infrastructure, operational priorities, and regulatory environment, including Broward County and applicable state permitting requirements. This long-standing relationship allows our team to seamlessly integrate with City staff, function as an extension of the City's team, and maintain continuity of institutional knowledge.

Our communication approach is structured, transparent, and proactive. We will maintain consistent engagement through regular progress meetings, milestone design reviews (30%, 60%, 90%), and clear reporting on schedule, budget, and risks. Early issue identification and collaborative resolution workshops are central to our process, ensuring alignment with City expectations and minimizing disruptions to ongoing plant operations.

Jacobs is fully committed to meeting and exceeding the City's requirements. Backed by a deep bench of Florida-based professionals, we ensure the right resources are always available to support the Water and Wastewater Plant Electrical Improvements Program. Our team's accessibility, responsiveness, and collaborative approach will provide the City with reliable, high-quality service throughout the duration of the project.

Second-Tier Criteria

Criterion 1B: Knowledge of Project Scope:

Evaluation of the respondent's understanding of the scope of work, which may include but not be limited to studies performed that affect this project, key design elements (a design scheme may be required), and effects on the community involved. The managerial approach to the advertised solicitation shall also be evaluated, including the implementation of systems that shall be utilized to keep track of the project schedule, cost control, quality assurance and quality control, understanding and awareness of permitting requirements and health and safety programs.

The Jacobs-HEE team demonstrates a clear and comprehensive understanding of Cooper City's electrical improvement needs, including:

- Modernization of aging electrical distribution systems
- Replacement and upgrade of switchgear, MCCs, transformers, and standby generators
- SCADA power interface and instrumentation/control integration
- Grounding system improvements and arc flash compliance (NFPA 70E)
- Reliability and resiliency enhancements aligned with the 2024 Water & Wastewater Master Plan

Our approach is structured around a **Basis of Design (BOD)-driven methodology**, which serves as the foundation for all project decisions. As outlined in our **Project Approach (Tab 5)**, we will perform a comprehensive condition assessment of electrical infrastructure (switchgear, MCCs, VFDs, transformers, ATS, generators, SCADA components) and develop a BOD that evaluates system alternatives, construction sequencing, temporary power needs, cost, and risk. This process ensures that design solutions reflect current operating conditions, regulatory requirements, and long-term system performance goals.

Jacobs' project delivery approach is phased, collaborative, and operations-focused. We implement design development through 30%, 60%, 90%, and 100% milestones, supported by stakeholder workshops, decision checkpoints, and

transparent communication with City staff. Our outage planning and cutover sequencing strategies are developed early and refined throughout design to maintain continuous plant operations and minimize disruptions.

Our managerial approach incorporates robust **project controls** and proven systems to **manage schedule, cost, and quality**. We utilize CPM-based scheduling, weekly cost tracking, earned value analysis, and a continuously updated change management log to proactively manage scope, budget, and risks. Quality assurance and quality control are implemented through Jacobs' BeyondExcellence™ program, ensuring accurate, constructible, and compliant deliverables at each stage.

The team has extensive experience navigating permitting requirements for similar projects across Florida. As described in our Project Approach, we will initiate early coordination with regulatory agencies through pre-application meetings, maintain a detailed permitting log, and prepare complete, compliant submittals to support efficient approvals. Our familiarity with agencies such as FDEP, Broward County, SFWMD, and FPL ensures a streamlined permitting process aligned with project milestones.

Jacobs prioritizes health and safety in all phases of delivery, particularly within active treatment facilities. Our approach includes detailed safety planning, lockout/tagout procedures, arc flash hazard mitigation, and coordination with plant staff and contractors to ensure safe execution of all work activities.

We also recognize the importance of minimizing impacts to the community and maintaining uninterrupted utility service. Our phased implementation strategy, proactive stakeholder engagement, and detailed outage planning ensure operational continuity, minimize disruptions, and maintain public confidence throughout the project lifecycle.

Criterion 2B: Qualifications of Team Members Assigned to the Project:

Evaluation of the qualifications of the individuals to be assigned to the project, including the project manager and staff of the firm to be assigned (if any). The qualifications shall include, but not be limited to, experience with similar projects, management experience, and familiarity with City of Cooper City & Broward County regulations.

Jacobs has assembled a dedicated, Florida-based project team with proven experience delivering electrical improvements for water and wastewater treatment facilities across Florida. Our key personnel are locally based and readily accessible, ensuring responsiveness, continuity, and consistent engagement throughout the project. **Exhibit 4-1 demonstrates the committed staff allocation and Exhibit 4-2 Team's experience matrix confirms alignment of qualifications with all required project tasks.** The team is structured to provide seamless integration between Jacobs, HEE, and our subconsultants, with clearly defined roles and strong internal coordination to deliver high-quality, timely results.

The team brings direct experience working with Cooper City and across Broward County utilities, as well as extensive familiarity with FDEP, SFWMD, and FPL coordination requirements—ensuring efficient permitting and regulatory compliance.

Project Leadership

Mauricio Lara, PE, PMP – Project Manager (23+ years)

Mauricio leads multidisciplinary teams delivering complex water and wastewater infrastructure projects across Florida. His experience includes major capital programs, asset management, and projects involving electrical systems such as power distribution, MCCs, standby power, and SCADA integration.

Raul Alfaro, PE, ENV SP – Deputy Project Manager (10+ years)

Raul supports project execution and technical coordination, specializing in membrane treatment, with experience leading multidisciplinary teams in water treatment plant improvements including electrical designs, MCC replacements, pump station upgrades, and permitting across South Florida.

Didier Menard, PE – Principal-in-Charge (27+ years)

Provides executive oversight, ensuring resources, stakeholder coordination, and alignment with regulatory agencies and funding programs.

Nelliann Perez, PhD, PE – Design Manager (17+ years)

Leads multidisciplinary design delivery, ensuring quality, schedule adherence, and cost control.

Collectively, the leadership team brings extensive management experience delivering multidisciplinary projects of similar size and complexity across Florida utilities.

Electrical & SCADA Leadership Depth

Marc Goslow, PE (45+ years)

Electrical QA/QC leader with extensive experience in power distribution, system reliability, and I&C design for major utility facilities.

Thien Win, PE (HEE) (24+ years)

Specialist in electrical distribution, MCC/switchgear design, SCADA integration, and outage planning for active treatment facilities.

Mark Luther, PE (HEE) (38+ years)

Senior electrical engineer with extensive experience in medium-voltage systems, SCADA integration, and complex plant upgrades.

Dave Nicholson, PE (25+ years)

Expert in electrical system studies, generator integration, redundancy planning, and energy optimization.

Steven Young, PE (21+ years)

SCADA and controls specialist with expertise in HMI design, system architecture, and plant-wide control system upgrades, including direct experience with Cooper City systems.

Additional discipline leaders

The team includes senior professionals supporting all required disciplines:

Pilar Doran, PE – QA/QC and design leadership

GJ Schers, PMP – advanced treatment and membrane systems expertise

Jorge Atoche, PE – process/mechanical design, permitting, and commissioning

Tao Fu, PE – mechanical systems and treatment design

Zindy Agredo, AIA – architectural and facility integration

Dave Everson, PE – structural design

Rich Morrison, PE – civil/site and utility design

Kathryn Benson, PE, CMRP – asset management and condition assessment

Anderson Mai, EIT – permitting coordination

Survey, geotechnical, and community engagement specialists supporting all project phases

Collectively, the team provides:

- **Proven management experience** on similar Florida utility projects
- **Deep technical expertise in electrical, SCADA, and treatment systems**
- **Strong familiarity with Cooper City**, Broward County, and regulatory agencies
- **Experience delivering projects within active treatment facilities** requiring complex sequencing and coordination

This combination of **leadership, technical capability, and local experience** ensures successful execution of Cooper City's electrical improvements program.

Criterion 3B: Ability to Provide Required Services within Schedule and Budget:

Evaluation of the respondent's overall management approach, including experience in scheduling projects, systems that will be used to keep track of the schedule, cost control, quality assurance, and quality control, issues, and methods employed to avoid cost overruns and project delays.

Jacobs' delivery model emphasizes schedule reliability, cost control, and proactive risk management through a structured and proven project management approach. Our team develops and maintains detailed, milestone-driven project schedules aligned with key deliverables, including the Basis of Design (BOD), 30%, 60%, 90%, and final design phases. These schedules are actively managed using CPM-based planning tools, supported by weekly internal coordination and monthly progress reporting to track performance against schedule and budget.

Jacobs utilizes integrated project control systems to ensure transparency and accountability throughout the project lifecycle. This includes real-time cost tracking, earned value monitoring, and a continuously updated change management log that identifies potential scope changes, evaluates impacts to schedule and budget, and supports informed decision-making before changes are implemented.

Our cost control approach is supported by advanced estimating tools, including **Jacobs' Replica PD Parametric Tool**, which enhances estimating accuracy and aligns design decisions with project budget constraints. Jacobs has **consistently delivered comparable projects within 1–5% of initial cost estimates and maintains net change orders below 3%**, reflecting the quality and completeness of our design deliverables.

Quality assurance and quality control are embedded throughout our process using Jacobs' BeyondExcellence™ program, which includes independent design reviews, constructability checks, and interdisciplinary coordination at each milestone. This approach minimizes rework, reduces risk, and supports timely delivery.

Risk management and delay avoidance are integral to our methodology. We proactively identify risks early in design, including outage constraints, equipment lead times, and operational impacts. Our team develops detailed phasing and sequencing plans, incorporates temporary power solutions where required, and coordinates closely with City staff to maintain continuous plant operations and avoid service disruptions.

The Jacobs–HEE team's local presence and depth of resources further support reliable delivery. With offices in Fort Lauderdale and Gainesville and access to more than 1,690 Florida-based professionals, we provide the capacity and flexibility needed to respond to project demands and maintain schedule commitments.

With extensive experience delivering complex electrical upgrades at active water and wastewater treatment facilities, Jacobs is well positioned to provide high-quality services within the project schedule and budget while minimizing risk and ensuring successful project outcomes.

Technical Proposal

Tab 5 Project Approach

Approach to Addressing Project

Approach

Project Understanding and Overview

The City of Cooper City is seeking a qualified engineering partner to provide comprehensive professional services for electrical improvements at its water and wastewater treatment facilities. These upgrades are critical to ensuring the safety, reliability, and resiliency of the City's utility infrastructure while supporting long-term operational efficiency and compliance with current codes and standards.

The scope of work includes evaluation, design, permitting, and construction support for electrical systems serving water and wastewater treatment, storage, and distribution facilities. Key elements involve modernizing power distribution systems, upgrading switchgear, MCCs, transformers, and generators, integrating standby power and SCADA interfaces, and implementing energy-efficient technologies. Additional tasks include short-circuit and arc-flash analysis, grounding improvements, and construction sequencing to maintain uninterrupted operations.

This project aligns with Cooper City's recently updated Water and Wastewater Master Plan, which prioritizes electrical system upgrades as an immediate need. The improvements will address aging infrastructure, enhance system reliability, and incorporate innovative solutions that prepare the City for future growth and regulatory requirements.

The Jacobs-HEE team understands the complexity of this effort and the importance of minimizing operational disruptions. We will leverage advanced modelling tools, proven outage sequencing strategies, and best practices in electrical engineering to deliver a robust, sustainable solution. By combining Jacobs' global expertise with HEE's local knowledge and experience, the Jacobs-HEE team is uniquely positioned to provide a seamless, full-service approach that meets the City's objectives for safety, resiliency, and long-term performance.

Purpose and Commitment

Cooper City Utilities (City) operates a 7.0 MGD water treatment plant and a 3.1 MGD wastewater treatment plant at the George A. Haughney Plant site. The City is committed to delivering high-quality water and wastewater treatment, collection, and distribution services to protect public health, welfare, and safety. Reliable and operable electrical power is essential to sustaining treatment processes at both facilities.

Like many South Florida municipalities, the City faces aging infrastructure requiring renewal, replacement, and upgrades. The Jacobs-HEE Team understands these needs and is prepared to provide consulting engineering services to evaluate and address critical electrical power distribution system renewal, upgrades, and replacements. These challenges are ongoing and evolving; the Jacobs-HEE Team is committed to serving as a trusted, long-term partner and an extension of City staff to help the City plan and execute each improvement.



Jacobs-HEE Electrical Engineering Delivery

The Jacobs-HEE Team delivers a unified, locally grounded strategy tailored to Cooper City's needs. Our assessment-driven approach begins with a rigorous Basis of Design (BOD) that validates and, where necessary, refines City's 2024 Water and Wastewater Master Plan, ensuring design decisions reflect current operating realities, safety requirements, and future growth. This approach is rooted in a comprehensive understanding of the City's infrastructure challenges and a commitment to delivering practical, cost-effective solutions. Because our team is truly local with deep familiarity and regional understanding of issues common to neighboring cities such as Pembroke Pines, Fort Lauderdale, Sunrise, and Hollywood; we bring fresh eyes informed by hands-on experience solving similar challenges across South Florida. These include aging infrastructure, power availability constraints, and energy efficiency goals, as well as navigating FPL service limitations and demand-response impacts.

Our process emphasizes collaboration with City staff, detailed field assessments, and transparent communication to ensure every recommendation reflects operational realities and future growth needs. We will begin with a comprehensive condition assessment of the entire electrical system. The BOD will define sequencing and phasing using proven outage and cutover plans to minimize disruption. Its findings will guide design milestones at 30%, 60%, 90%, and 100%, as well as the permitting and bidding aspects of the project, supported by transparent OPCCs, risk registers, and decision checkpoints. By combining technical rigor with stakeholder engagement and leveraging Jacobs-HEE's scalable delivery tools, plant-specific knowledge, and regional experience- we accelerate progress, and meet the City's goals. **The result is a consensus-built roadmap that addresses electrical operational challenges, enhances resiliency and operability, and delivers a fit-for-purpose solution -on time, on budget, and ready for future regulatory and capacity demands.**

In addition, as requested by the City, the Jacobs-HEE Team will deliver an early work package to refurbish the existing 23 kV utility main and generator breakers and procure a remanufactured spare. This critical reliability improvement will be executed in parallel with the development of the BOD, ensuring immediate progress while long-term design advances.

Basis of Design Report and Condition Assessment

The Jacobs-HEE Team will prepare a Basis of Design Report (BOD) covering the George A. Haughney Plant and Pine Island Repump Station. This report will serve as the foundation for design decisions and will include:

Condition Assessment	System Evaluation & Alternatives	Construction Sequencing & Phasing	Cost & Risk Analysis
A comprehensive evaluation of existing electrical infrastructure will be performed to determine the age, reliability, and operational status of critical components. This includes switchgear, breakers, MCCs, transformers, panelboards, emergency generators, VFDs, ATS, instrumentation, controls, and SCADA systems. The assessment will identify deficiencies, risks, and compliance gaps (e.g., NFPA 70E arc-flash labeling) and prioritize upgrades based on safety, reliability, and lifecycle considerations.	The BOD will analyze options for replacing the existing 23kV service with multiple 480V services, generator configurations, grounding improvements, and surge protection upgrades. It will also address temporary power needs during construction.	Recommendations will include phased implementation strategies to minimize operational disruptions.	High-level cost opinions, risk assessments, and power purchase rate implications will be documented.

Draft and final versions of the BOD will be presented in workshops with City staff to review findings, gather feedback, and build consensus on budgeting, phasing, and sequencing.

Design Development and Milestones	Deliverables
Following consensus on BOD recommendations, the team will advance design development for the agreed improvements, including phasing and sequencing. Planned milestones: > 30% drawings & specifications + opinion of probable construction cost (OPCC) > 30% design review meeting with City staff > 60% drawings & specifications + OPCC > 60% design review meeting with City staff > 90% drawings & specifications + OPCC > 90% design review meeting with City staff > 100% (Final) drawings & specifications + OPCC > Presentation to City staff describing the final project	1 Basis of Design Report (draft and final) with condition assessment, alternatives, phasing, sequencing, OPCCs, risks, temporary power needs, and power purchase rate analysis.
	2 Technical Memoranda for: Grounding and lightning protection evaluation; and Pine Island Road Pump Station system evaluation.
	3 Design Packages at 30%, 60%, 90%, and 100% completion (drawings, specifications, and OPCCs).
	4 Protective Studies: Short-circuit, coordination, and arc-flash, with labeling.
	5 Presentations to City staff at key milestones.

Permitting Expert Partnership

The Jacobs-HEE team views permitting as a collaborative effort with the City and regulatory agencies, built on trust, transparency, and proactive engagement. We will initiate pre-application meetings to share work plans and schedules, address questions, and demonstrate that improvements are well-planned and compliant, fostering confidence and expediting reviews. By treating regulators as partners from the outset, we create flexibility to negotiate permit changes when needed.

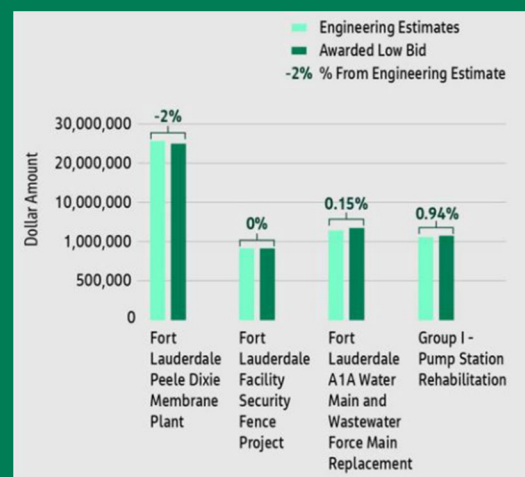
Our team will prepare and submit all required applications, technical drawings, and supporting analyses in accordance with regulatory entities and environmental standards, while documenting outcomes in to formalize responsibilities and expectations. Throughout the process, we will maintain a permitting log and provide regular updates to City staff, ensuring transparency and alignment with project milestones.

Bidding Excellence Through Partnership

The Jacobs-HEE team will work closely with Cooper City to deliver a transparent and competitive bidding process that secures qualified contractors and ensures value for the City. We will prepare comprehensive bid packages that reflect the Basis of Design recommendations, technical specifications, and phasing plans, while incorporating clear scopes and OPCCs. Our team will assist with contractor prequalification, focusing on experience with complex electrical systems, SCADA integration, and safety compliance. Once bids are received, we will perform detailed evaluations for accuracy, completeness, and cost-effectiveness, providing comparative summaries and recommendations to City staff. Throughout the process, we will maintain open communication, support negotiations, and ensure alignment with project objectives, timelines, and budget.

Construction Cost Estimating

Our team's construction estimator is Erika Smith who brings comprehensive experience in successfully estimating probable construction costs of the electrical improvements at the WTP and WWTP for Cooper City. With over 25 years of experience in cost estimating, she specializes in developing accurate conceptual, budget, and final construction cost estimates. Our cost estimating history below demonstrates the accuracy we achieve with our proven techniques.



Background and Master Plan Context

Building on the project framework and deliverables outlined in the previous sections, it is essential to ground the design approach in the City's long-term planning objectives. The 2024 Water and Wastewater Master Plan serves as the foundation for this effort, providing a clear roadmap of priority improvements and system upgrades. By aligning the proposed electrical power distribution enhancements with the Master Plan recommendations and other considerations, the Jacobs-HEE Team ensures that every solution not only addresses current operational challenges but also supports future capacity, reliability, and regulatory compliance. The following section summarizes key findings and recommendations from the Master Plan that will guide the Basis of Design and subsequent implementation phases.

The City's 2024 Water and Wastewater Master Plan Update identified multiple electrical system improvements at key utilities locations. Recommended upgrades at the George A. Haughney Plant include:

- Refurbishment of the 23 kV main and generator power breakers in the existing 23 kV main distribution switchgear.
- Evaluating elimination of the single 22.8 kV utility feed and 23 kV main switchgear in favor of multiple (possibly three) 480 V utility services.
- Designing and installing new emergency standby diesel generators, and reapplying the existing 2 MW, 480 V emergency diesel generator to one of the new 480 V services.
- Evaluating and designing diesel fuel storage and transfer systems.
- Designing new power distribution switchgear and transfer schemes for each 480 V service.
- Constructing underground duct banks, manholes, and installing conductors.
- Evaluating and upgrading plant grounding, surge protection, and lightning protection systems.
- Evaluating and upgrading electrical distribution and pump control systems at the High Service Pump Station, including VFD and solid-state starter condition and age.
- Evaluating and designing upgrades to electrical power distribution and controls for the Blower Room.
- Evaluating existing MCCs, transformers, panelboards, emergency generators, VFDs, ATS, instrumentation, controls, and SCADA.
- Performing short-circuit, protective device coordination, and arc-flash studies.

At the Pine Island Road Pump Station, the Master Plan recommends evaluating normal and emergency power distribution systems and designing reliability upgrades as needed.

Utility Service Strategy (FPL)

The Master Plan recommends replacing the single 23 kV service and main switchgear with three (3) new 480 V, three-phase services to:

- Membrane Water Treatment Plant
- Wastewater Treatment Plant – Blower Building
- Wastewater Treatment Plant – Effluent Pump Building and Headworks Building

The BOD will evaluate this approach and the potential consolidation of two services where feasible. The Master Plan also recommends reapplying the existing outdoor enclosed 2 MW standby diesel generator to one service and designing additional emergency diesel generators for the remaining services.



Figure 5.1. George A. Haughney Plant 23 kV main and generator power breakers refurbishment in the existing 23 kV main distribution switchgear



Figure 5.2. George A. Haughney Plant Transformers

The facility currently participates in FPL's Commercial/Industrial Load Control (CILC) program, which offers financial incentives for reducing demand during peak periods by switching to on-site generation. However, FPL has discontinued new enrollments; additional services typically do not qualify for CILC. The Jacobs-HEE Team will analyze power purchase cost impacts and coordinate with FPL to determine eligibility for the new services.

EPA Emissions and Generator Classification

Participation in financial incentive programs such as CILC can affect EPA generator classification. Generators used for demand-response are considered non-emergency, requiring additional emissions controls (e.g., exhaust after-treatment, urea injection systems). Services not on such programs can classify generators as emergency standby, avoiding these requirements. The BOD will compare costs for both configurations.

Diesel Fuel System Impacts

Additional emergency diesel generators will require expansion or relocation of the existing above-ground storage tank and associated fuel transfer systems. This will be evaluated in the BOD.

Grounding and Lightning Protection

The Master Plan calls for evaluation of grounding and lightning protection systems. Visual inspections and third-party testing are recommended, with findings documented in a separate technical memorandum.

Pine Island Road Pump Station

The Master Plan identifies evaluating the adequacy of the backup generator and Automatic Transfer Switch (ATS) at the Pine Island Road Pump Station. The Jacobs-HEE Team will prepare a separate technical memorandum and recommends evaluating the entire station electrical power distribution system.

Site Observations and Existing Conditions

During the mandatory site visit, the existing 23 kV outdoor switchgear (1SWGR) appeared in poor condition. The main and generator breakers are obsolete Westinghouse Power-Vac VCP-W models that are no longer manufactured; maintenance/refurbishment is required for continued proper operation.

Refurbished breakers are available from aftermarket vendors. To maintain operations during refurbishment, the Jacob-HEE team recommends purchasing an aftermarket breaker while the original is sent to Eaton for refurbishment. Minor modifications may be needed to integrate aftermarket breakers with existing control wiring.

These findings reflect the Jacobs-HEE Team's proactive approach to identifying gaps, validating assumptions, and enhancing the Master Plan to ensure a complete and constructible design solution.

High Service Pump (HSP) Upgrades

The City requested evaluation of High Service Pumps (HSP) No. 4 and No. 5, including pump, motor, and variable frequency drives (VFDs) for upgrade and replacement. This evaluation will be included in the BOD.

Electrical System Resilience Assessment and Adaptation Plan at JEA

In 2023, Jacobs performed the JEA Electric System Resilience Assessment and prepared the Adaptation Plan, to identify and reduce risk, enhance service reliability, and build resilience against severe weather and other identified natural, climate and human caused threats in the form of shocks and stressors. The assessment was conducted for JEA's electric generation and distribution system including sub-stations and service transformers.

Cost savings resulted from reduced cost of ownership of critical infrastructure through cost avoidance by positioning infrastructure to minimize impact and damage from severe weather events and corrosive conditions. This approach will increase the service life of these assets further reducing the operational costs associated with premature asset failure and replacement.

Figure 5.3. JEA Electrical System Resilience Assessment and Adaptation Plan



Figure 5.4. George A. Haughney Plant Diesel Fuel Tank

System Studies and Arc-Flash Labeling

No electrical distribution equipment displayed arc-flash labels during the site visit. NFPA 70 and NFPA 70E require short-circuit, device coordination, and arc-flash studies, with compliant labeling. The Jacobs-HEE Team recommends adding this task to the project scope and extending it to the Pine Island Road Pump Station.

Project Initiation and Stakeholder Engagement

Upon award, the Jacobs-HEE Team will:

- Review existing as-built drawings, O&M manuals, and available testing reports.
- Conduct field observations and verifications and collect field data.
- Interview Plant Operations and Maintenance personnel to identify challenges, short- and long-term goals, and expectations for the electrical power distribution systems.

Operational Continuity Through Strategic Electrical Upgrade Planning

The team will employ a proactive, operations-focused methodology designed to maintain plant functionality while executing complex electrical system upgrades. By combining early field investigations, detailed shutdown planning, and rigorous safety coordination, the team will ensure that electrical improvements, including refeeding power to the Headworks Building, are completed with minimal disruption to plant operations. This structured approach will prioritize safety, efficiency, and continuous communication, resulting in a seamless implementation process that supports the facility's operational needs at every stage.

Coordinated Electrical Upgrade Execution for Maximum Plant Uptime

- **Minimize operational disruption** by implementing a safe, efficient, and fully coordinated strategy for all electrical system upgrades.
- **Conduct early, targeted field investigations** to establish optimal construction and shutdown sequences.
- **Develop operational continuity strategies** that will allow the plant to remain in full or reduced-capacity operation throughout the electrical improvements.
- **Perform comprehensive field analysis** to identify systems requiring shutdowns and determine the safest, least disruptive execution approach.
- **Coordinate closely with plant personnel**, providing advance notice for each planned outage, including affected equipment, duration, and temporary measures required to maintain operations.
- **Ensure safety and regulatory compliance** by coordinating with the contractor on proper lock-out/tag-out procedures, PPE usage, and adherence to OSHA and NFPA 70E standards.
- **Develop detailed shutdown-minimization methods** during the design phase, including partial equipment replacement, installation of new equipment adjacent to existing systems, staged load transfers, and other phased-construction techniques.
- **Design necessary temporary power solutions**, such as generators, temporary distribution panels, conduit, and wiring, to ensure seamless transitions during equipment replacement or outages.
- **Maintain maximum operational continuity** through a future-focused, safety-driven, and operations-centered methodology that ensures transparency and consistent coordination with facility staff.

The Jacobs-HEE Team Experience and Readiness

Our Team brings extensive experience with the scope of services identified for this project. The Jacobs-HEE are the design engineers of the 23 kV breaker and switchgear modifications at the **George A. Haughney Plant** and led electrical power distribution for the **1996 Water Treatment Plant Expansion (Membrane)** and **2002 Phase 2 Membrane Plant Expansion**. Our understanding of the plant's electrical distribution systems enables beginning work without a learning curve and deliver timely, successful outcomes aligned with City processes, procedures, and expectations.

Our vision is to deliver a modern, resilient, and efficient electrical infrastructure for Cooper City's water and wastewater treatment facilities that ensures uninterrupted service, operational safety, and long-term sustainability. This project will set a benchmark for reliability, compliance, and adaptability, enabling Cooper City to meet current needs and future challenges with confidence.

Figure 5.5. Fort Lauderdale MCC Replacement at GTL WWTP



Cost Containment, Minimizing Change Orders, and Project Completion within Budget

At Jacobs, accountability drives repeat business, amounting to approximately 95% of our workload. Accountability to us means listening to our clients' needs and suggestions, seeing them in context, and communicating early and often, pulling in the right and best qualified people for a deliverable within scope, schedule, and budget. Quality management is not just a process at Jacobs; it is the foundation of our culture and the basis for our operating policies and governing values.

Clients rely on our focus on quality which translates into minimizing the need for rework reducing schedule overruns, improving cost estimating accuracy, and providing safety compliant electrical designs. We have consistently delivered designs of WTP and WWTP projects with a net change order amount of less than 3% of the original construction bid price. This low change order percentage is indicative of our long history delivering projects with a high level of detail, completeness, and accuracy, requiring minimal revisions. We are also proud of developing accurate opinion of construction cost estimates at preliminary and final design deliverable stages, evident in the table below. This illustrates our track record of understanding material, labor, and general construction cost trends.

Project Name bid - completion	Client	Original Estimate	Final Construction Cost	Variance
GTL WWTP MCC Replacement	Fort Lauderdale, FL	\$5.0 Million	\$4.9 Million	2%
Membrane NF WTP	NSID, FL	\$20 Million	\$19.4 Million	3%
Green Meadows RO/IX WTP	Lee County, FL	\$72.4 Million	\$73 Million	-1%
Nanofiltration Rehab and Improvements	Collier County, FL	\$3.01 Million	\$3.1 Million	-5%
North Miami Beach NF/RO Expansion	North Miami Beach, FL	\$9.3 Million	\$9.7 Million	-4%
Dixie Wellfield Improvements	Fort Lauderdale, FL	\$8.9 Million	\$8.8 Million	1%
Peele-Dixie Membrane WTP Improvements	Fort Lauderdale, FL	\$26.5 Million	\$26.0 Million	2%
GTL WWTP Pump Station Upgrades	Fort Lauderdale, FL	\$7.20 Million	\$7.23 Million	-0.4%

Meeting Budgetary Goals. Our processes for managing design costs incorporate industry's best practices providing a clear picture of progress at any point in a project. Based on our extensive and strong partnership with you, our project managers know your policies, expectations, and your individual project management preferences. Cost control processes will proactively manage fees and provide for advanced planning. Mauricio and Raul will monitor deliverables progress to accurately assess overall project progress and identify work plan variances early on. Financial information is updated weekly, allowing real-time tracking of costs and baseline progress, which will be reported to Cooper City monthly.

Cost Control for Engineering Studies and Design. Project costs are developed in coordination with Cooper City during the preparation of the task authorization. Our in-house tools provide weekly charges for a work authorization to the project manager and monthly updates on status of deliverables and earned value. Jacobs maintains a continuously updated shared change log that identifies potential scope changes with their associated impact on design schedule and budget, as well as estimated construction cost before making changes. Once a decision is reached, the change log documents the decision and is the basis for updating the overall project schedule, budget, and estimated construction cost.

Cost control includes not only managing the costs for engineering services, but also designing to budget to:

- Verify the City is aware of the engineering cost consequences of various alternatives or preferences.
- Provide advice that enables designers to arrive at practical and balanced designs within budget
- Maintain expenditures within the cost limit approved by the City.

By focusing on the above objectives, our team will work with you to ensure that costs associated with a decision are evaluated for their effects on engineering and construction costs prior to the commencement of work. Below is a list of recent examples where projects were delivered to our clients within budget and schedule.

Client	Project	Project Manager	On Budget	On Schedule
City of Hollywood	Water and Wastewater Asset Management	Mauricio Lara, PE	✓	✓
City of Fort Lauderdale	GTL WWTP MCC Replacement	Raul Alfaro, PE	✓	✓
City of Sunrise	Sawgrass WWTP Train A Secondary Treatment	Mauricio Lara, PE	✓	✓
City of Boynton Beach	PFAS Evaluation of East and West Wellfield	Raul Alfaro, PE	✓	✓
Broward County	Reuse Plant Expansion Construction	Mauricio Lara, PE	✓	✓
City of Deerfield Beach	Design Carbon Dioxide Storage and Feed System	Raul Alfaro, PE	✓	✓
City of Sunrise	Sawgrass WWTP HLD Reuse Facility	Mauricio Lara, PE	✓	✓
City of Boynton Beach	Injection Well Operating Permit Renewal	Raul Alfaro, PE	✓	✓

Schedule

The project schedule establishes a clear roadmap for delivering the electrical power distribution system upgrades within the allotted 480-day timeframe following the Notice to Proceed. It is structured to ensure thorough planning, stakeholder engagement, and phased design development while maintaining alignment with the City's operational priorities. The schedule begins with a three-month Basis of Design (BOD) phase, which includes comprehensive condition assessments and system evaluations to define the project scope and strategy. This is followed by sequential design milestones - 30%, 60%, 90%, and 100%, allowing for detailed engineering, technical reviews, and incorporation of feedback. The final month is dedicated to completing 100% design documents and preparing bid packages. This phased approach balances rigor and efficiency, ensuring timely delivery of a high-quality, cost-effective solution that meets the City's long-term infrastructure goals.

High-Level Timeline (Phases & Milestones) During Design Phase

Early Reliability Improvements

- Refurbish 23 kV utility main and generator breakers
- Procure remanufactured spare
- Execute outage/cutover plan for breaker work
- **MILESTONE: EARLY RELIABILITY IMPROVEMENTS WORK PACKAGE COMPLETE (END OF MONTH 2)**

Basis of Design (BOD)

- Condition assessment of electrical infrastructure
- System evaluation & alternatives
- Construction sequencing & temporary power strategies
- Cost & risk analysis
- Stakeholder workshops (draft & final BOD)
- **MILESTONE: BOD COMPLETE**

30% Design Development

- Initial drawings & specifications based on BOD
- Preliminary OPCC
- **MILESTONE: 30% DESIGN SUBMITTAL**

60% Design Development

- Detailed design advancement
- Technical memoranda (grounding, lightning protection, Pine Island Pump Station)
- Protective studies plan
- Permitting pre-application meetings
- **MILESTONE: 60% DESIGN SUBMITTAL**

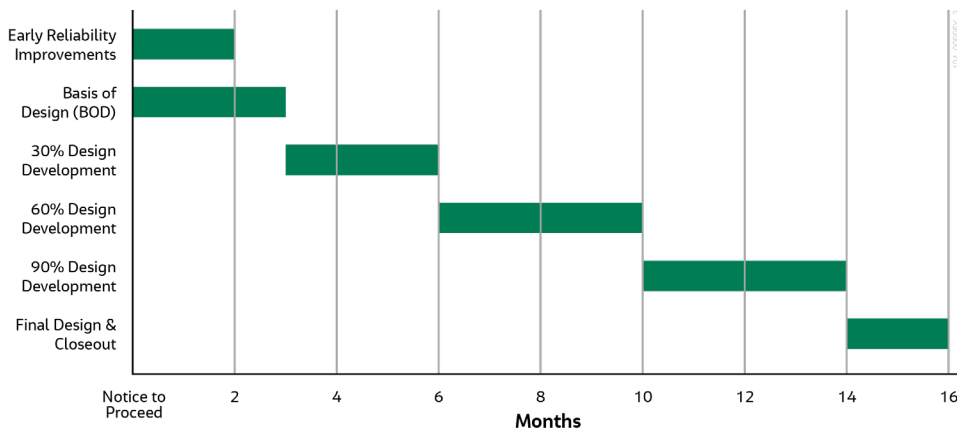
90% Design Development

- Incorporate review comments
- Complete arc-flash, short-circuit, and device coordination studies
- Permitting submittal
- **MILESTONE: 90% DESIGN SUBMITTAL**

Final Design & Close out and Additional Services

- Final drawings, specifications, OPCC
- Bid package preparation
- Presentation to City staff and/or City Commission
- **MILESTONE: 100% FINAL DESIGN / PROJECT COMPLETION**
- Additional services: bidding support & SDCS.

Exhibit 5-1. Preliminary Project Schedule



Jacobs LEED Experience & Implementation Approach

Jacobs brings deep expertise in delivering sustainable, resilient, and technically advanced electrical infrastructure upgrades for water and wastewater utilities. Our approach aligns directly with Cooper City's goal for a **modern, energy-efficient, and robust electrical system** that supports long-term operational sustainability, as outlined in the RFQ requirement that all upgrades *"shall be energy efficient and incorporate innovative emerging technologies."*

Jacobs has a proven record integrating LEED principles into complex utility environments, applying sustainability driven electrical engineering practices that enhance system performance, reduce energy consumption, and strengthen operational resilience. Our methodology emphasizes seamless implementation, thoughtful sequencing, and careful system coordination - critical elements when upgrading essential water and wastewater infrastructure while maintaining continuous operations.

For Cooper City, Jacobs will integrate LEED aligned sustainable design practices across the electrical improvements, including:

- **Energy optimization** through high-efficiency equipment, advanced controls, and improved distribution topology
- **Resilience strategies** such as equipment elevation, flood and erosion mitigation, grounding system upgrades, and nature-based solutions, all explicitly reflected in the RFQ scope
- **Support for LEED water efficiency and Sustainable Sites credit pathways** by reducing electrical losses, improving system reliability, and strengthening readiness for severe storm events
- **Commissioning and performance verification**, mirroring LEED Enhanced Commissioning best practices to ensure long-term reliability, operational efficiency, and reduced lifecycle costs

Jacobs' approach will help Cooper City advance its sustainability goals **even if no individual building seeks formal LEED certification**. By integrating LEED principles - including energy efficiency, resource stewardship, site resilience, and modernized electrical design, Jacobs ensures the City receives an upgraded electrical system that is modern, durable, and aligned with best-in-class sustainability frameworks.

Delivering High-Performance, LEED-Certified Buildings Across Florida

Jacobs has delivered numerous LEED-certified and LEED-aligned facilities throughout Florida, spanning federal, municipal, higher education, military, commercial, and aviation sectors.

Jacobs delivers high-performance, LEED-certified facilities through a structured, full lifecycle sustainability approach. With approximately 500 LEED Accredited Professionals and more than 375+ certified projects totaling over 70 million square feet, sustainability is embedded into our planning, design, and construction management practices.

Our teams include dedicated professionals responsible for administering and managing the LEED certification process from early concept through construction and closeout. We guide clients through local code compliance and third-party rating systems with deep expertise in credit strategy, documentation management, and agency coordination.

Florida LEED Certified Projects

In Florida, Jacobs has delivered a significant number of **LEED-certified projects**, they demonstrate our strong alignment with **LEED sustainability priorities** and our proven capability to deliver high-performance, environmentally responsible solutions - with representative project highlights listed below:

Project	Location	Certification
Benjamin P. Grogan & Jerry L. Dove Federal Building	Miramar	LEED Platinum
GSA Ft. Pierce United States Federal Courthouse	Fort Pierce	LEED Gold
Jacobs Orlando Office Renovations	Orlando	LEED Silver
Confidential Client Revitalization Project	Cape Canaveral	LEED Silver
Confidential Client Buildings 227, 230, 232	Melbourne	LEED Silver
University of Florida East Campus Data Center	Gainesville	LEED Certified
Florida Air National Guard	Cape Canaveral & Jacksonville	LEED Silver
Sustainability & Resiliency Ordinance Implementation	City of St. Petersburg	-

Workload/Availability of Team Members

Our team understands that timely completion of projects is critical, and we commit to making the resources available to deliver your projects on budget and on time. Team members were selected for their experience on relevant similar projects, quality service reputation, and ability to be committed to this project for its duration.

As Broward County community members, we are invested in providing efficient, technically superior water/wastewater plant electrical engineering services. To ensure resource availability, we've built redundancy into our staffing plan. Exhibit 5-2 outlines team availability over the next 16 months to support this project, and our organization chart in **Tab 3 Table of Organization** identifies leads for each category to guarantee timely execution. Project Manager Mauricio Lara, PE, PMP, along with the Discipline leads will work directly with the City on work assigned and coordinate with our Florida-based team, ensuring appropriate staff are available to meet any project needs, and secure additional resources that may be required. In addition to the resources assigned to this team, our firm has a broad range of multi-disciplinary staff located throughout Florida (more than 1,690 in the state, with over 1,000 dedicated to infrastructure projects). This depth of staff demonstrates our capacity to deliver the project assigned in a timely, cost-effective manner, regardless of the specialized skills or number of staff members that may be required.

Jacobs brings a dedicated team led by seasoned project manager and engineer **Mauricio Lara, PE**, whose extensive experience delivering complex water, wastewater, and civil infrastructure projects directly aligns with the needs of the City's Professional Engineering Services for Water and Wastewater Plant Electrical Improvements project. **Mauricio has successfully executed multiple projects of similar scale and complexity, including treatment facilities, pump stations, reclaimed water systems, and major utility networks, many involving electrical systems such as power distribution upgrades, switchgears, generators, motor control centers, standby power systems, SCADA improvements, instrumentation networks, and advanced automation and controls integration.** His background spans engineering, construction oversight, asset management, condition assessment, and digital transformation initiatives - strengthening utility operations, modernizing processes, and improving system reliability and resilience.

Commitment to this Contract and Cooper City

Jacobs is committed to having the right project team members available when City of Cooper City needs us for the Water/Wastewater Plant Electrical Improvements Program. Our leadership team recognizes the importance of this program, and we value our long history of working with the City of Cooper City. Having a deep bench of technical resources ensures you we will be there every time you need us to complete all elements of this project.

Our Project Manager and Deputy Project Manager believe that communication, responsiveness, and delivering high quality products are key to effective project delivery.

We are only a phone call, text, or email away.



Mauricio Lara, PE
954.309.1380
mauricio.lara@jacobs.com



Raul Alfaro, PE
786.709.1119
raul.alfaro@jacobs.com

Exhibit 5-2. Proposed Team Workload/Availability

Team Member	Available
Mauricio Lara, PE, PMP	70%
Raul Alfaro, PE, ENV SP	50%
Didier Menard, PE	25%
Nelliann Perez, PhD, PE	50%
Marc Goslow, PE	90%
Thien Win, PE, LEED AP (HEE)	50%
Mark Luther, PE (HEE)	60%
Dave Nicholson, PE	50%
Pilar Doran, PE	30%
GJ Schers, PMP	30%
Steven Young, PE	50%
Jorge Atoche, PE	50%
Zindy Agredo, PE, AIA, ARA, LEED AP BD+C	50%
Dave Everson, PE	40%
Rich Morrison, PE	50%
Kathryn Benson, PE, CMRP	50%

Team Member	Available
Anderson Mai, EIT	70%
Brandon Russakis, PE	40%
Cassandra Tomerlin, PE	20%
Randy Boe, PE	30%
Nick Easter, PE	50%
Anderson Ganda	70%
Steve Yousseff, EIT	70%
Adam Dolsak, RA, AIA, NCARB	40%
Sarah Marrs, PE, LEED Associate, ASLA	50%
Clement Anson, PE	40%
Marc Cohen, PE	40%
Jose Ramos, PE	40%
Juliana Gomez-Ortega, EIT	70%
Matt Crowley, PE	40%
Christine Rafferty, EIT	70%

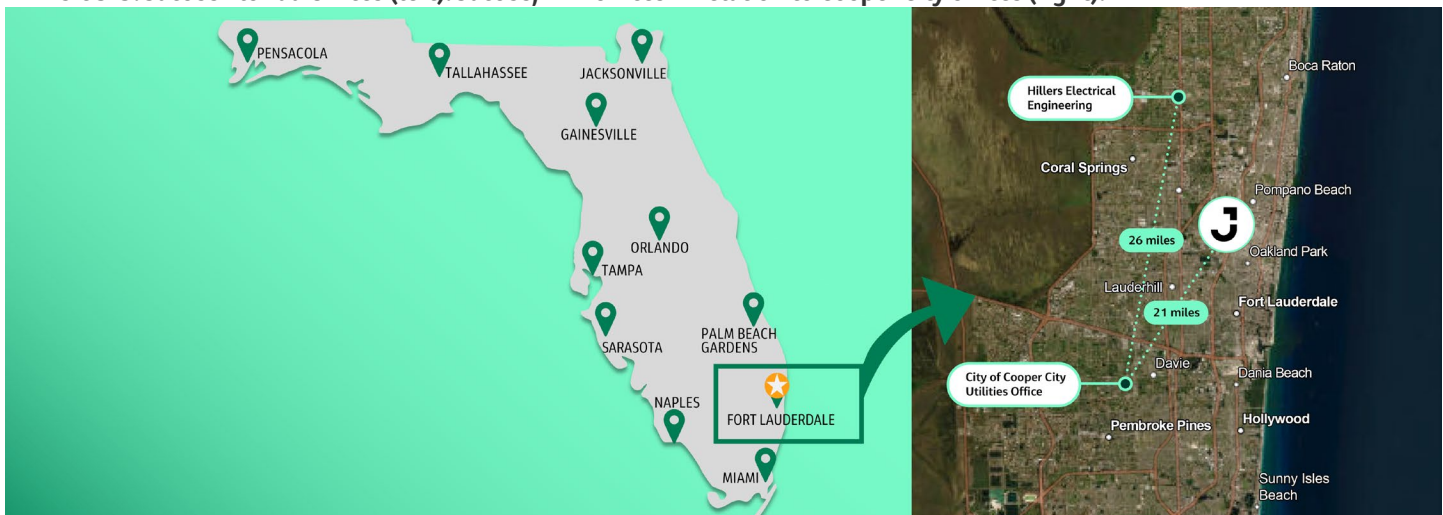
Local Facilities, Capabilities and Resources



While Jacobs is a global leader in project delivery headquartered in Dallas, our focus for this contract is firmly on local responsiveness and accessibility. Your project will be managed from our Fort Lauderdale office (pictured at left) at 550 West Cypress Creek Road, where many of our key staff are based less than 21 miles of your Utility office and Water/Wastewater Treatment plants. This proximity ensures direct communication and rapid response to the City's needs.

To complement our local presence, we will leverage resources from our other Florida offices, including our regional design center in Gainesville. This center provides specialized technical expertise and integrates the latest technologies and best practices from across the country, giving the City access to unparalleled in-state capabilities. Our combination of local management and statewide resources ensures efficient, high-quality delivery for every task under this contract. This offers the City access to unparalleled resources in-state. Our design center specializes in providing the latest technology and best practices from around the country to our clients in Florida.

Exhibit 5-3. Jacobs Florida Offices (left). Jacobs, HEE offices in relation to Cooper City offices (right).



Technical Proposal

Tab 6 Experience & Qualification of Firm

Experience, Qualifications and Reference Form - Summary Table

Firm Name	Role	Experience Form Submitted	License Attached	Meets Minimum Requirements	Meets Preferred Requirement
Jacobs Engineering Groups Inc.	Prime	Yes	Yes	Yes	Yes
Hillers Electrical Engineering, Inc.	A/E Sub-Consultant	Yes	Yes	Yes	Yes
Longitude Surveyors	A/E Sub-Consultant	Yes	Yes	Yes	Yes
Wirx Engineering	A/E Sub-Consultant	Yes	Yes	Yes	Yes
Dickey Consulting Services	Non-A/E Sub-Consultant	Yes	Yes	Yes	Yes

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer) and Hillers Electrical Engineering (HEE), Inc. (A/E sub-consultant)

Reference Project Name/Address: City of Fort Lauderdale MCC Replacement at GTL WWTP

Address: City of Fort Lauderdale, 949 NW 38th Street Fort Lauderdale, FL 33309

Name(s) and role(s) of key personnel working on this reference project: Raul Alfaro (Project Manager); Mark Luther (HEE Electrical); Thien Win (HEE Electrical)

Reference Project Description: Jacobs has supported Fort Lauderdale's wastewater infrastructure for over 30 years, providing comprehensive services from planning and design to permitting, financial support, and construction management. In partnership with HEE, Jacobs delivered major electrical upgrades at the **GTL Wastewater Treatment Plant (WWTP)** including the design of the replacement of various MCCs and substations, and an updated Power System Study, and received an "Exceptional" performance rating from the City for the project.

Scope of Service Provided: The scope included:

- Replacement of MCCs 3, 4, 4A, 5, and 6
- Replacement of substations 3, 4, 5, and 6
- Replacement of associated power, signal, and control wiring and raceway systems
- Integration with external devices and associated process control systems
- Completion of an updated Power System Study incorporating switchgear, substations, switchboards, MCCs, and panelboards installed, modified, or repowered

Services encompassed multidisciplinary engineering, including electrical, I&C/SCADA, civil, structural, and process coordination, along with construction phase support.

Professional Fees: \$400K (Design)

Project Start Date: 03/2018

Project Completion Date: 02/2022

Construction Start Date: 08/2020

Construction Completion Date: 02/2022

A: Project Construction Cost: \$4.9M **B: Professional Fees:** \$400K **Total Project Cost (A+B):** \$5.3M

Reference Company Name: City of Fort Lauderdale **Reference Name:** Miguel Arroyo, Water & Wastewater Treatment Manager

Reference Phone Number: 954.828.7806

E-mail: marroyo@fortlauderdale.gov

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing evaluation, design, and replacement of **electrical power and distribution systems at an active municipal wastewater treatment plant**, including MCCs, substations, and power system upgrades.
- Direct involvement of qualified personnel in a Project Manager supervisory capacity (Raul Alfaro – Project Manager), with responsibility for design coordination, schedule, and delivery.

Preferred Experience Criteria Met:

- Experience serving as **General Wastewater A/E Consultant** for a Florida municipality (City of Fort Lauderdale), providing long-term programmatic support and infrastructure improvements.
- Experience delivering **electrical resiliency and reliability upgrades** for operating treatment facilities, including:
 - MCC and substation replacement
 - Power distribution modernization
 - Standby power coordination and redundancy
 - Comprehensive power system studies (short circuit, coordination, arc flash)
- Experience performing upgrades within active treatment facilities, requiring detailed **sequencing of construction activities** and **Maintenance of Plant Operations (MOPO)** planning to maintain uninterrupted service.
- Demonstrated experience **working collaboratively with subconsultants**, including Hillers Electrical Engineering (HEE), ensuring seamless coordination and efficient project delivery.
- Extensive experience working within Broward County, including coordination with local utilities and regulatory agencies, supporting efficient permitting and compliance.

This project is directly comparable in size, complexity, and operational constraints to the Cooper City Water and Wastewater Plant Electrical Improvements Program and demonstrates the team's ability to successfully deliver similar improvements with minimal disruption to ongoing operations.



Figure 6.1. Fort Lauderdale MCC Replacement at GTL WWTP



Figure 6.2. MCC in Generator Building at GTL WWTP

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer)

Reference Project Name/Address: SCADA and Electrical Retrofit Designs at Joe Mullins Reverse Osmosis (RO) WTP and John A. Buckley Surface Water Treatment Plant (SWTP)

Address: City of Melbourne, 900 E Strawbridge Avenue, Melbourne, FL 32901

Name(s) and role(s) of key personnel working on this reference project: GJ Schers (Project Manager); Pilar Doran (Design Manager); Steve Young (SCADA Lead); Raul Alfaro (Process Engineer)

Reference Project Description: The City of Melbourne operates two primary water treatment facilities - **John A. Buckley Surface Water Treatment Plant (SWTP)** and **Joe Mullins Reverse Osmosis (RO) Water Treatment Plant (WTP)**. Together, these facilities provide a reliable supply of clean drinking water for the community. Jacobs provided SCADA and electrical master planning, design, and retrofit services for John A. Buckley SWTP and Joe Mullins RO WTP.

SCADA and Electrical Design and Master Plan for SWTP: Jacobs managed development of the SCADA Master Plan for the City's SWTP including condition assessment services. The \$4.5 million SCADA budget included replacement of the PLC control system and HMI computer system, development of control system hardware and software standards, development of advanced automation control narratives, detailed wiring design, facility automation SCADA programming, and turn-key design-build services which included construction, integration, start-up and commissioning. The design included 24 PLCs and 6 HMIs. Programming was implemented using object-based programming and integration with both the PLC and HMI systems. Equipment and process control included high service pumps and motors, raw water pumps, six surface water filters, backwash supply, de-oxygenation, blending CT, filtrate pump station, Actiflo, transfer pumps, ground storage tank, chlorine, ammonia, sodium hydroxide, ferric sulfate, polymer, fluoride, south pond pump station, CO2 panel, and ozone system. Standards were developed for the SCADA PLC, HMI, Historian, and SCADA hardware improvements, which are being used for all projects in the program. PLC and HMI standards embraced object code development to yield savings in code development, increase reliability, and simplify troubleshooting. Jacobs developed control system narratives to program the SWTP and unit process areas, including advanced automation program schemes to simplify operations, increase water quality, and achieve cost savings.

SCADA and Electrical Design and Master Plan for RO WTP: Design elements included detailed control panel layout, grounding, surge protection, I/O point layout, control network design, product selection and specification, system interface requirements, standardization of products, use of virtual servers, redundancy, thin clients, UPS and power design, network racks, large screen monitor design, cable management plan, cable routing, fiber optic improvements, and design documentation. The control system included seven PLCs, four HMIs, and two panel mounted HMIs. Improvements were performed as a retrofit at an active operational WTP facility requiring extensive sequencing and coordination. Programming implementation included object-based programming and integration with both the PLC and HMI systems. Equipment and process control included high-service pumps, well pumps, transfer pumps, feed pumps, ground storage tank, two RO membrane trains, sodium hypochlorite, acid, anti-scalant, cleaning solution, and an emergency generator.

Scope of Service Provided: Services included condition assessments; replacement and programming of PLC and HMI systems; development of control system standards; detailed control panel and wiring design, grounding, surge protection, network design, and integration, start-up, and commissioning of pumps, filtration, chemical feed, RO systems, and emergency power. Work was delivered as **turnkey design-build services**, including construction, system integration, start-up, and commissioning at active operating facilities.

Professional Fees: \$550K (Design - SWTP and ROWTP)

Project Start Date: Joe Mullins RO WTP: 04/2013; SWTP: 05/2019
Joe Mullins RO WTP: 06/2018; SWTP: 09/2021

Project Completion Date:

Construction Start Date: Joe Mullins RO WTP: 04/2013; SWTP: 05/2019
Joe Mullins RO WTP: 06/2018; SWTP: 09/2021

A: Project Construction Cost: \$4.5M (SWTP); \$1.7M (RO WTP) **B: Professional Fees:** \$550K (Design - SWTP and ROWTP) **Total Project Cost (A+B):** \$6.75M

Reference Company Name: City of Melbourne **Reference Name:** Jennifer Spagnoli, Public Works & Utilities Director

Reference Phone Number: 321.608.5000 **E-mail:** jennifer.spagnoli@mlbfl.org

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing **electrical engineering and SCADA design, retrofit, and system integration** for municipal water treatment facilities in the State of Florida, including PLC/HMI replacement, control system upgrades, and electrical infrastructure improvements.
- Direct involvement of qualified personnel in **Project Manager and senior technical leadership roles** (GJ Schers – Project Manager; Pilar Doran – Design Manager; Steven Young – SCADA Lead, Raul Alfaro – Process Engineer, responsible for design, coordination, and delivery.

Preferred Experience Criteria Met:

- Experience delivering **SCADA master planning, electrical upgrades, and system-wide control standardization** for municipal utilities, including development of PLC/HMI standards, network architecture, and automation strategies.
- Experience implementing upgrades at **multiple active water treatment facilities**, requiring detailed sequencing of construction activities and coordination to maintain uninterrupted operations.
- Demonstrated ability to **integrate new electrical and SCADA systems into existing infrastructure**, ensuring seamless transition and operational continuity.
- Experience delivering **design-build and turnkey system integration projects**, including construction, start-up, commissioning, and full operational transition.
- Experience with **complex treatment processes**, including surface water treatment and reverse osmosis systems, integrating electrical, SCADA, and process control systems.
- Demonstrated ability to deliver projects of **similar size, scope, and technical complexity**, including multi-facility upgrades and system-wide improvements.
- Experience working within Florida regulatory frameworks, including coordination with utilities and agencies, supporting compliant and efficient implementation.

This project is directly comparable in scope and complexity to the Cooper City Water and Wastewater Plant Electrical Improvements Program and demonstrates the team's ability to deliver integrated electrical and SCADA improvements with minimal operational disruption.



Notable Project Features:

- Turnkey design-build delivery
- Fiber optic and control network improvements
- Comprehensive SCADA Master Planning and condition assessment
- Development of standardized SCADA hardware and software standards

Jacobs provided SCADA and electrical master planning, detailed design, programming, and system integration services for the City of Melbourne's SWTP and RO WTP. Services included condition assessment; replacement and programming of PLC and HMI systems; development of SCADA hardware and software standards; advanced automation control narratives; detailed control panel, wiring, grounding, and surge protection design; control network and fiber improvements; and emergency power coordination. All improvements were implemented as retrofits at active facilities and included full integration, start-up, and commissioning of pumps, filtration systems, RO membrane trains, chemical feed systems, storage facilities, and standby power systems using object-based programming and standardized control architecture.

Project Challenges Met:

Collaborative Design. Jacobs developed the design after collaborative site visits to similar plants, including Green Meadows, Bonita Springs, Cape Coral, and Carter County, to integrate best practices and design concepts that align with client preferences and needs.

Avoided Community Impacts. Jacobs worked closely with the new plant's many neighbors and the City to create a neighborhood-friendly facility that balances technical performance with community integration. The design emphasizes aesthetics, noise and odor control, and visual screening, incorporating architectural treatments, landscaping, and a compact site layout to minimize the plant's footprint and visual presence.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer)

Reference Project Name/Address: North Miami Beach Norwood RO/NF WTP Improvements and Operation Services

Address: North Miami Beach Water, 17011 NE 19th Avenue N, Miami Beach, FL 33162

Name(s) and role(s) of key personnel working on this reference project: GJ Schers (Project Manager); Pilar Doran (QC Manager); Raul Alfaro (Project Engineer); Dave Everson (Structural); Tao Fu (Process Mechanical); Ivan Trullenque (Scheduler); Mike Witwer (Commissioning)

Reference Project Description: The City of North Miami Beach Water (NMB Water) wanted to implement a program that would enable them to become independent of the Miami-Dade supply. Team firm Tetra Tech worked with NMB Water from 2001 to 2009 on achieving this independence providing planning, funding assistance, public participation, design, permitting, bidding, and construction administration services. The program included expanding the **Norwood-Oeffler WTP** from 17 to 31 MGD by expanding the Biscayne Aquifer supply, a new Floridan aquifer supply; 15 MGD of nanofiltration (NF) and reverse osmosis (RO) treatment; new chemical, storage, and high-service pumping facilities; a new deep injection well (DIW), and new lime sludge handling facilities. In May 2017, NMB Water selected Jacobs to provide progressive design-build-operate (PDB/O) services for the **32-MGD Norwood WTP**. Built in the late 1940s, the WTP required a significant increase in treatment capacity and improved redundancy to enhance the long-term viability of NMB Water's water supply, treatment, and distribution facilities.

Scope of Service Provided: Services included design and construction of a 9-MGD NF/RO membrane expansion, lime softening facility upgrades, new wells, chemical and SCADA system improvements, structural rehabilitation, commissioning, and regulatory compliance enhancements. Jacobs also supported funding procurement (including a \$44M WIFIA loan) and provided full operations and maintenance services, including process optimization and asset management. Jacobs' expansion of Norwood WTP was delivered in the following two phases: Phase 1—Membrane Plant Expansion, and 2—Lime Softening Expansion, both of which were delivered via PDB.

Phase 1 - Membrane Plant Expansion: This expansion added 9 MGD of NF/RO membrane treatment capacity. Improvements included a new NF scale inhibitor system, variable frequency drive (VFD) feed pumps, a new NF skid, and upgrades to the existing NF/RO skids, increasing system recovery, operating at higher flux, and immediately reducing operational costs.

Phase 2 - Lime Softening Expansion: This expansion rehabilitated and replaced existing equipment at the lime softening facility, including new Floridan and Biscayne aquifer raw water wells, clarifiers, filters, clearwell, backwash tanks, disinfection contact piping, and upgrades to the existing high-service pump stations. A new chemical building, maintenance building, and SCADA control system were completed, along with Ground Water Rule compliance upgrades and other site improvements.

Professional Fees: \$ 4.3M (Design & Preconstruction)

Project Start Date: 06/2017 **Project Completion Date:** 05/2020

Construction Start Date: 06/2017 **Construction Completion Date:** 05/2020

A: Project Construction Cost: \$49.8M (Under Budget, on time) **B: Professional Fees:** \$4.3M (Design & Preconstruction)
Total Project Cost (A+B): \$ 54.1M

Reference Company Name: North Miami Beach Water **Reference Name:** Pedro Melo, Assistant Director of O&M

Reference Phone Number: 305.948.2967 (Ext. 32002) **E-mail:** pedro.melo@citynmb.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience delivering design, construction, and expansion of municipal water treatment facilities, including **membrane treatment systems (NF/RO)** and associated **electrical, SCADA, and process infrastructure**.
- Experience providing services under **progressive design-build (PDB/PDBO) delivery**, including engineering design, construction support, commissioning, and operations.
- Direct involvement of qualified personnel in **Project Manager** and **senior technical leadership** roles (GJ Schers - Project Manager; Pilar Doran - QC Manager; Raul Alfaro - Project Engineer; Dave Everson - Structural; Tao Fu - Process Mechanical), responsible for coordination, delivery, and system integration.

Preferred Experience Criteria Met:

- Experience delivering **large-scale, complex water treatment plant expansions**, including capacity increases, system redundancy improvements, and long-term infrastructure resiliency.
- Experience with **membrane treatment systems (NF/RO)**, including expansion, optimization, and integration with existing treatment processes.
- Experience integrating **electrical, SCADA, and process control systems** across **plant-wide operations**, including **automation upgrades** and **system standardization**.
- Experience supporting **funding and financial strategies**, including successful procurement of \$44 million in WIFIA funding to advance capital improvements.
- Experience providing **operations and maintenance (O&M) services**, including **process optimization, asset management**, and long-term **system performance improvements**.
- Experience implementing projects within **active treatment facilities**, requiring **phased construction, sequencing**, and coordination to maintain uninterrupted operations.
- Demonstrated ability to **deliver projects of similar size, scope, and technical complexity**, including **multi-phase expansions** and **regulatory compliance upgrades**.

This project demonstrates Jacobs' ability to deliver large-scale, complex water treatment facility expansions through integrated design-build-operate delivery, while enhancing system reliability, achieving regulatory compliance, and maintaining continuous plant operations.



Project Challenges Met

Funding Support: We worked with NMB Water to develop funding applications as part of EPA's Water Infrastructure Finance and Innovation Act (WIFIA). In 2020, the City received a \$44M WIFIA loan to help finance the expansion and rehabilitation of the Norwood WTP and distribution system.

Expedited Schedule: To make capital project delivery more efficient, we prioritized NMB Water's capital improvement plan (CIP), identifying the most time-critical projects for expedited delivery. These included membrane treatment improvements at the Norwood WTP, which Jacobs went on to self-perform by design-build delivery, further expediting schedule.

Meeting Budget: Through Value Engineering. During Phase 1, we worked with the City to evaluate the current and future needs of the WTP to address budgetary constraints. As part of our value engineering (VE) process, we increased the membrane plant capacity during Phase 1, eliminating the need to construct the membrane building planned for Phase 2. The savings from eliminating the membrane building allowed the City to install new filters, which weren't originally in the Phase 2 scope.

System Operations: From 2017 to 2021, Jacobs operated NMB Water's wells, the Norwood WTP, and the distribution and sanitary sewer systems. During that time, our in-house operations experts prioritized and improved plant O&M through a rigorous preventive maintenance and asset management program.

4-log Virus Treatment: We updated the City's tracking systems for compliance with the Ground Water Rule and demonstration of 4-log virus treatment at the WTP. We conducted extensive bench and full-scale testing to optimize color removal and reduce DBP formation potential, evaluating alternative measures such as the addition of metal coagulants, softening at higher pH values, sludge recirculation, replacing polymer, adding oxidants (e.g., potassium permanganate, hydrogen peroxide, chlorine dioxide) and/or sorbents (e.g., hydrous manganese oxides, activated carbon, and magnesium hydroxide) to remove color.

Client Feedback

Jacobs' improvements increased the recovery rate of the NF/RO WTP by 10%, all within budget and schedule.

— Carlos Carrazana, Former Norwood WTP Manager

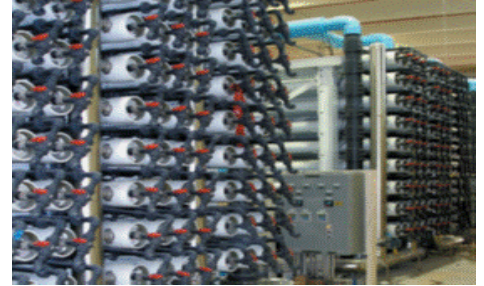


Figure 6.3. NF WTP Expansion

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer)

Reference Project Name/Address: Boynton Beach Switchgear and Generator Replacement at the East WTP

Address: City of Boynton Beach, 124 E Woolbright Rd, Boynton Beach, Florida 33435

Name(s) and role(s) of key personnel working on this reference project: GJ Schers (Project Manager); Raul Alfaro (Client Service Lead)

Reference Project Description: Jacobs has provided professional services to the City of Boynton Beach since the 1980s and is currently delivering PFAS-related improvements at the City's East and West Water Treatment Plants. As part of this Switchgear and Generator replacement project at the City's East WTP, an area was repurposed where a former Florida Power and Light (FPL) transformer vault and an aboveground diesel storage tank were located. An investigation determined that soils were contaminated with polychlorinated biphenyls (PCBs) associated with electrical transformer formally at this location. Jacobs helped navigate the City and Contractor through the different national and state requirements. The clean-up is regulated under the Toxic Substances Control Act (TSCA) in 40 CFR Part 761 (PCB Clean-up and Disposal Regulations). TSCA requirements are under EPA authority and are not delegated to the states and therefore the team had to coordinate both with FDEP and EPA. The PCB clean-up was successfully completed.

Scope of Service Provided: For East WTP, Jacobs designed and implemented installation of two new permanent generators (625-kW Tier 4 and 1,250-kW Tier 2), including sound enclosures, fuel systems, generator synchronizing and paralleling gear, switchgear modifications, and full SCADA integration for monitoring and control. Jacobs provided engineering design and technical support for power system resiliency and infrastructure upgrades at the East Water Treatment Plant. Services included electrical system evaluation, generator system integration with existing plant power distribution, coordination of protection and control systems, and upgrades to support automated and manual operational functionality.

Professional Fees: \$300K (Consultant Fee)

Project Start Date: 04/2019 **Project Completion Date:** 10/2025

Construction Start Date: 09/2020 **Construction Completion Date:** 10/2025

A: Project Construction Cost: \$7.0M **B: Professional Fees:** \$300K (Consultant Fee) **Total Project Cost (A+B):** \$7.3M

Reference Company Name: City of Boynton Beach **Reference Name:** Poonam Kalkat, PhD, Utilities Director

Reference Phone Number: 561.742.6403 **E-mail:** kalkatp@bbfl.us

This project complies with the experience and qualifications/preferences required under this solicitation:
Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience delivering **generator replacement, power distribution upgrades, and switchgear modifications** at active municipal water treatment facilities.
- Experience integrating **generator controls, synchronization systems, and power management systems** with existing plant SCADA platforms for monitoring and operational control.

Preferred Experience Criteria Met:

- Experience navigating **complex environmental compliance and regulatory coordination**, including requirements under EPA (TSCA) and FDEP.
- Demonstrated ability to manage **site-specific environmental challenges**, including PCB contamination, through coordination with regulatory agencies and implementation of compliant remediation strategies.

- Proven experience supporting **long-standing municipal clients**, demonstrating sustained performance, technical capability, and trusted advisor relationships.
- Experience anticipating and resolving **permitting and compliance risks early in design**, supported by access to in-house specialty resources for rapid response to unforeseen site conditions.
- Demonstrated experience delivering projects of **similar scope and complexity**, including electrical resiliency upgrades, generator integration, and coordination within active treatment facilities.

This project demonstrates Jacobs' ability to deliver complex electrical infrastructure upgrades while managing regulatory challenges, maintaining operational continuity, and ensuring full compliance with federal and state requirements.



Client Feedback

We trust the Jacobs team with one of the City's most important projects to address PFAS and emerging contaminants, which will define the City's water supply system for decades to come.

— Poonam Kalkat, PhD, Utilities Director

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer)

Reference Project Name/Address: Bonita Springs Phase III RO WTP Expansion

Address: Bonita Springs Utilities, 11860 East Terry St., Bonita Springs, FL 34135

Name(s) and role(s) of key personnel working on this reference project: Raul Alfaro (Process Engineer); GJ Schers (Senior Technologist); Pilar Doran (Design Manager); Dave Everson (Structural); Tao Fu (Process Mechanical); Dave Nicholson (Electrical); Ivan Trullenque (Scheduler)

Reference Project Description: Since 1995 Jacobs has been a trusted design-build delivery partner for Bonita Springs Utilities (BSU). To help BSU meet rapid growth in the Bonita Springs community, we serve as extension of their staff and have successfully delivered several PDB projects for them. Our planning, engineering design, and construction services have helped BSU achieve its water and wastewater system improvement goals, including source water wells, RO water treatment, deep injection wells (DIWs), and finished water storage and pumping. Projects have been delivered by both traditional and PDB delivery. In 2013, we conducted an expansion project at RO WTP to improve facility energy efficiency and operability. It involved installing new energy recovery and membrane elements to reduce the annual operating cost by more than \$300K. We modeled the existing RO treatment system and wellfield using our Replica™ dynamic process simulation model to optimize facility controls, RO system setpoints, and well usage, reducing operating costs.

Commissioned in 2023, the Phase III expansion includes a new Membrane Process Building with two 2-mgd rated RO trains and a bypass blend of fresh well water into both the brackish RO feed water and RO permeate, reducing operating costs by more than \$100K annually. The existing wet chemical scrubber was converted to a biological scrubber for the cost-effective treatment of hydrogen sulfide off-gas. The expanded membrane facility, combined with the existing lime softening WTP, can produce 22 mgd of potable water—enough to meet service area needs at build-out. The design can also accommodate the future, low-cost addition of NF to replace the aging lime softening process.

Scope of Service Provided: Services included design and construction of new RO membrane treatment capacity; concentrate disposal systems with deep injection wells; wellfields; chemical feed systems; finished water storage; and high-service pumping stations. Jacobs also delivered phased capacity expansions, retrofits to existing RO trains, lime softening process upgrades, installation of energy recovery systems, and development of process optimization models to improve efficiency and reduce operating costs. Additional services included commissioning, wellfield coordination, large-diameter pipeline tie-ins under Maintenance of Plant Operations (MOPO) conditions, hydrogen sulfide off-gas treatment upgrades, and integration of new facilities with existing operations while minimizing community impacts.

Professional Fees: \$ 4.2M (Design & Preconstruction Phase III)

Project Start Date: Phase III: 10/2019

Project Completion Date: Phase III: 08/2023

Construction Start Date: Phase III: 10/2019 **Construction Completion Date:** Phase III: 08/2023

A: Project Construction Cost: Phase III – \$48.6M (Under budget, finished on time) **B: Professional Fees:** \$4.2M (Design & Preconstruction Phase III) **Total Project Cost (A+B):** \$52.8M

Reference Company Name: Bonita Springs Utilities **Reference Name:** Kim Hoskins, PE, Director of Engineering

Reference Phone Number: 239.992.0711

E-mail: khoskins@bsu.us

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience delivering reverse osmosis (RO) membrane treatment system design, expansion, and retrofit projects for municipal water treatment facilities.

- Experience with **wellfield development and deep injection well (DIW) systems**, including integration with treatment processes and concentrate management.

Preferred Experience Criteria Met:

- More than ten (10) years of experience supporting **municipal water utilities with phased plant expansions**, including coordination of new and existing facilities.
- Experience implementing **energy optimization and energy recovery systems**, reducing operating costs and improving system efficiency.
- Experience performing upgrades within **active treatment facilities**, including detailed scheduling of tie-ins and **Maintenance of Plant Operations (MOPO)** planning to maintain uninterrupted service.
- Demonstrated ability to coordinate closely with **utility operations staff**, including execution of large-diameter pipeline connections during low-demand conditions to minimize operational impacts.
- Experience utilizing **advanced modeling tools (Replica™)** to optimize system performance, including energy usage, process control, and wellfield operations—resulting in measurable cost savings (e.g., \$300K annually and additional \$100K/year reductions).



Project Challenges Met

Commissioning New Facilities While Ensuring Water Quality: Starting up the new NF/RO facilities required careful management of the raw water wellfields to ensure appropriate water quality for the new membrane equipment while avoiding impacts to existing facilities. To meet this challenge, we developed a detailed commissioning checklist that compared the quality and quantity of raw water needed against the operational criteria required for successful testing.

Maintenance of Plant Operations: Another challenge during construction was scheduling tie-ins between the new and existing facilities. We worked closely with BSU operations staff to perform large-diameter pipeline connections during low-flow conditions, including scheduling tie-ins during low demand.

Effectively Managing Site Constraints: Many of the newly constructed BSU facilities were located near residential neighborhoods. In fact, we constructed two DIWs within the utility right-of-way (ROW), but also within the respective backyards of neighboring homes. Well installation in residential areas required outreach to property owners, careful planning to ensure construction was minimally invasive, and restoration of disturbed property to its original condition.

Client Feedback

"It is a pleasure working with the Jacobs team down here. The team sets a high standard for everyone to follow, including me."

— **Kim Hoskins, Director of Engineering, Bonita Springs Utilities**



Figure 6.4. Phase III – Membrane WTP

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer)

Reference Project Name/Address: Ave Maria RO WTP Design-Build

Address: Ave Maria Utility Company, 5076 Annunciation CIR, STE 102, Ave Maria, FL 34142

Name(s) and role(s) of key personnel working on this reference project: Pilar Doran (Design Manager); Dave Everson (Structural); Tao Fu, Process (Mechanical); Dave Nicholson (Electrical); Brandon Russakis (Plumbing/HVAC); Ivan Trullenque (Scheduler)

Reference Project Description: Jacobs provided design-build-operate services for the Ave Maria Water Treatment Plant, including master planning, design, permitting, construction, and 10 years of operations. The initial 1.67-MGD nanofiltration facility, expandable to 5 MGD, treats Tamiami aquifer water with membrane filtration, blending, chemical treatment, storage, and pumping systems, along with a concentrate management facility. Jacobs is currently delivering a Phase 2 expansion to increase capacity and enhance reliability through additional wells, blending improvements, filtration upgrades, odor control, and pumping enhancements.

Master Planning: Jacobs' 2006 master plan established a scalable, long-term vision for the plant, addressing both the immediate needs of a growing community and future expansion. The site layout and infrastructure were designed for flexibility, allowing efficient expansion as capacity demands increased. Over the years, the plan has supported multiple updates and expansions, demonstrating Jacobs' commitment to resilient, sustainable infrastructure that continues to meet evolving needs.

Phase 2 - WTP Expansion: We are currently constructing and will soon commission the expansion of the WTP to 2.5 MGD. The expanded facility will treat up to 0.83 MGD of Sandstone aquifer well water. Other process components will be modified to produce finished water that meets the utility's goals and FDEP drinking water standards.

Improvements include:

- New high service pump to increase firm capacity.
- Electrical improvements to support new facilities.
- Two Sandstone aquifer wellheads and submersible pumps.
- Addition of Sandstone aquifer raw water main and extension of Tamiami aquifer raw water main.
- New Sandstone aquifer to lower Tamiami aquifer blend connection for membrane feed blending; three new sand strainers connect the aquifers.
- New sand strainer backwash basin with transfer pumps.
- Addition of second cartridge filter to membrane feed.
- Extension of sulfuric acid chemical piping and installation of new sulfuric acid injection point prior to degasification to optimize sulfide removal.
- Installation of wafer-type static mixer to blend Sandstone aquifer blend water, membrane permeate, and sulfuric acid prior to degasification.
- Modification of existing degasifier blower to increase pressure rating requirements for new biological odor control unit.
- Installation of biological odor control system to treat degasifier off-gas and replace existing chemical odor scrubber.

Scope of Service Provided: Jacobs provided master planning, design, permitting, and progressive design-build-operate services for the Ave Maria Water Treatment Plant, including nanofiltration membrane treatment, wellfield development, chemical systems, blending, storage, and high-service pumping. Services also included phased capacity expansions, odor control upgrades, commissioning, regulatory coordination, funding support, and long-term operations and maintenance.

Professional Fees: Design & Preconstruction: Phase I – \$5.6M, Phase II – \$2.2M

Project Start Date: Phase I – 07/2004; Phase II – 07/2023 **Project Completion Date:** Phase I – 09/2006; Phase II – 11/2025

Construction Start Date: Phase I - 2007 **Construction Completion Date:** Phase I – 2017, Phase 2 - Ongoing

A: Project Construction Cost: Phase I – \$65M, Phase II - \$25.7M **B: Professional Fees:** Design & Preconstruction: Phase I – \$5.6M, Phase II – \$2.2M **Total Project Cost (A+B):** \$ 98.5M

Reference Company Name: Ave Maria Utility Company **Reference Name:** Jason Vogel, Vice President

Reference Phone Number: 239.348.0248

E-mail: jvogel@amuc.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience designing and constructing **nanofiltration (NF) membrane treatment systems** for municipal water treatment facilities.
- Experience with **wellfield development and aquifer integration/blending systems**, including multi-source water supply management and treatment optimization.

Preferred Experience Criteria Met:

- Experience providing **long-term operations and maintenance (O&M)** services, including process optimization, performance monitoring, and cost reduction.
- Experience supporting **funding and grant procurement** to advance water infrastructure development.
- Demonstrated ability to establish **early cost certainty**, including development of reliable cost estimates at preliminary design stages to support procurement of long-lead equipment and maintain project schedules.
- Experience achieving **expedited permitting approvals** through well-developed preliminary design reports and proactive coordination with regulatory agencies.
- Experience delivering projects under **design-build-operate (DBO/PDBO)** delivery, including phased expansions and integration of new facilities within operating treatment plants.



Project Challenges Met

Early Cost Certainty: Pricing was based on 70% design documents, making early involvement of subcontractors and suppliers essential for accuracy. This enabled procurement of key equipment and long-lead items ahead of final design, helping to avoid impacts to the construction schedule.

Expedited Permitting: Preliminary design reports were developed in accordance with FDEP guidelines so permit applications could be submitted early in the design process. Early discussions and presentations to the permitting agencies helped streamline the process.

Integrating new pretreatment and post-treatment systems with existing membrane train: New systems were integrated with existing membrane train, requiring precise pressure and chemical control. Adaptive SCADA programming and minor system tweaks allowed for operational continuity during construction, enabling seamless, phased implementation from source to production.



Figure 6.5. Phase II – Membrane WTP

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Jacobs Engineering Group Inc. (Proposer)

Reference Project Name/Address: Green Meadows RO and Ion Exchange WTP and Wellfield Expansion, Fort Myers, FL

Address: Lee County Utilities, 7391 College Parkway, Fort Myers, FL 33907

Name(s) and role(s) of key personnel working on this reference project: Pilar Doran (Design Manager); Mike Witwer (Commissioning); Dave Everson (Structural); Dave Nicholson (Electrical); Tao Fu (Process Mechanical)

Reference Project Description: Lee County Utilities' new Green Meadows WTP, a first-of-its-kind plant in southwest Florida, combines new and existing technologies to treat water from three different aquifers using the latest, large-scale treatment technologies. The 16-mgd facility replaced a lime softening plant that was at the end of its useful life. Completed in 2018, the project was delivered by construction management at-risk (CMAR), with Jacobs serving as the Engineer of Record and Poole & Kent responsible for process mechanical construction. The WTP includes an RO system for desalinating upper Floridan aquifer water, paired with an innovative ion exchange (IX) system consisting of cation and anion exchange to remove iron, hardness, and organics from the surficial aquifer (fresh water), freshwater blending using a third fresh aquifer source, degasification, disinfection, and finished water chemical addition. Innovative IXa and IXc treatment technologies have increased water supply treatment flexibility and reliability while reducing operational and treatment costs by as much as 60%. This blend of proven, innovative technologies combined under a single system provides a dynamic, cost-effective treatment plant that increases the County's water supply treatment flexibility and reliability, while providing a minerally balanced finished water quality. Our Replica™ dynamic process simulation model was used to identify the best value solution meeting all of the County's treatment objectives, followed by a 1-year pilot study to confirm the most economical and efficient options for treating all three water sources. At full capacity, the plant produces 7.5 MGD of RO treatment, 3.9 MGD of IX treatment, and 4.6 MGD of sandstone aquifer blend production. Replica™ process modeling tools included:

- Water quality and treatment modeling to quickly identify the impacts on treatment when blending three different groundwater supplies and to optimize options for further pilot testing to confirm and develop design criteria
- Dynamic simulations during preliminary and final design to model and optimize energy efficiency, hydraulics, and process control
- Parametric design estimating tools to develop costs for several treatment variations and capacities to help the County define the best value option

The Green Meadows WTP serves an estimated 30,000 homes and businesses, with the capacity to serve up to 60,000, and includes a process building; office/operations building; standby generator; shared chemical systems; raw water sand strainers; a backwash waste pumping station; eight upper Floridan aquifer wells; modifications to 27 existing wells; seven electrical buildings; a 2,873-foot deep injection well to dispose of treatment concentrate; 8 miles of production well piping; and 5 miles of service road to the production wells.

Scope of Service Provided: Services included providing comprehensive engineering and design for all major treatment processes. Services also covered a year-long pilot study, full wellfield design including eight new wells and upgrades to 27 existing wells, and site facility design for the process and operations buildings, chemical systems, electrical buildings, and the 2,873-foot deep injection well. Additional responsibilities included civil and utility design for production well piping and service roads, as well as Engineer-of-Record support and coordination during construction under the CMAR delivery method.

Professional Fees: \$14.1M (Design & Preconstruction)

Project Start Date: 01/2013 **Project Completion Date:** 10/2018

Construction Start Date: 01/2013 **Construction Completion Date:** 10/2018

A: Project Construction Cost: \$162.8M (Under budget, on time) **B: Professional Fees:** \$14.1M (Design & Preconstruction) **Total Project Cost (A+B):** \$ 176.9M

Reference Company Name: Lee County Utilities **Reference Name:** Damon Hardy, Technical Lead

Reference Phone Number: 239.357.3546 **E-mail:** dhardy@leegov.com

This project complies with the experience and qualifications/preferences required under this solicitation: Yes ☒ No ☐
NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience serving as **Engineer of Record** for a large-scale municipal water treatment facility (16-MGD).
- Experience designing **advanced treatment systems**, including reverse osmosis (RO), ion exchange (IX), blending, degasification, and disinfection.
- Experience delivering projects under **Construction Manager at Risk (CMAR)** delivery, including coordination with contractor and phased construction execution.

Minimum Preferred Criteria Met:

- Experience delivering **high-capacity water treatment facilities**, serving 30,000 to 60,000 customers and supporting long-term system growth and reliability.
- Demonstrated ability to develop **cost-effective, value-based treatment solutions** using advanced tools such as parametric design estimating, dynamic process modeling, and pilot validation.
- Experience utilizing **advanced modeling tools (Replica™)** to evaluate alternatives, optimize treatment processes, and identify best-value solutions for complex water supply systems.
- Recognition for **innovative and high-performing design**, including receipt of the Global Water Intelligence (GWI) Water Project of the Year Award.
- Demonstrated ability to deliver **complex, multi-source treatment systems** under challenging conditions, including environmental constraints and extreme weather events, while maintaining budget and schedule performance.

This project demonstrates Jacobs' ability to deliver innovative, cost-effective, and resilient water treatment solutions for complex systems, directly applicable to Cooper City's need for reliable, future-ready infrastructure.

Project Challenges Met:

Funding Support: Jacobs provided grant funding assistance, permitting, hydrogeologic services, services during construction, start-up, and operations training. In addition, we worked seamlessly with the CMAR to divide the project into separate components, including (1) early site work, (2) water treatment facility, and (3) wells and pipelines to allow an early start and minimize downtime and schedule. The facility was commissioned in 2018.

Innovative Design: Developing a robust treatment process to treat all three water sources was a significant challenge. We identified cation and anion ion exchange as the most cost-effective and reliable process for blending fresh water sources and the new RO system for brackish source water. The RO concentrate and seawater wells effectively regenerate the cation exchange to significantly reduce operating costs.

Award-Winning Design: One of biggest challenges faced during delivery of the Green Meadows WTP was forces of nature. In January 2016, Lee County experienced its wettest January ever followed by multiple wildfires, causing hazardous work conditions in the spring of 2017, which were compounded by the impacts of Category 3 Hurricane Irma, which arrived in September 2017. Jacobs worked with the CMAR to review and confirm the resiliency of the site and facility designs and to re-sequence work to make up for lost time. Despite the challenges, the project was delivered \$1.5 million under budget, resulting in savings for the County. In recognition of the treatment process complexity and overall delivery success, the project was awarded the Global Water Intelligence 2019 Water Project of the Year.

Client Feedback

This new water treatment plant uses modern technology and reduces the use of energy and chemicals, driving new efficiencies in water treatment while maintaining the same high-quality water to residents.

— Cecil Pendergrass, Board Chairman



Figure 6.6. Green Meadows RO and IX WTP

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm (Proposer): Jacobs Engineering Group Inc. (Prime)

Reference Project Name/Address: David L. Tippin WTF HSPS and Miscellaneous Improvements, Tampa, FL

Address: City of Tampa, Tampa, FL

Name(s) and role(s) of key personnel working on this reference project: Pilar Doran (QC Manager); Dave Everson (Structural); Tao Fu (Process Mechanical); Dave Nicholson (Electrical); Ivan Trullenque (Scheduler)

Reference Project Description: Jacobs was the design-builder for the City of Tampa's award-winning David L. Tippin Water Treatment Facility (DLTWTF) expansion, which increased capacity to 100 mgd. In 2019, the City again selected Jacobs as its trusted design-builder to deliver one of its risky and fast-paced projects—the High Service Pump Station (HSPS) and Miscellaneous Improvements projects at the DLTWTF. The project involved upgrading the aging infrastructure at DLTWTF that was impacting plant reliability. This project has included design and construction of a new 140-MGD pump station featuring eight vertical turbine pumps (six active/two standby), along with a new chlorine contact chamber, influent and effluent structures, new 1-MG clearwell, and modifications to existing clearwells. The project also includes demolition of existing facilities and upgrades to the electrical switchgear building and electrical distribution system.

Scope of Service Provided: The scope included the human machine interface (HMI) and historian product evaluation; ICS governance; ICS communication evaluation; ICS standards and design criteria; OT and HMI design services; PLC D and PLC F replacement design build; PLC and HMI programming services; Design review services; Procurement services for OT design components, and DLTWTF Process Automation Controller (PAC) hardware upgrade design

Professional Fees: HSPS Improvements – \$5.5M (Design and Preconstruction)

Project Start Date: HSPS Improvements: 07/2019 **Project Completion Date:** HSPS Improvements: 02/2025

Construction Start Date: 01/2013

Construction Completion Date: 10/2018

A: Project Construction Cost: HSPS Improvements – \$93.9M **B: Professional Fees:** HSPS Improvements – \$5.5M (Design and Preconstruction) **Total Project Cost (A+B):** \$99.4M

Reference Company Name: City of Tampa **Reference Name:** Rory Jones, PE, Water Department Director

Reference Phone Number: 813.274.7313 **E-mail:** rory.jones@tampagov.net

This project complies with the experience and qualifications/preferences required under this solicitation:
Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience serving as **Prime Design-Builder and Engineer of Record** for large-scale municipal water treatment facilities.
- Experience delivering **major treatment plant expansions and high-service pump station upgrades**, including electrical distribution system and switchgear improvements.

Preferred Experience Criteria Met:

- Experience delivering **large, complex municipal infrastructure projects** involving multidisciplinary coordination and high operational risk.
- Demonstrated ability to deliver projects **within budget and ahead of schedule**, including implementation of value engineering and Guaranteed Maximum Price (GMP) management strategies.
- Experience with **similar scope of services**, including electrical switchgear building upgrades, electrical distribution system improvements, and integration with plant-wide systems.

- Experience executing work within **active, aging treatment facilities**, including planning and coordination of multiple tie-ins, shutdowns, and system clearances while maintaining uninterrupted operations.
- Proven ability to coordinate with **regulatory agencies** and stakeholders to plan and execute complex construction activities within operational and compliance constraints.

This project demonstrates Jacobs' ability to deliver highly complex infrastructure improvements under aggressive schedules and strict operational constraints, including completion of major expansion milestones five (5) months early and return of \$2.4 million to the City, while maintaining continuous plant operations.



Reference Project Description (Ctd.):

Original DLTWTF Expansion

We shared performance risk for the original DLTWTF expansion, which improved taste and odor of the City's water supply. The project included a new 1,000-HP high service pump and piping; clearwell and water blending modifications; new finished water blending chamber; disinfection and chemical feed modifications; low lift pump station, ozone contactor and generation facility; new Actiflo process; new back wash pump station; filter replacements; new generator and Electrical Building; new gravity thickener; and associated yard piping, electrical, and I&C. This expansion posed significant risks and challenges, which carefully addressed a fast-track schedule, critical tie-ins, deep excavations next to an existing structure with a high ground water level, design of water-tight structures that addressed groundwater buoyancy, maintenance of plant operations during construction, water quality and blending/mixing challenges, and complex hydraulic modeling.

Project Challenges Met:

Schedule and Budget (DLTWTF Expansion): We closely managed the design, scope, and schedule, and implemented VE measures in collaboration with the City to deliver an aggressive GMP. As a result of these cost-saving measures, we were able to include additional upgrades outside the original scope within the original GMP while reaching construction completion milestones 5 months early, returning \$2.4 million to the City. These savings were used to fund facility upgrades beyond the original scope of work while holding the \$233 million GMP. Also, with careful planning during preconstruction, construction, and commissioning, water production commenced 54 days earlier than the target date while maintaining 24/7 plant operations.

Maintaining Continuous Operations: The project involved over 27 planned tie-ins, shutdowns, and system clearances in this 100-year-old facility, each requiring coordination and approval from the Department of Health. These complex activities were meticulously planned and executed to maintain uninterrupted water service to the community. To accomplish this, Jacobs developed detailed preliminary commissioning and tie-in plans early in design, well before the 30% design milestone. Plans evolved through construction, incorporating



Figure 6.7. High Service Pump Station

feedback from subcontractors during the GMP phase. For every planned tie-in, the team confirmed all materials and components were in place prior to shutdown. Strict contingency planning and risk mitigation strategies were implemented to allow for completion within the allotted time—often under 4 hours—to maintain operational reliability and regulatory compliance. Despite the plant's age and lack of initial flexibility for expansion, the team successfully adapted designs and sequencing to keep the facility online throughout construction. The experience demonstrates Jacobs' proven expertise in delivering critical infrastructure upgrades under stringent operational, electrical, and mechanical constraints.

Budget and Permitting (HSPS): We saved the City \$2.6 million during the delivery of GMP 2 by breaking the work into additional bid packages and saved an additional \$1.4 million by optimizing the shoring and excavation work. Jacobs also partnered with the City and FDEP to obtain the first ever zero discharge stormwater conceptual permit and two individual ERPs in only 9 months.

Client Feedback

Jacobs' commitment to transparency and open communication during the GMP process ensured there were no unexpected surprises, making this project a true success.

— **Rory Jones, Water Department Director, City of Tampa**

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Hillers Electrical Engineering (HEE), Inc. (A/E subconsultant)

Reference Project Name/Address: **Pembroke Pines Water Treatment Plant Electrical Improvements and Hurricane Hardening**

Address: City of Pembroke Pines, 8300 South Palm Drive Pembroke Pines, FL 33025

Name(s) and role(s) of key personnel working on this reference project: Mark Luther (Electrical Lead); Thien Win (Electrical Lead)

Reference Project Description: HEE provided the Electrical and Instrumentation & Control Design and Construction Services for the City of Pembroke Pines Water Treatment Plant (WTP) Electrical improvements and Hurricane Hardening project. The scope focused on modernizing aging infrastructure, enhancing system reliability, and improving plant resiliency while maintaining continuous plant operations.

Scope of Service Provided: The project included replacement of aging main switchboards, automatic transfer switches (ATSs), main breaker, and generator paralleling switchboard with new equipment; design of manual transfer switches with portable generator quick-connect boxes to provide emergency backup capability; and replacement of the outdoor motor control center (MCC) with redundant power feeds to improve reliability and redundancy. Additional upgrades to the main electrical room included new LED lighting, HVAC systems, convenience power outlets, and overhead wireways to improve functionality and accommodate future expansion. All work was carefully phased and coordinated, with close collaboration with Jacobs and plant staff, to minimize operational impacts during design and construction.

Professional Fees: \$ 288.5K (Design and Construction Services)

Project Start Date: Design duration: 02/2022 **Project Completion Date:** Design duration: 07/2023

Construction Start Date: 02/2024 **Construction Completion Date:** Ongoing (late 2026)

A: Project Construction Cost: \$4.3M **B: Professional Fees:** \$288.5K **Total Project Cost (A+B):** \$ 4.59M

Reference Company Name: City of Pembroke Pines **Reference Name:** George Wrvs, PE, Project Manager

Reference Phone Number: 954.435.7979 **E-mail:** gwrves@ppines.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing **electrical and instrumentation & control (I&C) design services** for municipal water treatment facilities in Florida.
- Experience implementing electrical infrastructure upgrades within **active treatment plants**, utilizing phased construction and sequencing to maintain continuous operations.

Preferred Experience Criteria Met:

- Experience coordinating closely with **plant staff and multidisciplinary teams** to minimize operational impacts during design and construction.
- Experience upgrading **electrical infrastructure and facility systems**, including switchboards, MCCs, ATS, HVAC, lighting, and power distribution to enhance reliability and resiliency.
- Demonstrated experience performing upgrades requiring detailed sequencing and **Maintenance of Plant Operations (MOPO)** planning within operating facilities.

- Proven history of successful collaboration between **Jacobs and Hillers Electrical Engineering (HEE)**, ensuring integrated design, efficient coordination, and high-quality delivery for municipal clients.

This project demonstrates the team's ability to deliver electrical system modernization and resiliency improvements in active treatment facilities while maintaining uninterrupted operations and minimizing risk.



EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Hillers Electrical Engineering (HEE), Inc. (A/E subconsultant)

Reference Project Name/Address: Palm Beach County Water Utilities – WTP9 2MW Generator Replacement

Address: Utilities Department, 22530 SW 65th Ave, Boca Raton, FL 33428

Name(s) and role(s) of key personnel working on this reference project: Mark Luther (Electrical Lead); Thien Win (Electrical Lead)

Reference Project Description: HEE provided electrical, instrumentation and control design as well as construction inspection services for the Palm Beach County Water Utilities WTP9 Generator Replacement project. This project consisted of removal and replacement of the existing generator with a new Tier 4 Final (Tier 4F) rated 2MW generator to meet current emissions and reliability standards.

Scope of Service Provided: Services included design of the existing generator removal and installation of a new Tier 4F rated generator, including integration of a new after-treatment clean emissions module system, urea system, and air compressor system. HEE designed a new conduit and wiring system to support the new generator installation, as well as new piping and transfer pump systems for the urea supply. Instrumentation associated with the urea storage tank and generator after-treatment system was designed, along with new signal connection points integrated back to the plant PLC system. The project required detailed coordination, new electrical and control tie-ins, and Maintenance of Plant Operations (MOPO) planning to ensure continuous plant operation during construction, providing relevant experience for similar facilities such as Cooper City.

Professional Fees: \$184,014 (Design)

Project Start Date: 01/2014

Project Completion Date: 12/2014

Construction Start Date: 03/2015

Construction Completion Date: 03/2017

A: Project Construction Cost: \$1.6M (On-time and within budget) \$1.8M (Engineer's Cost Estimate) **B: Professional Fees:** \$ 184,014 (Design) **Total Project Cost (A+B):** \$ 1.78M

Reference Company Name: Palm Beach County Water Utilities Department **Reference Name:** Brook A. Smith
Superintendent WTP9, 22530 SW 65th Ave, Boca Raton, FL 33428

Reference Phone Number: 561.381.5354 **E-mail:** BASmith@pbcwater.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing electrical, instrumentation, and control (I&C) design services for municipal water treatment facilities, including standby power systems and generator replacement projects.
- Direct involvement of qualified personnel in **lead electrical engineering roles**, responsible for design, system integration, and construction support.

Preferred Experience Criteria Met:

- Experience delivering **standby power and generator system upgrades**, including **replacement of large-capacity generators** and integration of associated electrical, control, and support systems.
- Experience designing and integrating **complex electrical and control systems**, including PLC integration, instrumentation, signal wiring, and system tie-ins to existing plant infrastructure.
- Experience implementing upgrades within active treatment facilities, requiring detailed **sequencing, coordination, and Maintenance of Plant Operations (MOPO) planning** to maintain uninterrupted service.

- Experience incorporating regulatory compliance requirements, including emissions standards (Tier 4 Final) and coordination of associated systems such as after-treatment and urea supply systems.
- Experience performing construction phase services, including inspection, coordination, and support to ensure successful implementation of design intent.
- Demonstrated ability to deliver projects of similar complexity, involving electrical system upgrades, process integration, and operational constraints.

This project demonstrates HEE's ability to deliver complex electrical and standby power improvements in active treatment facilities, ensuring reliable system integration, regulatory compliance, and minimal disruption to ongoing operations.



EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Longitude Surveyors, LLC. (A/E subconsultant)

Reference Project Name/Address: Alexander Orr Water Treatment Plant, Miami, FL

Address: Miami, FL

Name(s) and role(s) of key personnel working on this reference project: Eduardo M. Suarez, PSM (Chief Surveyor); Greg Bouie, PSM (Project Manager); Telava Morejon, CST, SIT (Sr. Survey Technician); Carlos Cuneo (Sr. Survey Technician)

Reference Project Description: Longitude Surveyors performed a 3D laser scan to document existing conditions at the Alexander Orr Water Treatment Plant in Miami, Florida. Elevations were assumed and not tied to a vertical datum. The site was cleared, powered, and properly lit to facilitate scanning. The scope included scanning the interior of Engine No. 6 housing unit, along with a Boundary and Topographic Survey and a Quality Level B Subsurface Utility Engineering (SUE) Designation. The survey documented property corners, aboveground improvements, drainage features, water bodies, driveway materials, sanitary inverts, valve elevations, flood zone data, folio number, and Finished Floor Elevations. A title review was completed based on the Title Commitment provided by MDWASD. Four Temporary Benchmarks (TBMs) and four horizontal and vertical control points were established using existing plant control. A Digital Terrain Model (DTM) was generated, limited roadway elevations were collected, and subsurface utilities were designated in accordance with WASD CAD standards.

Scope of Service Provided: The scope included 3D laser scanning of the interior of Engine No. 6 housing unit, along with a Boundary and Topographic Survey and a Quality Level B Subsurface Utility Engineering (SUE) Designation. A title review was completed based on the Title Commitment provided by MDWASD. Four Temporary Benchmarks (TBMs) and four horizontal and vertical control points were established using existing plant control. A Digital Terrain Model (DTM) was generated, limited roadway elevations were collected, and subsurface utilities were designated in accordance with WASD CAD standards.

Professional Fees: \$ 168,087

Project Start Date: 06/2024

Project Completion Date: 08/2024

Construction Start Date: 06/2024

Construction Completion Date: 06/2030

A: Project Construction Cost: \$16.5M **B: Professional Fees:** \$168,087 **Total Project Cost (A+B):** \$ 16.67M

Reference Company Name: HDR Engineering, Inc. **Reference Name:** Jorge I. Camacho, PE, ENV SP

Reference Phone Number: 787.409.8540

E-mail: Jorge.Camacho@HDRINC.com

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing **boundary, topographic, and subsurface utility engineering (SUE) services** for municipal infrastructure projects, including data collection, mapping, and documentation to support engineering design.
- Direct involvement of qualified personnel in a **lead surveying role**, responsible for field data collection, control establishment, and preparation of accurate survey deliverables.

Preferred Experience Criteria Met:

- Experience performing **surveying and SUE services at active water treatment facilities**, requiring coordination with plant operations and safe execution within constrained environments.

- Experience delivering **Quality Level B SUE investigations**, supporting identification and mapping of underground utilities to reduce design uncertainty and construction risk.
- Experience utilizing **advanced technologies such as 3D laser scanning** to document existing conditions and support design accuracy and constructability.
- Experience supporting infrastructure projects requiring **integration of survey data with engineering design**, including development of Digital Terrain Models (DTMs) and utility mapping in accordance with agency standards.
- Familiarity with **South Florida and municipal utility systems**, supporting efficient coordination and reliable data for design and construction.

This project demonstrates Longitude Surveyors' ability to provide accurate, reliable, and comprehensive survey and SUE services that support design development, improve constructability, and reduce risk for complex infrastructure projects.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable.
 Applicable team members must list previous similar type projects in which the member has performed work.
 The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: WIRX Engineering, LLC (A/E subconsultant)

Reference Project Name/Address: City of Pompano Beach – Powerline Road & NW 33rd Street Stormwater Improvements, Broward County, Florida

Address: Powerline Road & NW 33rd Street Stormwater Improvements, Broward County, Florida

Name(s) and role(s) of key personnel working on this reference project: Andrew Nixon, PE (Chief Geotechnical Engineer)

Reference Project Description: Project consisted of stormwater improvements on NW 33rd Court, NW 33rd St and NW 32nd St, immediately to the east of Powerline Rd in Pompano Beach, FL.

Scope of Service Provided: Geotechnical Services Report which included detailed graphical logs of the soil borings, groundwater levels, subsurface soil stratigraphy and classifications, along with engineering recommendations for the horizontal direction drilling crossing and pavement restoration.

Professional Fees: \$15K

Project Start Date: 2024 **Project Completion Date:** Ongoing

Construction Start Date: 2025 **Construction Completion Date:** Ongoing

A: Project Construction Cost: N/A **B: Professional Fees:** \$15K **Total Project Cost (A+B):** N/A

Reference Company Name: Baxter & Woodman **Reference Name:** Jeff G Hiscock, PE

Reference Phone Number: 561.685.6106 **E-mail:** JHiscock@baxterwoodman.com

This project complies with the experience and qualifications/preferences required under this solicitation:
 Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing **geotechnical engineering services** for municipal infrastructure projects, including subsurface investigations, soil classification, groundwater evaluation, and development of engineering recommendations to support design and construction.
- Direct involvement of qualified personnel in a **lead geotechnical engineering role** (Andrew Nixon, PE – Chief Geotechnical Engineer), responsible for analysis, reporting, and design recommendations.

Preferred Experience Criteria Met:

- Experience supporting **infrastructure improvements within Broward County**, including familiarity with local subsurface conditions, groundwater levels, and construction constraints.
- Experience developing **geotechnical recommendations to support constructability**, including horizontal directional drilling (HDD), trenching, and pavement restoration.
- Experience performing **subsurface investigations for utility and infrastructure projects**, supporting design decisions and reducing construction risk.
- Proven ability to identify and address **geotechnical risks early in design**, including soil variability, groundwater impacts, and constructability challenges.
- Experience supporting projects requiring coordination between **engineering design teams and construction activities**, ensuring practical and implementable solutions.

This project demonstrates WIRX Engineering's ability to provide geotechnical support that informs design, enhances constructability, and reduces risk—directly supporting successful delivery of infrastructure improvements in South Florida.

EXPERIENCE, QUALIFICATIONS & REFERENCE FORM

This form shall be submitted by the Proposer and each team member, as applicable. Applicable team members must list previous similar type projects in which the member has performed work. The reference provided below should be for one project and must comply with any requirements listed within the solicitation.

Name of Firm: Dickey Consulting Services, Inc. (Non - A/E subconsultant)

Reference Project Name/Address: Broward County Utility Analysis Zones Project (UAZ 110, UAZ 111, UAZ 113)

Address: Broward County

Name(s) and role(s) of key personnel working on this reference project:

Reference Project Description: Broward County Water & Wastewater Services Engineering Division (BCWWS) began implementing the Utility Analysis Zones (UAZ) Projects in mid-2009 to provide infrastructure improvements in various municipalities and unincorporated neighborhoods throughout Broward County. The UAZ Projects include improvements to the water distribution system and sanitary sewer system, installation of storm drainage, construction of water and sewer lines, abandonment of unsanitary septic tanks, and rehabilitation of lift stations. Restoration of roadways, sidewalks, driveways, and landscape were performed as needed, and community entry signage was installed in selected communities.

The UAZ 110, UAZ 111, and UAZ 113 Project consists of approximately 168,100 linear feet of water mains, 122,100 linear feet of sanitary sewer mains, and 23,600 linear feet force main. The area covers approximately 1,036 acres. The new sanitary sewer system was designed to connect to the eight Broward County lift stations and one private lift station in the Project area.

Scope of Service Provided: Dickey Consulting Services, Inc. (DCS) serves as the Public Involvement and Community Outreach Specialist on behalf of Broward County and the Consultant/Engineer of Record. DCS prepared and distributed Notices, Traffic Impact Reports, and other documents to property owners, residents, businesses, and other key stakeholders to ensure they were informed about the Project throughout the construction process. The firm established and monitored a 24-hour hotline to record stakeholder complaints/concerns and track them through resolution. The firm conducted regular site visits to monitor construction and to meet with stakeholders on-site, then prepared and submitted summary reports to the Project team. The firm attended pre-construction meetings, Homeowner Association meetings, and City Commission meetings to maintain the engagement process. The firm also conducted a post-construction survey to gather input for BCWWS to use for future infrastructure projects. DCS attends Construction Progress Meetings and will do so until final completion of the Project.

Professional Fees: \$ 454,215

Project Start Date: 02/2017 **Project Completion Date:** 08/2023

Construction Start Date: 08/2018 **Construction Completion Date:** 05/2023

A: Project Construction Cost: \$5.3M **B: Professional Fees:** \$ 454K **Total Project Cost (A+B):** \$ 5.75M

Reference Company Name: Broward County Water & Wastewater Services

Reference Name: George Lopez, Construction Project Manager

Reference Phone Number: 954.831-0919 **E-mail:** galopez@broward.org

This project complies with the experience and qualifications/preferences required under this solicitation:

Yes ☒ No ☐ NA ☐

Please denote what Experience/Qualification and/or Preference(s) will be met with this project:

Minimum Experience Criteria Met:

- Demonstrated experience providing **public involvement and community outreach services** for large-scale municipal water and wastewater infrastructure projects.
- Direct involvement of qualified personnel in **stakeholder coordination, communication, and issue resolution** during active construction projects impacting residential and commercial communities.

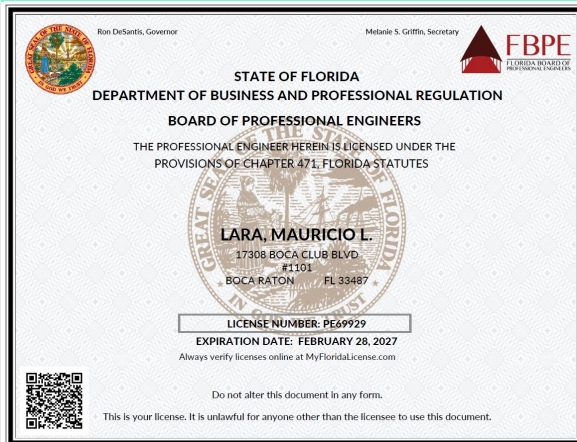
Preferred Experience Criteria Met:

- Experience supporting **major infrastructure programs within Broward County**, including coordination with local municipalities, residents, businesses, and County agencies.
- Experience managing **public communication and outreach for projects affecting active communities**, including preparation and distribution of notices, traffic advisories, and construction updates.
- Proven ability to implement **proactive stakeholder engagement strategies**, including public meetings, homeowner association coordination, and direct on-site engagement during construction.
- Experience establishing and managing **community response systems**, including 24-hour hotlines and tracking/resolution of stakeholder concerns to minimize community impacts.
- Experience supporting projects requiring **continuous coordination between engineering teams, contractors, and the public**, ensuring transparency and maintaining public confidence.

This project demonstrates DCS's ability to effectively support infrastructure improvements within Broward County by minimizing community disruption, maintaining proactive communication, and ensuring stakeholder concerns are addressed throughout the project lifecycle.

Key Personnel PE Licenses

Mauricio Lara – PE FL #69929



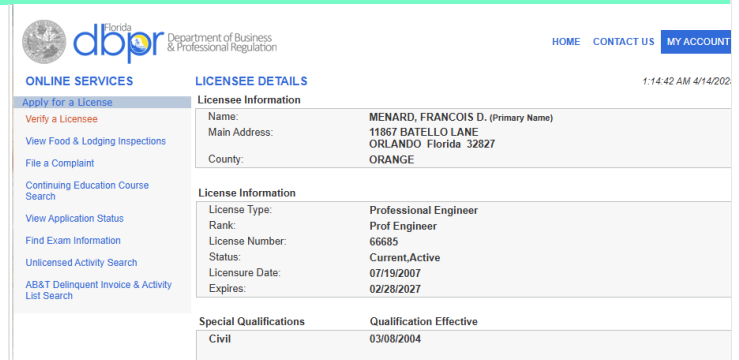
Mauricio Lara – PMP (PMI #1371620)



Raul Alfaro - PE FL #92557



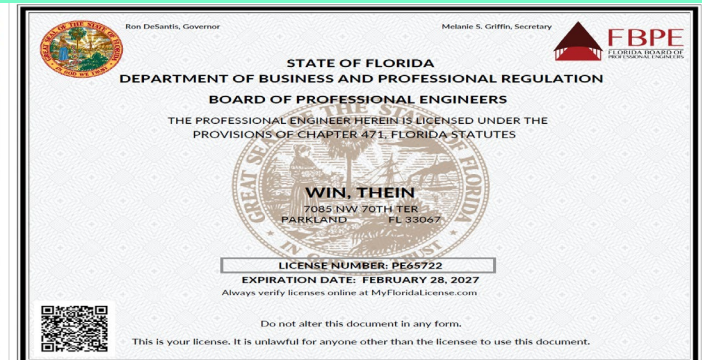
Didier Menard – PE FL #66685



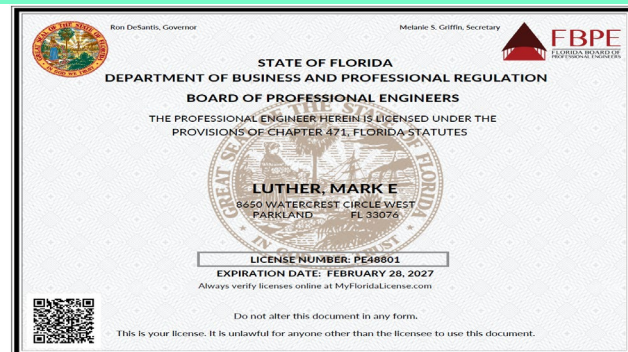
Marc Goslow – PE FL #41733



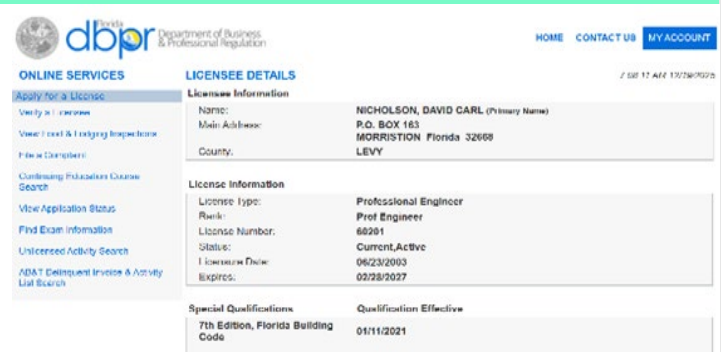
Thien Win – PE FL #65722



Mark Luther – PE FL #48801



Dave Nicholson – PE FL #60201



Pilar Doran - PE FL #53512

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Licensee Information

Name: DORAN, MARIA DEL PILAR (Primary Name)

Main Address: 1063 SW 132ND ST
NEWBERRY Florida 32869

County: ALACHUA

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 53512

Status: Current,Active

Licensure Date: 10/28/1998

Expires: 02/28/2027

Special Qualifications

Civil

Qualification Effective: 10/28/1998

GJ Schers, PMP (PMI #428825)



Steven Young – PE #51629

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Licensee Information

Name: YOUNG, STEVEN B. (Primary Name)

Main Address: 989 TURKEYFOOT RD.
LEXINGTON Kentucky 40502

County: OUT OF STATE

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 51629

Status: Current,Active

Licensure Date: 04/21/1997

Expires: 02/28/2027

Cyrus Saharkhiz – PE FL #84591

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Licensee Information

Name: SAHARKHIZ, CYRUS JOHN (Primary Name)

Main Address: 5400 NW 39TH AVENUE
UNIT H-45
GAINESVILLE Florida 32606

County: ALACHUA

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 84591

Status: Current,Active

Licensure Date: 02/02/2018

Expires: 02/28/2027

Special Qualifications

Control Systems

Qualification Effective: 07/10/2017

Jorge Atoche – PE FL #81647

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Licensee Information

Name: ATOCHE, JORGE CARLOS (Primary Name)

Main Address: 11412 BLUE WOODS DR
RIVERVIEW Florida 33569

County: HILLSBOROUGH

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 81647

Status: Current,Active

Licensure Date: 08/22/2016

Expires: 02/28/2027

Special Qualifications

Environmental

Advanced Building Code Course Credit

7th Edition, Florida Building Code

03/04/2021

8th Edition, Florida Building Code

02/18/2024

Tao Fu – PE FL #63138

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Licensee Information

Name: FU, TAO (Primary Name)

Main Address: 7795 SW 79TH DR
GAINESVILLE Florida 32608

County: ALACHUA

License Location: 7795 SW 79TH DR
GAINESVILLE FL 32608

County: ALACHUA

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 63138

Status: Current,Active

Licensure Date: 07/15/2005

Expires: 02/28/2027

Special Qualifications

Civil

Qualification Effective: 02/14/2005

Brandon Russakis – PE FL #91180

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Licensee Information

Name: RUSSAKIS, BRANDON ATHANAS (Primary Name)

Main Address: 6236 RUSSAKIS RD
FT. PIERCE Florida 34951

County: ST. LUCIE

License Mailing: 6236 RUSSAKIS RD
FT. PIERCE FL 34951

County: ST. LUCIE

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 91180

Status: Current,Active

Licensure Date: 04/05/2021

Expires: 02/28/2027

Special Qualifications

Mechanical

Qualification Effective: 04/05/2021

Cassandra Tomerlin – PE FL #100152

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Licensee Information

Name: TOMERLIN, CASSANDRA LYNN (Primary Name)

Main Address: 9760 SW 146TH STREET
MIAMI Florida 33176

County: DADE

License Information

License Type: Professional Engineer

Rank: Prof Engineer

License Number: 100152

Status: Current,Active

Licensure Date: 12/11/2024

Expires: 02/28/2027

Special Qualifications

Fire Protection

Qualification Effective: 12/11/2024

Randall Boe – PE FL #57330

Florida dbpr Department of Business & Professional Regulation

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Licensee Information

Name: BOE, RANDALL W. (Primary Name)
Main Address: 643 SW 4TH AVENUE SUITE 400 GAINESVILLE Florida 32601
County: ALACHUA

License Information

License Type: Professional Engineer
Rank: Prof Engineer
License Number: 57330
Status: Current,Active
License Date: 07/17/2001
Expires: 02/28/2027

Special Qualifications

Qualification Effective

Civil 07/17/2001
7th Edition, Florida Building Code 12/23/2021

Nick Easter – PE FL #82163

Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name: EASTER, NICKOLAS JOSEPH (Primary Name)
Main Address: 13724 LUNA DRIVE NAPLES Florida 34109
County: COLLIER

License Mailing: 13724 LUNA DR NAPLES FL 34109
County: COLLIER

License Information

License Type: Professional Engineer
Rank: Prof Engineer
License Number: 82163
Status: Current,Active
License Date: 01/10/2017
Expires: 02/28/2027

Special Qualifications

Qualification Effective

Civil 10/28/2016

Zindy Agredo – Architect FL #AR99555

Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name: AGREDO, ZINDY (Primary Name)
Main Address: 4958 LEEWARD LANE DANIA Florida 33312
County: BROWARD

License Information

License Type: Architect
Rank: Architect
License Number: AR99555
Status: Current,Active
License Date: 05/25/2018
Expires: 02/28/2027

Special Qualifications

Qualification Effective

Adam Dolsak – Architect FL #AR92469

Florida dbpr Department of Business & Professional Regulation

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6:17:17 AM 12/19/2025

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LICENSEE DETAILS

Licensee Information

Name: DOLSAK, ADAM NEIL (Primary Name)
Main Address: 643 SW 4TH AVENUE SUITE 400 GAINESVILLE Florida 32601
County: ALACHUA

License Information

License Type: Architect
Rank: Architect
License Number: AR92469
Status: Current,Active
License Date: 02/17/2005
Expires: 02/28/2027

Special Qualifications

Qualification Effective

Sarah Marrs – LA FL #LA6667722

Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name: MARRS, SARAH (Primary Name)
Main Address: 333 N UNIVERSITY DRIVE 522 PLANTATION Florida 33324
County: BROWARD

License Information

License Type: Registered Landscape Architect
Rank: Landscape Arc
License Number: LA6667722
Status: Current,Active
License Date: 07/01/2024
Expires: 11/30/2027

Special Qualifications

Qualification Effective

David Everson –PE FL #80180

Florida dbpr Department of Business & Professional Regulation

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9:54:41 AM 12/19/2025

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LICENSEE DETAILS

Licensee Information

Name: EVERSON, DAVID R. (Primary Name)
Main Address: 952 NW 23RD DR. NEWBERRY Florida 32669
County: ALACHUA

License Information

License Type: Professional Engineer
Rank: Prof Engineer
License Number: 80180
Status: Current,Active
License Date: 12/01/2015
Expires: 02/28/2027

Special Qualifications

Qualification Effective

Civil 12/01/2015
7th Edition, Florida Building Code 01/07/2021

Clement Anson – PE FL #75167

Florida dbpr Department of Business & Professional Regulation

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9:34:11 AM 3/23/2026

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LICENSEE DETAILS

Licensee Information

Name: ANSON, CLEMENT WILBERT (Primary Name)
Main Address: 6120 NW 35TH TER GAINESVILLE Florida 32653
County: ALACHUA

License Information

License Type: Professional Engineer
Rank: Prof Engineer
License Number: 75167
Status: Delinquent,Active
License Date: 11/02/2012
Expires: 02/28/2025

Special Qualifications

Qualification Effective

Civil 11/02/2012
7th Edition, Florida Building Code 01/13/2021

Marc Cohen – PE FL 91765

Florida dbpr Department of Business & Professional Regulation

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9:41:14 AM 3/23/2026

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LICENSEE DETAILS

Licensee Information

Name: COHEN, MARC SCOTT (Primary Name)
Main Address: 3523 NW 65TH LN GAINESVILLE Florida 32653
County: ALACHUA

License Information

License Type: Professional Engineer
Rank: Prof Engineer
License Number: 91765
Status: Current,Active
License Date: 07/01/2021
Expires: 02/28/2027

Special Qualifications

Qualification Effective

Civil 07/01/2021
8th Edition, Florida Building Code 01/25/2024

Richard Morrison – PE FL #67713

dbpr Department of Business & Professional Regulation
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LICENSEE DETAILS
7:12:55 AM 12/16/2025

Licensee Information
Name: MORRISON, RICHARD THOMAS (Primary Name)
Main Address: 3208 NW 412TH STREET
GAINESVILLE Florida 32608
County: ALACHUA

License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 67713
Status: Current/Active
Expiration Date: 02/28/2028
Firm: 02/28/2027

Special Qualifications
Qualification Effective
Civil 08/30/2007

Jose Ramos – PE FL #63120

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LICENSEE DETAILS
6:38:16 AM 12/16/2025

Licensee Information
Name: RAMOS, JOSE A. (Primary Name)
Main Address: 3302 SW 106TH STREET
GAINESVILLE Florida 32608
County: ALACHUA

License Information
License Type: Professional Engineer
Rank: Prof Engineer
License Number: 63120
Status: Current/Active
Expiration Date: 07/15/2025
Firm: 02/28/2027

Special Qualifications
Qualification Effective
Civil 02/14/2005

Andrew Nixon – PE FL #71458

Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

NIXON, ANDREW JOSEPH
9094 WRANGLER DRIVE
LAKE WORTH FL 33467

LICENSE NUMBER: PE71458
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
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Clifford Hippolyte – PE FL #83242

Ron DeSantis, Governor
Melanie S. Griffin, Secretary
FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HIPPOLYTE, CLIFFORD
515 E LAS OLAS BOULEVARD
SUITE 120
FORT LAUDERDALE FL 33301

LICENSE NUMBER: PE83242
EXPIRATION DATE: FEBRUARY 28, 2027
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.
This is your license. It is unlawful for anyone other than the licensee to use this document.

Eduardo M. Suarez – PSM FL #LS 6313

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
800HELPFLA(435-7352) or (850) 488-2221

February 28, 2025

EDUARDO M SUAREZ
7700 N KENDALL DR STE 705
MIAMI, FL 33156-7591

SUBJECT: Professional Surveyor and Mapper License # LS6313
Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.
The license appears below and is valid through February 28, 2027.
You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.
If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No: **LS6313**
Expiration Date: February 28, 2027

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

EDUARDO M SUAREZ
7700 N KENDALL DR STE 705
MIAMI, FL 33156-7591

WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

John H. Adler III – PSM FL #LS4693

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
800HELPFLA(435-7352) or (850) 488-2221

February 21, 2025

JOHN H ADLER III
1128 STARDUST WAY
ROYAL PALM BEACH, FL 33411-3059

SUBJECT: Professional Surveyor and Mapper License # LS4693
Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.
The license appears below and is valid through February 28, 2027.
You are required to keep your information with the Board current. Please visit our website at www.800helpfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.
If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No: **LS4693**
Expiration Date: February 28, 2027

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

JOHN H ADLER III
1128 STARDUST WAY
ROYAL PALM BEACH, FL 33411-3059

WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Jacobs Engineering Group Inc. (Prime) Licenses

State of Florida Department of State

I certify from the records of this office that JACOBS ENGINEERING GROUP INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on February 12, 1987.

The document number of this corporation is P13217.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 6, 2026, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twelfth day of January, 2026*



[Signature]
Secretary of State

Tracking Number: 3826851831CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

3:40 AM

DBPR - JACOBS ENGINEERING GROUP INC., Engineering Business Registry

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS &
PROFESSIONAL REGULATION



Department of Business
& Professional Regulation

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LICENSEE DETAILS

5:09:38 PM 2/9/2025

Licensee Information

Name:	JACOBS ENGINEERING GROUP INC. (Primary Name)
Main Address:	1999 BRYAN STREET DALLAS Texas 90017
License Mailing:	1999 BRYAN STREET DALLAS TX 75201
County:	OUT OF STATE
License Location:	1999 BRYAN STREET DALLAS TX 75201
County:	OUT OF STATE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	2822
Status:	Current
Licensure Date:	05/21/1979
Expires:	



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Detail by Entity Name

Foreign Profit Corporation

JACOBS ENGINEERING GROUP INC.

Filing Information

Document Number	P13217
FEI/EIN Number	95-4081636
Date Filed	02/12/1987
State	DE
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	11/24/2025
Event Effective Date	NONE

Principal Address

1999 Bryan Street
Suite 3500
Dallas, TX 75201

Changed: 02/20/2024

Mailing Address

1999 Bryan Street
Suite 3500
Dallas, TX 75201

Changed: 02/20/2024

Registered Agent Name & Address

CT CORPORATION SYSTEM
1200 S. PINE ISLAND ROAD
PLANTATION, FL 33324

Name Changed: 06/30/1992

Address Changed: 06/30/1992

Officer/Director Detail

Name & Address

Title VP

BUNDERSON, MICHAEL
555 S Flower Street
Ste 670
Los Angeles, CA 90071

Title Director, President

Pragada, Robert
1999 Bryan Street
Dallas, TX 75201

Title VP

WATSON, KATUS
5401 W Kennedy Blvd
Ste 300
Tampa, FL 33609

Title VP

Lazaro, Alberto
3150 SE 38 Avenue
Miami, FL 33146

Title VP

Patterson, Ellen
550 W Cypress Creek Rd
Fort Lauderdale, FL 33309

Title Treasurer

Hsu, Chin Chang (Mike)
555 S. Flower Street
Ste 3200
Los Angeles, CA 90071

Title VP

BAUCO, ROBERT
ONE PENN PLAZA
10TH FLOOR
NEW YORK, NY 10119

Title VP

MCLEAN, JAMES
525 W. MONROE
CHICAGO, IL 60661

Title VP

CANINO, GODOFREDO
9100 S. DADELAND BLVD.
STE 1510
MIAMI, FL 33156

Title VP

MENARD, FRANCOIS DIDIER
200 S. ORANGE AVE
STE 900
ORLANDO, FL 32801

Annual Reports

Report Year	Filed Date
2024	02/20/2024
2025	01/16/2025
2026	01/06/2026

Sub-Consultant Licenses

Hillers Electrical Engineering Inc. (HEE)

State of Florida Department of State

I certify from the records of this office that HILLERS ELECTRICAL ENGINEERING, INC. is a corporation organized under the laws of the State of Florida, filed on February 16, 1994.

The document number of this corporation is P94000013888.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 29, 2025, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-ninth day of January,
2025*



[Signature]
Secretary of State

Tracking Number: 1700291479CC

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<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

4/1/25, 9:20 AM

Related License Information

Print

Licensee

Name:	HILLERS, PAUL FREDERIK	License Number:	41022
Rank:	Professional Engineer	License Expiration Date:	02/28/2027
Primary Status:	Current	Original License Date:	02/09/1989
Secondary Status:	Active		

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
6877	Current	HILLERS ELECTRICAL ENGINEERING, INC.	Registry	01/20/2005	Registry	

https://www.myfloridalicense.com/relationsList.asp?record_cnt=1&LicId=2607083&Lname=&datefrom=&LicNum=&datesto=&Fname=&Category=

1/1

Dickey Consulting Services, Inc.



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400

May 21, 2024

Ms. Sheryl A. Dickey
DICKEY CONSULTING SERVICES, INC.
P.O. Box 892
Fort Lauderdale, FL 33302

ANNIVERSARY DATE – Annually, on March 12th

Dear Ms. Dickey:

Broward County is pleased to announce that Dickey Consulting Services, Inc. has renewed its certification as an **Airport Concessions Disadvantaged Business Enterprise (ACDBE)** and **Disadvantaged Business Enterprise (DBE)** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PARTS 23 and 26.

ACDBE/DBE certification continues from your anniversary date, but is contingent upon Dickey Consulting Services, Inc. renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, ensuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to decertify Dickey Consulting Services, Inc. as an ACDBE/DBE.

As long as Dickey Consulting Services, Inc. is listed in the DBE Directory, it is considered ACDBE/DBE Certified by all Florida UCP Members.

ACDBE/DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of Dickey Consulting Services, Inc.

Dickey Consulting Services, Inc. will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at:

<https://fdotwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch>

ACDBE/DBE certification is **NOT** a guarantee of work, but enables Dickey Consulting Services, Inc. to compete for, and perform, contract work on all USDOT Federal Aid FAA, FTA and FHWA projects in Florida as an ACDBE/DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Robert McKinzie • Nan H. Rich • Hazelle P. Rogers • Tim Ryan • Michael Udine
Broward.org

Re: Dickey Consulting Services, Inc.

May 21, 2024

If, at any time, there is a material change in Dickey Consulting Services, Inc., including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of Dickey Consulting Services, Inc., you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

Dickey Consulting Services, Inc. may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following area:

ACDBE/DBE:

NAICS CODE: 561611 Administrative Mgmt. and General Mgmt. Consulting Services

NAICS CODE: 541613 Marketing Consulting Services

NAICS CODE: 541618 Other Management Consulting Services

NAICS CODE: 541820 Public Relations Agencies

NAICS CODE: 541810 Advertising Agencies

NAICS CODE: 561110 Office Administrative Services

NAICS CODE: 541690 Other Professional, Scientific and Technical Services

NAICS CODE: 541820 Public Relations Agencies

NAICS CODE: 541430 Professional & Management Developing Training

Please feel free to contact OESBD for any questions or concerns pertaining to your ACDBE/DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5874.

Sincerely,

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400

May 16, 2024

Ms. Sheryl A. Dickey
DICKEY CONSULTING SERVICES, INC.
P.O. Box 892
Fort Lauderdale, Florida 33302

Dear Ms. Dickey:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's **County Business Enterprise (CBE)** and **Small Business Enterprise (SBE)** certifications have been renewed.

Your firm's certifications are continuing from your anniversary date but are contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. However, the responsibility to ensure continued certification is yours. Failure to document your firm's continued eligibility for the CBE and SBE programs within **thirty (30) days** from your anniversary may result in the expiration of your firm's certifications. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: www.broward.org/Purchasing and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over \$3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Contract Services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: www.broward.org/EconDev and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following areas:

NAICS CODE: 541430, 541611, 541613, 541618, 541690, 541820, 541720, 541810, 561110

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

SANDY-MICHAEL
MCDONALD
Digitally signed by SANDY-MICHAEL MCDONALD
DN: cn=SANDY-MICHAEL MCDONALD, o=OESBD

Sandy-Michael McDonald, Director
Office of Economic and Small Business Development

Cert Agency: BC-CBE SBE
ANNIVERSARY DATE: APRIL 1st

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Robert McKinzie • Nan H. Rich • Hazelle P. Rogers • Tim Ryan • Michael Udine
www.broward.org

WIRX Engineering

State of Florida Department of State

I certify from the records of this office that WIRX ENGINEERING LLC is a limited liability company organized under the laws of the State of Florida, filed on November 7, 2017, effective January 1, 2018.

The document number of this limited liability company is L17000229939.

I further certify that said limited liability company has paid all fees due this office through December 31, 2025, that its most recent annual report was filed on February 17, 2025, and that its status is active.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twenty-fourth day of March,
2025



[Signature]
Secretary of State

Tracking Number: 4892518308CU

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<https://services.unbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS &
PROFESSIONAL REGULATION



Florida
Department of Business
& Professional Regulation

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LICENSEE DETAILS

11:44:31 AM 5/22/2023

Licensee Information

Name: WIRX ENGINEERING, LLC (Primary Name)
Main Address: 515 E LAS OLAS BOULEVARD
SUITE 120
FORT LAUDERDALE Florida 33301
County: BROWARD

License Information

License Type: Engineering Business Registry
Rank: Registry
License Number: 34112
Status: Current
Licensure Date: 04/30/2020
Expires:

Special Qualifications

Qualification Effective

Alternate Names

[View Related License Information](#)

[View License Complaint](#)

2601 Blair Stone Road, Tallahassee FL 32399 :: Email: [Customer Contact Center](#) :: Customer Contact Center: 850.487.1395

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Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our [Chapter 455](#) page to determine if you are affected by this change.

State of Florida

Minority Business Certification

WIRX Engineering LLC

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

07/02/2024 to 07/02/2026

[Signature]

Pedro Allende
Florida Department of Management Services

FLORIDA DEPARTMENT OF MANAGEMENT SERVICES
● ● ● SUPPLIER DEVELOPMENT

Office of Supplier Development
4050 Esplanade Way, Suite 380
Tallahassee, Florida 32399
850-487-0915
www.dms.myflorida.com/osd

Longitude Surveyors

 Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500
800HELPLFLA(435-7352) or (850) 488-2221

January 30, 2025

LONGITUDE SURVEYORS, LLC
7700 N KENDALL DR STE 705
MIAMI, FL 33156-7591

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB7335

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2027.

You are required to keep your information with the Board current. Please visit our website at www.800helplfla.com/psm to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here

 Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No: **LB7335**
Expiration Date February 28, 2027

Professional Surveyor and Mapper Business License
Under the provisions of Chapter 472, Florida Statutes

LONGITUDE SURVEYORS, LLC
7700 N KENDALL DR STE 705
MIAMI, FL 33156-7591


WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



CITY OF FORT LAUDERDALE BUSINESS TAX YEAR 2025-26



Business Tax Division
700 NW 19TH AVE. | FORT LAUDERDALE, FL 33311 | (954) 828 - 5195

Business ID: BT-GEN-25010052

Business Name: LONGITUDE SURVEYORS, LLC

Business Address: 800 NW 62 ST # 340

EDUARDO M SUAREZ
LONGITUDE SURVEYORS, LLC
800 NW 62 ST # 340
FORT LAUDERDALE FL 33309

TAX CATEGORIES 500000 PROFESSIONAL SERVICES SUPERGROUP

Contact: EDUARDO M SUAREZ
Business Email: Kgarzon@LongitudeFL.com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email business@cityofftlauderdale.com and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to business@cityofftlauderdale.com and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.
Fort Lauderdale, FL 33311
TEL 954 828 5195
WWW.FORTLAUDERDALE.GOV

 **BROWARD COUNTY**
FLORIDA
OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

THIS CERTIFICATE IS AWARDED TO

Longitude Surveyors, LLC

AS SET FORTH IN THE BROWARD COUNTY BUSINESS OPPORTUNITY ACT, THE CERTIFICATION REQUIREMENTS HAVE BEEN MET FOR:

County Business Enterprise (CBE)

SANDY-MICHAEL MCDONALD

Digitally signed by SANDY-MICHAEL MCDONALD
Date: 2025.01.16 17:23:54 -05'00'

Anniversary Date: January 16th

THE OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT MUST BE NOTIFIED WITHIN 30 DAYS OF ANY MATERIAL CHANGES IN THE BUSINESS WHICH MAY AFFECT OWNERSHIP AND CONTROL. FAILURE TO DO SO MAY RESULT IN THE REVOCATION OF THIS CERTIFICATE AND/OR IMPOSITION OF OTHER SANCTIONS.

A SERVICE OF THE BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS
BROWARD.ORG/EconDev

GOVERNMENTAL CENTER ANNEX 115 S. ANDREWS AVENUE, ROOM A680 FORT LAUDERDALE, FL 33301
TEL: 954-357-6400 • EMAIL: SBCERT@BROWARD.ORG • TTY: 954-357-5664

Technical Proposal

Tab 7 Required Forms/Affidavits

Required Forms/Affidavits

1. Form A - American with Disabilities Act (ADA) Nondiscrimination Statement
2. Form B - Business Entity Affidavit
3. Form C - Certification Regarding Debarment, Suspension, Etc.
4. Form D - Contractor Due Diligence Affidavit
5. Form E - Domestic Partnership Affidavit
6. Form F - Drug Free Workplace Certificate
7. Form G - Employee Background Verification Affidavit
8. Form H - E-Verify Affidavit
9. Form I - Florida Division of Corporations (submit proof of active registration)
10. Form J - Foreign (Non-Florida) Corporation Form (if applicable)
11. Form K - Foreign Country of Concern Affidavit
12. Form L - Human Trafficking Affidavit
13. Form M - Non-Collusion Affidavit
14. Form N - Non-Conflict of Interest Statement
15. Form O - Ownership Disclosure Affidavit
16. Form P - Sample Insurance
17. Form Q - Public Entity Crimes Statement
18. Form R - Scrutinized Companies Affidavit
19. Form S - W-9

**AMERICANS WITH DISABILITIES ACT
(ADA) DISABILITY NONDISCRIMINATION
STATEMENT**

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR
OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the CITY OF COOPER CITY, FLORIDA

by: **Francois Didier Menard, PE, Principal-in-Charge**

(print individual's name and title)

for: **Jacobs Engineering Group Inc.**

(print name of entity submitting sworn statement)

whose business address is: **550 West Cypress Creek Road, Suite 400, Fort Lauderdale, FL 33309**

and (if applicable) its Federal Employer Identification Number (FEIN) is: **95-4081636**

(if the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement:

(____-____-____)

I, being duly first sworn state:

That the above named firm, corporation or organization is in compliance with and agreed to continue to comply with, and assure that any subcontractor, or third party contractor under this project complies with all applicable requirements of the laws listed below including, but not limited to, those provisions pertaining to employment, provision of programs and services, transportation, communications, access to facilities, renovations, and new construction.

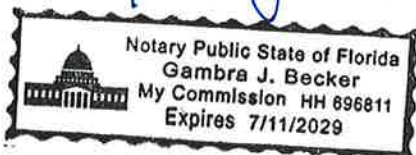
The American with Disabilities Act of 1990 (ADA), Pub. L. 101-336, 104 Stat 327, 42 USC 12101-12213 and 47 USC Sections 225 and 661 including Title I, Employment; Title II, Public Services; Title III, Public Accommodations and Services Operated by Private entities; Title IV, Telecommunications; and Title V, Miscellaneous Provisions.

The Florida Americans with Disabilities Accessibility Implementation Act of 1993, Section 553.501-553.513, Florida Statutes:

The Rehabilitation Act of 1973, 229 USC Section 794;
The Federal Transit Act, as amended 49 USC
Section 1612; The Fair Housing Act as amended
42 USC Section 3601-3631.



Signature



BUSINESS ENTITY AFFIDAVIT

I, Francois Didier Menard, PE, Principal-in-Charge, being first duly sworn state:

The full legal name and business address of the person(s) or entity proposing to contract or transact business with the City of Cooper City ("City") are (Post Office addresses are not acceptable), as follows:

Federal Employer Identification Number (FEIN) (If none, Social Security Number) - **95-4081636**

Name of Entity, Individual, Partners or Corporation - **Jacobs Engineering Group Inc.**

Doing Business As (If same as above, leave blank)

550 West Cypress Creek Road, Suite 400 Fort Lauderdale FL - 33309

Street Address	City	State
----------------	------	-------

Delaware, January 8, 1987

State and Date of Incorporation:



March 24, 2026

Signature of Affiant

Date

Francois Didier Menard, PE

March 24, 2026

Print Name

Date

**Certification Regarding
Debarment, Suspension, Ineligibility
And Voluntary Exclusion**

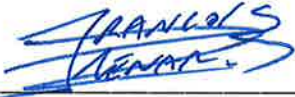
Subcontractor Covered Transactions

The prospective subcontractor of the Recipient, Jacobs Engineering Group Inc., certifies, by submission of this document, that neither it, its principals, nor affiliates are presently debarred, suspended, proposed for debarment, declared ineligible, voluntarily excluded, or disqualified from participation in this transaction by any Federal department or agency.

SUBCONTRACTOR:

Jacobs Engineering Group Inc.

By: _____



Signature

Francois Didier Menard, PE,
Principal-in-Charge

Name and Title

City of Cooper City

Recipient's Name

B0251

DEM Contract Number

550 West Cypress Creek Road, Suite 400

Street Address

DEM-HL00118

Project Number

Fort Lauderdale, FL 33309

City, State, Zip

March 16, 2026

Date

City of Cooper City

Contractor Due Diligence Affidavit

City Vendors and Contractors shall disclose the following as a condition of award for any contract that exceeds one million (\$1,000,000.00) or that must be presented to the Commission for approval:

(1) Provide a list of all lawsuits in the five (5) years prior to bid or proposal submittal that have been filed against the firm, its directors, partners, principals and/or board members based on a breach of contract by the firm; include the case name, number and disposition;

Please find Jacobs response on the next page.

(2) Provide a list of any instances in the five (5) years prior to bid or proposal submittal where the firm has defaulted; include a brief description of the circumstances;

Please find Jacobs response on the next page.

(3) Provide a list of any instances in the five (5) years prior to bid or proposal submittal where the firm has been debarred or received a formal email notice of non-compliance or non-performance, such as a notice to cure or a suspension from participating or bidding for contracts, whether related to the City of Cooper City or not.

Please find Jacobs response on the next page.

All of the above information shall be attached to the executed affidavit and submitted to the Purchasing Division. The Vendor/Contractor attests to providing all of the above information, if applicable to the Purchasing Division.

Contract No. : RFQ2026-1 Federal Employer Identification Number (FEIN): F95-4081636
Contract Title: ENGINEERING DESIGN SERVICES FOR ELECTRICAL IMPROVEMENTS TO THE CITY'S WATER AND WASTEWATER TREATMENT PLANT

Francois Didier Menard, PE Principal-in-Charge
Printed Name of Affiant Printed Title of Affiant Signature of Affiant
Jacobs Engineering Group Inc. 3/16/2026
Name of Firm Date
550 West Cypress Creek Road, Suite 400, Fort Lauderdale Florida 33309
Address of Firm State Zip Code

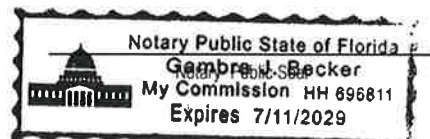
Notary Public Information

Notary Public - State of FLORIDA County of ORANGE

Subscribed and sworn to (or affirmed) before me this 16TH day of, MARCH 2026
by Francois Didier Menard He or she is personally known to me, or has produced identification

Type of identification produced _____
Signature of Notary Public [Signature] Serial Number HH696811

GAMBLA J. BECKER 7/11/2029
Print or Stamp of Notary Public Expiration Date



Jacobs response on Contractor Due Diligence Affidavit

- (1) Provide a list of all lawsuits in the five (5) years prior to bid or proposal submittal that have been filed against the firm, its directors, partners, principals and/or board members based on a breach of contract by the firm; include the case name, number and disposition;**

The Jacobs organization has a talent force of more than 40,000 with global operating entities in 40 countries. Jacobs provides end-to-end services in advanced manufacturing, cities & places, energy, environmental, life sciences, transportation, and water. Jacobs and its related companies and affiliates form a global organization that has the technical, financial and professional qualifications and resources to deliver. The organization is subject to the periodic reporting requirements promulgated by the U. S. Securities and Exchange Commission (the "SEC") and that the Proposer's most recent statements are available through the SEC at www.sec.gov. From time to time and in the ordinary course of its business, the Proposer is subject to various claims, disputes, termination, arbitrations, and other legal proceedings. It is the Proposer's practice to vigorously defend itself in such actions, many of which are generally subject to insurance and none of which are expected to have a materially adverse effect on the Proposer's consolidated financial statements.

- (2) Provide a list of any instances in the five (5) years prior to bid or proposal submittal where the firm has defaulted; include a brief description of the circumstances;**

The Proposer, Jacobs Engineering Group Inc. is a subsidiary of Jacobs Solutions Inc. The Jacobs organization has a talent force of more than 40,000 with global operating entities in 40 countries. Jacobs provides end-to-end services in advanced manufacturing, cities & places, energy, environmental, life sciences, transportation, and water. Jacobs and its related companies and affiliates form a global organization that has the technical, financial and professional qualifications and resources to deliver. The organization is subject to the periodic reporting requirements promulgated by the U. S. Securities and Exchange Commission (the "SEC") and that the Company's most recent statements are available through the SEC at www.sec.gov. From time to time and in the ordinary course of its business, the Proposer is subject to various claims, disputes, termination, arbitrations, and other legal proceedings. Also, private and public sector clients cancel or suspend projects for reasons that do not involve the Proposer. It is the Proposer's practice to vigorously defend itself in such actions, many of which are generally subject to insurance and none of which are expected to have a materially adverse effect on the Proposer's consolidated financial statements. No such litigation is expected to have any impact on the Proposer's potential ability to perform the contract. This question asks if within the past five (5) years, the Proposer defaulted on a contract. During the past five (5) years, the Proposer, Jacobs Engineering Group Inc. has not defaulted on a contract.

- (3) Provide a list of any instances in the five (5) years prior to bid or proposal submittal where the firm has been debarred or received a formal notice of non-compliance or non-performance, such as a notice to cure or a suspension from participating or bidding for contracts, whether related to the City of Cooper City or not.**

The Proposer, Jacobs Engineering Group Inc. is a subsidiary of Jacobs Solutions Inc. The Jacobs organization has a talent force of more than 40,000 with global operating entities in 40 countries. Jacobs provides end-to-end services in advanced manufacturing, cities & places, energy, environmental, life sciences, transportation, and water. Jacobs and its related companies and affiliates form a global organization that has the technical, financial and professional qualifications and resources to deliver. The organization is subject to the periodic reporting requirements promulgated by the U. S. Securities and Exchange Commission (the "SEC") and that the Proposer's most recent statements are available through the SEC at www.sec.gov. From time to time and in the ordinary course of its business, the Proposer is subject to various claims, disputes, termination, arbitrations, and other legal proceedings. Also, private and public sector clients cancel or suspend projects for reasons that do not involve the Proposer. It is the Proposer's practice to vigorously defend itself in such actions, many of which are generally subject to insurance and none of which are expected to have a materially adverse effect on the Proposer's consolidated financial statements. No such litigation is expected to have any impact on the Proposer's potential ability to perform the contract. This question asks if within the past five (5) years, the Proposer has been debarred or has received a formal notice of non-compliance or non-performance. During the past five (5) years, the Proposer, Jacobs Engineering Group Inc. has not been debarred. A formal notice of non-compliance or non-performance may have been received in the ordinary course of business in the past five (5) years but any such notice will not affect the ability to perform services or have a materially adverse effect on the consolidated financial statement.



Signature of Affiant

DOMESTIC PARTNERSHIP CERTIFICATION FORM

THIS FORM **MUST** BE COMPLETED AND SUBMITTED AT TIME OF SUBMITTAL
FOR PROPOSER TO BE DEEMED RESPONSIVE

The Proposer, by virtue of the signature below, certifies that it is aware of the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances, "Requirement for city contractors to provide equal benefits to domestic partners", and certifies the following:

Please check only one below

- ☒ 1. The Proposer currently complies with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances and provides benefits to domestic partners of its employees and the partners' dependents on the same basis as it provides benefits to employees' spouses and the spouses' dependents
- ☐ 2. The Proposer will comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances at time of contract award and provide benefits to domestic partners of its employees and the partners' dependents on the same basis as it provides benefits to employees' spouses and the spouses' dependents
- ☐ 3. The Proposer will not comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances at time of award
- ☐ 4. The Proposer does not need to comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances at time of award because the following exemption applies:

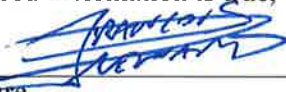
Please check only one below

- ☐ The Proposer's price bid for the initial contract term is \$100,000 or less
- ☐ The Proposer employs less than twenty-five (25) employees
- ☐ The Proposer does not provide benefits to employees' spouses or spouse's dependents
- ☐ The Proposer is a religious organization, association, society, or non-profit charitable or educational institution
- ☐ The Proposer is a government entity
- ☐ The Proposer cannot comply with the requirements of Section 2-197.1 of the City of Cooper City's Code of Ordinances because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. Indicate the law, statute or regulation _____.
(Attach explanation of its applicability)

DOMESTIC PARTNERSHIP CERTIFICATION FORM (continued)

I, Francois Didier Menard, PE, Principal-in-Charge of Jacobs Engineering Group Inc.
(Name) (Title) (Proposer)

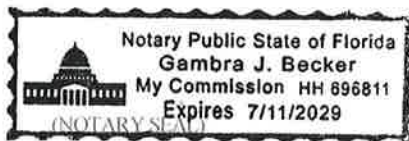
Hereby attest that I have the authority to sign this notarized certification and certify that the above-referenced information is true, complete, and correct.

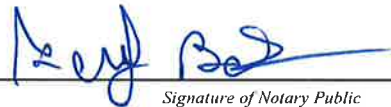

Signature

Francois Didier Menard, PE
Print Name

STATE: FLORIDA COUNTY: ORANGE

Sworn to (or affirmed) and subscribed before me this 16TH day of
MARCH, 20 26, by: Francois Didier Menard
Name of Person Making Statement




Signature of Notary Public

GAMBRA J. BECKER
Name of Notary Public (Typed, Printed, Stamped)

Personally Known: ☒ OR Identification Produced: _____

Type of Identification Produced: _____

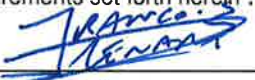
DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that, (print or type name of firm)

Jacobs Engineering Group Inc.

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace named above, and specifying actions that will be taken against violations of such prohibition.
- Informs employees about the dangers of drug abuse in the work place, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.
- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.
- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, pleas of guilty or nolo contendere to, any violation of Chapter 1893, or of any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written (*) statement to acknowledge their receipt.
- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.
- Makes a good faith effort to continue to maintain a drug free work place through the implementation of the drug free workplace program.

"As a person authorized to sign this statement, I certify that the above named business, firm or corporation complies fully with the requirements set forth herein".



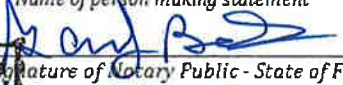
Signature of Affiant

Francois Didier Menard, PE

Print Name

March 16, 2026

Date

STATE:	FLORIDA
COUNTY:	ORANGE
Sworn to (or affirmed) and subscribed before me this <u>16TH</u> day of <u>MARCH</u> , 20 <u>26</u> by: <u>FRANCOIS DIDIER MENARD</u>	
Name of person making statement	
	
Notary Public State of Florida	
Gandra J. Becker	
My Commission HH 896811	
Expires 7/11/2029	
Name of Notary Typed, Printed, or Stamped	
<u>GANDRA J. BECKER</u>	
Name of Notary Typed, Printed, or Stamped	
Personally Known ☒ OR Produced Identification ☐	
Type of Identification Produced _____	

EMPLOYEE BACKGROUND VERIFICATION AFFIDAVIT

I, Francois Didier Menard, PE of Jacobs Engineering Group Inc., attest that all personnel used in
(Print Name) (Company Name)

the performance of this work have had a criminal background check with a passing grade and have been drug tested with a passing grade and are legally documented to work in the United States.



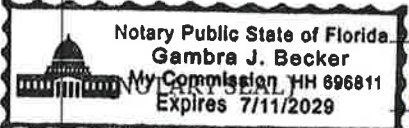
Signature of Affiant

Francois Didier Menard, PE

Print Name

March 16, 2016

Date

STATE: FLORIDA
COUNTY: <u>ORANGE</u>
Sworn to (or affirmed) and subscribed before me this <u>16TH</u> day of <u>MARCH</u> , 20 <u>16</u> by: <u>Francois Didier Menard</u> Name of person making statement

<u></u> Signature of Notary Public - State of Florida
<u>GANDRA J. BECKER</u> Name of Notary Typed, Printed, or Stamped
<u>Personally Known</u> ☒ OR Produced Identification ☐
Type of Identification Produced _____

CONTRACTOR/VENDOR E-VERIFY
AFFIDAVIT

STATE OF Florida

COUNTY OF Broward

BEFORE ME, the undersigned authority, appeared Francois Didier Menard, PE ,
who first being duly sworn hereby swears or affirms as follows:

1. I make this affidavit on personal knowledge.
2. I am over the age of 18 years and otherwise confident to make this Affidavit.
3. I am the Principal-in-Charge _____ of
Jacobs Engineering Group Inc. (the "Contractor/Vendor").
4. I am authorized by Jacobs Engineering Group Inc. to make
this Affidavit on behalf of Contractor/Vendor.
5. Contractor/Vendor acknowledges that Section 448.09, Florida Statutes,
makes it unlawful for any person to knowingly employ, hire, recruit, or refer, for private
or public employment, an alien who is not duly authorized to work in the United States.
6. Contractor/Vendor acknowledges that Section 448.095, Florida Statutes,
prohibits public employers, contractors, and subcontractors from entering into a contract
unless each party to the contract registers and uses E-Verify.
7. Contractor/Vendor is in compliance with the requirements of Sections
448.09 and 448.095, Florida Statutes.
8. Contractor/Vendor understands it shall remain in compliance with the
requirements of Sections 448.09 and 448.095, Florida Statutes, during the term of any
contract with the City.

9. Contractor/Vendor's subcontractors are in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes.

10. Contractor/Vendor shall ensure compliance with the requirements of Sections 448.09 and 449.095, Florida Statutes, by any and all of its subcontractors.

11. Neither the Contractor/Vendor, nor any subcontractor of Contractor/Vendor, has had a contract terminated by a public employer for violating Section 448.095, Florida Statutes, within the year preceding the date of this Affidavit.

12. If the Contractor/Vendor, or any subcontractor of Contractor/Vendor, has a contract terminated by a public employer for any such violation during the term of any contract with the City, it shall provide immediate notice thereof to the City.



Signature of Affiant
on behalf of Contractor/Vendor

By: Francois Didier Menard, PE

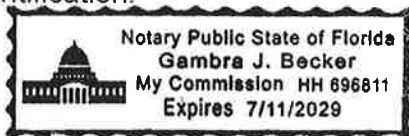
As its: Principal-in-Charge

Dated: MARCH 24, 2026

STATE OF Florida

COUNTY OF ORANGE

Sworn to (or affirmed) and subscribed before me by means of ☒ physical presence, or ☐ online notarization, this 24TH day of MARCH, 2026, by FRANCOIS DIDIER MENARD, on behalf of JACOBS ENGINEERING GROUP INC., who is personally known to me, or who has produced _____ as identification.





Print Name: GANDRA J. BECKER
Notary Public of the State of Florida

My Commission Expires: 7/11/2029



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Foreign Profit Corporation
JACOBS ENGINEERING GROUP INC.

Filing Information

Document Number	P13217
FEI/EIN Number	95-4081636
Date Filed	02/12/1987
State	DE
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	11/24/2025
Event Effective Date	NONE

Principal Address

1999 Bryan Street
Suite 3500
Dallas, TX 75201

Changed: 02/20/2024

Mailing Address

1999 Bryan Street
Suite 3500
Dallas, TX 75201

Changed: 02/20/2024

Registered Agent Name & Address

CT CORPORATION SYSTEM
1200 S. PINE ISLAND ROAD
PLANTATION, FL 33324

Name Changed: 02/26/2026

Address Changed: 06/30/1992

Officer/Director Detail

Name & Address

Title VP

BUNDERSON, MICHAEL
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title President, Director

Pragada, Robert
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

WATSON, KATUS
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

Lazaro, Alberto
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

Patterson, Ellen
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title Treasurer

Hsu, Chin Chang (Mike)
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

BAUCO, ROBERT
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

CANINO, GODOFREDO
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

MENARD, FRANCOIS DIDIER
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title Authorized Representative

Nein, Brett
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title Authorized Representative

Stejskal, David
1999 Bryan Street
Suite 3500

Dallas, TX 75201

Title Authorized Representative

Kirby, Daniel
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title Authorized Representative

Jones, Keith
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title Vice President Transportation SE Region

Williams, Joshua L.
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

Martin, Joseph
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title Assistant Secretary

Carpenter , Michelle
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Title VP

Menard, Francois Didier
1999 Bryan Street
Suite 3500
Dallas, TX 75201

Annual Reports

Report Year	Filed Date
2026	01/06/2026
2026	01/28/2026
2026	02/26/2026

Document Images

02/26/2026 -- AMENDED ANNUAL REPORT	View image in PDF format
01/28/2026 -- AMENDED ANNUAL REPORT	View image in PDF format
01/06/2026 -- ANNUAL REPORT	View image in PDF format
11/24/2025 -- Amendment	View image in PDF format
03/31/2025 -- Amendment	View image in PDF format
01/16/2025 -- ANNUAL REPORT	View image in PDF format
11/07/2024 -- AMENDED ANNUAL REPORT	View image in PDF format
02/20/2024 -- ANNUAL REPORT	View image in PDF format
11/21/2023 -- AMENDED ANNUAL REPORT	View image in PDF format

11/08/2023 -- AMENDED ANNUAL REPORT	View image in PDF format
02/28/2023 -- AMENDED ANNUAL REPORT	View image in PDF format
02/15/2023 -- ANNUAL REPORT	View image in PDF format
01/13/2022 -- ANNUAL REPORT	View image in PDF format
09/28/2021 -- AMENDED ANNUAL REPORT	View image in PDF format
06/07/2021 -- AMENDED ANNUAL REPORT	View image in PDF format
01/14/2021 -- ANNUAL REPORT	View image in PDF format
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04/23/1996 -- ANNUAL REPORT	View image in PDF format
05/01/1995 -- ANNUAL REPORT	View image in PDF format

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

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ONLINE SERVICES

LICENSEE DETAILS

1:03:15 PM 2/26/2026

Apply for a License

[Verify a Licensee](#)[View Food & Lodging Inspections](#)[File a Complaint](#)[Continuing Education Course Search](#)[View Application Status](#)[Find Exam Information](#)[Unlicensed Activity Search](#)[AB&T Delinquent Invoice & Activity List Search](#)

Licensee Information

Name:	JACOBS ENGINEERING GROUP INC. (Primary Name)
Main Address:	1999 BRYAN STREET DALLAS Texas 90017
License Mailing:	1999 BRYAN STREET DALLAS TX 75201
County:	OUT OF STATE
License Location:	1999 BRYAN STREET DALLAS TX 75201
County:	OUT OF STATE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	2822
Status:	Current
Licensure Date:	05/21/1979
Expires:	

Special Qualifications

Qualification Effective

--

Alternate Names

--

[View Related License Information](#)[View License Complaint](#)

State of Florida

Department of State

I certify from the records of this office that JACOBS ENGINEERING GROUP INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on February 12, 1987.

The document number of this corporation is P13217.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 6, 2026, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Twelfth day of January, 2026*




Secretary of State

Tracking Number: 3826851831CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

NOT APPLICABLE

FOREIGN (NON-FLORIDA) CORPORATION MUST COMPLETE THIS FORM DEPARTMENT OF STATE CORPORATE CHARTER NO. _____

If your corporation is exempt from the requirements of Section 607.1501, Florida Statutes, **YOU MUST CHECK BELOW** the reason(s) for the exemption. Please contact the Department of State, Division of Corporations at (850) 245-6051 for assistance with corporate registration or exemptions. 607.1501 Authority of foreign corporation to transact business required.

(1) A foreign corporation may not transact business in this state until it obtains a certificate of authority from the Department of State.

_____ (a) Maintaining, defending, or settling any proceedings.

_____ (b) Holding meetings of the board of directors or shareholders or carrying on other activities concerning internal corporate affairs.

_____ (c) Maintaining bank accounts.

_____ (d) Maintaining officers of agencies for the transfer, exchange, and registration of the corporation's own securities or maintaining trustees or depositories with respect to those securities.

_____ (e) Selling through independent contractors.

_____ (f) Soliciting or obtaining orders, whether by mail or through employees, agents or otherwise, if the orders

_____ (g) Creating or acquiring indebtedness, mortgages, and security interests in real or personal property.

_____ (h) Securing or collecting debts or enforcing mortgages and security interests in property securing the debts.

_____ (i) Transacting business in interstate commerce.

_____ (j) Conducting an isolated transaction that is completed within 30 days and that is not one in the course of repeated transactions of a like nature.

_____ (k) Owning and controlling a subsidiary corporation incorporated in or transacting business within this state or voting the stock of any corporation which it has lawfully acquired.

_____ (l) Owning a limited partnership interest in a limited partnership that is doing business within this state, unless such limited partner manages or controls the partnership or exercises the powers and duties of a general partner.

State Street _____ (m) Owning, without more, real or personal property.

(2) The following activities, among others, do not constitute transacting business within the meaning of subsection one (1): The list of activities of subsection (2) is not exhaustive.

(3) This section has no application to the question of whether any foreign corporation is subject to service of process and suit in this state under any law of this state.

Please check one of the following if your firm is **NOT** a corporation:

(I) _____ Partnership, Joint Venture, Estate or Trust

(II) _____ Sole Proprietorships of Self Employed

NOTE: This sheet **MUST** be enclosed with your bid if you claim an exemption or have checked I or II above, your firm will be considered a corporation and subject to all requirements listed herein.

SIGNATURE OF AUTHORIZED AGENT OF PROPOSER

PROPOSER'S LEGAL NAME

**FOREIGN COUNTRY OF CONCERN AFFIDAVIT –
PERSONAL IDENTIFYING INFORMATION CONTRACT**

Section 287.138, Florida Statutes, prohibits a Florida "Governmental entity"¹ from entering into or extending contracts with any other entity whereby such a contract, or extension thereof, could grant the other entity access to an individual's personal identifying information if that entity is associated with a "Foreign Country of Concern."² Specifically, section 287.138(2), Florida Statutes, prohibits such contracts with any entity that is owned by the government of a Foreign Country of Concern, any entity in which the government of a Foreign Country of Concern has a "controlling interest,"³ and any entity organized under the laws of or which has its principal place of business in a Foreign Country of Concern.

As the person authorized to sign on behalf of Respondent, I hereby attest that the company identified above in the section entitled "Respondent Vendor Name" is not an entity owned by the government of a Foreign Country of Concern, no government of a Foreign Country of Concern has a controlling interest in the entity, and the entity has not been organized under the laws of or has its principal place of business in a Foreign Country of Concern.

I understand that pursuant to section 287.138, Florida Statutes, I am submitting this affidavit under penalty of perjury.

Respondent Vendor Name: Jacobs Engineering Group Inc.

Vendor FEIN: 95-4081636

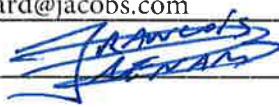
Vendor's Authorized Representative Name and Title: Francois Didier Menard, PE

Address: 550 West Cypress Creek Road, Suite 400,

City: Fort Lauderdale, State: Florida Zip: 33309

Phone Number: 407.496.1938

Email Address: didier.menard@jacobs.com

Certified By: 

AUTHORIZED SIGNATURE

Print Name and Title: Francois Didier Menard, PE, Principal-in-Charge

Date: March 16, 2016

¹ As defined in Section 287.138 (1)(d), Florida Statutes.

² As defined in Section 287.138 (1)(c), Florida Statutes.

³ As defined in Section 287.138 (1)(a), Florida Statutes.

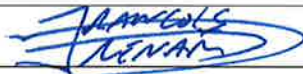
HUMAN TRAFFICKING AFFIDAVIT

In compliance with Section 787.06(13), Florida Statutes, this affidavit must be completed by an officer or representative of a nongovernmental entity that is executing, renewing, or extending a contract with the City of Cooper City (the "Governmental Entity").

The undersigned, on behalf of the entity listed below (the "Nongovernmental Entity"), hereby attests under penalty of perjury as follows:

1. I am over the age of 18 and I have personal knowledge of the matters set forth herein.
2. I am an officer or representative of Jacobs Engineering Group Inc., a non-governmental entity and I am authorized to provide this affidavit on behalf of Nongovernmental Entity)
3. Nongovernmental Entity, and any of its subsidiaries or affiliates, do not use coercion for labor or services, as those terms are defined in Section 787.06, Florida Statutes, as may be amended from time to time.
4. If, at any time in the future, Nongovernmental Entity does use coercion for labor or services, Nongovernmental Entity will immediately notify Governmental Entity and no contracts may be executed, renewed, or extended between the parties.
5. I have read the foregoing affidavit and confirm that the facts stated in it are true, and are made for the benefit of, and reliance by Governmental Entity.

Company: Jacobs Engineering Group Inc.

Authorized Signature: 

Date: March 16, 2026

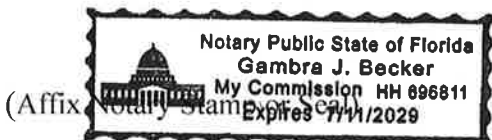
Printed Name: Francois Didier Menard, PE

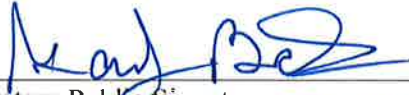
Title: Principal-in-Charge

STATE OF Florida

COUNTY OF Broward ORANGE

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this 16TH day of MARCH, 2026, by FRANCOIS DIDIER MENARD, as PRINCIPAL-IN-CHARGE on behalf of the company/corporation. They ☒ are personally known to me or ☐ have produced _____ as identification.




Notary Public Signature
Print, Type or Stamp Name of Notary: Gandra J. Becker
My commission expires: 7/11/2029

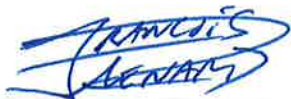
NON-COLLUSION AFFIDAVIT

By submission of this affidavit, the Proposer certifies that this price is made independently and free from collusion. Proposer shall disclose below, to the best of its knowledge, any City of Cooper City officer or employee, or any spouse, son, daughter, stepson, stepdaughter, or parent of any such officer or employee, who is an officer or director of, or has a material interest in, the Proposer's business who is in a position to influence this procurement. Any City of Cooper City officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. For purposes hereof, a person has a material interest if he or she directly or indirectly owns more than five percent (5%) of the total assets or capital stock of any business entity, or if he or she otherwise stands to personally gain if the contract is awarded to this vendor.

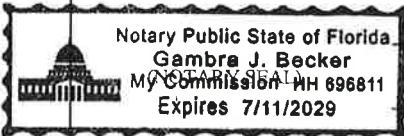
Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City of Cooper City Code of Ordinances.

NAME

RELATIONSHIP



Signature

STATE: <u>Florida</u>	
COUNTY: <u>Orange</u>	
Sworn to (or affirmed) and subscribed before me this <u>16TH</u> day of <u>MARCH</u> , 20 <u>26</u> , by: <u>Francois Noel Menard</u>	
Name of Person Making Statement	
	
	Signature of Notary Public
	<u>GAMBRA J. BECKER</u>
Name of Notary Public (Typed, Printed, Stamped)	
Personally Known: ☒ OR Identification Produced: ☐	
Type of Identification Produced: _____	

The submitting Proposer, Jacobs Engineering Group Inc. is a wholly owned subsidiary of Jacobs Solutions Inc. (Jacobs). The Jacobs organization has a talent force of more than 40,000 with global operating entities in 40 countries and provides a full spectrum of professional, scientific, and technical services. To the best of our present knowledge and belief, Jacobs is not aware of any material interest by the City Officer or anyone in relation to the City Officer, or other circumstance that would appear as collusion in performing the services contemplated by this RFQ. Jacobs is not aware of the City Officer or anyone in relation to the City Officer, or other circumstance who holds any material interest in the profits or benefits of any contract associated with this solicitation. As a publicly traded company, Jacobs tracks stock ownership of holders of five percent (5%) or more of its outstanding shares, and information regarding such ownership is publicly available through Jacobs' SEC filings.

NON-CONFLICT OF INTEREST STATEMENT

1. A. I am the Principal-in-Charge of Jacobs Engineering Group Inc. with a
[Insert Title] [Insert Company Name]
550 West Cypress Creek Road, Suite 400, 1999 Bryan Street Suite 3500,
a local office in Fort Lauderdale, FL 33309 and principal office in Dallas, TX 75201.
2. The entity hereby submits a proposal/offer in response to RFQ 2026-1, ENGINEERING DESIGN SERVICES FOR ELECTRICAL IMPROVEMENTS TO THE CITY'S WATER AND WASTEWATER TREATMENT PLANT.
3. The AFFIANT has made diligent inquiry and provided the information in this statement affidavit based upon its full knowledge.
4. The AFFIANT states that only one submittal for this solicitation has been submitted and tendered by the appropriate date and time and that said above stated entity has no financial interest in other entities submitting a proposal for the work contemplated hereby.
5. Neither the AFFIANT nor the above named entity has directly or indirectly entered into any agreement, participated in any collusion or collusive activity, or otherwise taken any action which in any way restricts or restrains the competitive nature of this solicitation, including but not limited to the prior discussion of terms, conditions, pricing, or other offer parameters required by this solicitation.
6. Neither the entity nor its affiliates, nor anyone associated with them, is presently suspended or otherwise prohibited from participation in this solicitation or any contract to follow thereafter by any government entity.
7. Neither the entity nor its affiliates, nor anyone associated with them, have any potential conflict of interest because and due to any other clients, contracts, or property interests in this solicitation or the resulting project.
8. I hereby also certify that no member of the entity's ownership or management or staff has a vested interest in any City Division/Department/Office.
9. I certify that no member of the entity's ownership or management is presently applying, actively seeking, or has been selected for an elected position within City of Cooper City government.
10. In the event that a conflict of interest is identified in the provision of services, I, the undersigned, will immediately notify the City in writing.
- By the signature(s) below, I/we, the undersigned, as authorized signatory to commit the firm, certify that the information as provided in this attachment is true and correct at the time of submission.



Signature of Affiant

Francois Didier Menard, PE, Principal-in-Charge

Printed Name & Title of Affiant

The submitting Proposer, Jacobs Engineering Group Inc. is a wholly owned subsidiary of Jacobs Solutions Inc. (Jacobs). The Jacobs organization has a talent force of more than 40,000 with global operating entities in 40 countries.

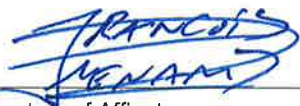
Jacobs provides a full spectrum of professional, scientific, and technical services. Based on our internal conflict-of-interest polling for this pursuit, and to the best of our present knowledge and belief, Jacobs is not aware of any vested or financial interest or relationship that would create a conflict in performing the contemplated work. However, as Jacobs is a publicly traded corporation, Jacobs tracks stock purchases and ownership of those who may have an ownership interest of 5% or more of its outstanding shares, and information regarding such ownership is publicly available through Jacobs' SEC filings.

OWNERSHIP DISCLOSURE AFFIDAVIT

1. If the contract or business transaction is with a corporation, the full legal name and business address shall be provided for each officer and director and each stockholder who holds directly or indirectly five percent (5%) or more of the corporation's stock. If the contract or business transaction is with a trust, the full legal name and address shall be provided for each trustee and each beneficiary. All such names and addresses are (Post Office addresses are not acceptable), as follows:

Full Legal Name	Address	Ownership
Vanguard Group	11.97%	
%		
Blackrock Inc.	7.77%	
%		
State Street Corp.	6.35%	
%		

2. The full legal names and business address of any other individual (other than subcontractors, materialmen, suppliers, laborers, or lenders) who have, or will have, any interest (legal, equitable, beneficial or otherwise) in the contract or business transaction with the City are (Post Office addresses are not acceptable), as follows:



Signature of Affiant

Francois Didier Menard, PE

Print Name

March 16, 2026

Date

As a publicly traded corporation, Jacobs does not track stock purchases of those who may have an ownership interest of 5% or more. All of the Company's latest financial and SEC information is available through the SEC at www.sec.gov as well as on the Company website at: <https://invest.jacobs.com/financials/sec-filings/default.aspx>



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
02/18/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS **WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LIC #0437153 Marsh Risk & Insurance Services CIRTS_Support@jacobs.com 633 W. Fifth Street Los Angeles, CA 90071 USA	1-212-948-1306	CONTACT NAME: PHONE (A/C. No. Ext): E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A: ACE AMER INS CO INSURER B: INDEMNITY INS CO OF NORTH AMER INSURER C: INSURER D: INSURER E: INSURER F:	FAX (A/C. No): 1-212-948-1306 NAIC # 22667 43575
INSURED Jacobs Engineering Group Inc. C/O Global Risk Management 555 South Flower Street, Suite 3200 Los Angeles, CA 90071 USA			

COVERAGES**CERTIFICATE NUMBER: 752561036****REVISION NUMBER:**

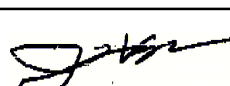
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ CONTRACTUAL LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☐ PRO-JECT ☐ LOC OTHER:		HDO G48977145	07/01/25	07/01/26	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 1,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000 \$
A	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY		ISA H11371504	07/01/25	07/01/26	COMBINED SINGLE LIMIT (Ea accident) \$ 500,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) ☐ Y/N ☒ N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	WLR C72792919 (AOS) WCU C72792932 (OH)* SCF C72792920 (WI)	07/01/25 07/01/25 07/01/25	07/01/26 07/01/26 07/01/26	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 100,000
A	PROFESSIONAL LIABILITY		EON G21655065 016	07/01/25	07/01/26	PER CLAIM/PER AGG 4,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

PROJECT MGR: Mauricio Lara. CONTRACT MGR: Didier Menard. RE: ENGINEERING DESIGN SERVICES FOR ELECTRICAL IMPROVEMENTS TO THE CITY'S WATER AND WASTEWATER TREATMENT PLANT. PROJECT NUMBER: RFQ2026-1. PROPOSAL NUMBER: 006Qp00000bxTqIIAU. SECTOR: Private. City of Cooper City is added as an additional insured for general liability & auto liability as respects the negligence of the insured in the performance of insured's services to cert holder under contract for captioned work. *THIS IS A SAMPLE CERTIFICATE ONLY*. THE ACTUAL CERTIFICATE FOR THE PROPOSED PROJECT WILL COMPLY WITH THE TERMS AND CONDITIONS NEGOTIATED IN THE FINAL CONTRACT, CONSISTENT WITH POLICY TERMS AND CONDITIONS.

CERTIFICATE HOLDER**CANCELLATION**

City of Cooper City 9090 SW 50th Place Cooper City, FL 33328 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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SUPPLEMENT TO CERTIFICATE OF INSURANCE

DATE
02/18/2026

NAME OF INSURED: Jacobs Engineering Group Inc.

Additional Description of Operations/Remarks from Page 1:

Additional Information:

***\$2,000,000 SIR FOR STATE OF: OHIO**

**SWORN STATEMENT PURSUANT TO SECTION 287.133 (3) (a),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY
PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to the CITY OF COOPER CITY, FLORIDA

by: **Francois Didier Menard, PE, Principal-in-Charge**
(print individual's name and title)

for: **Jacobs Engineering Group Inc.**
(print name of entity submitting sworn statement)

whose business address is: **550 West Cypress Creek Road, Suite 400, Fort Lauderdale, FL 33309**

and (if applicable) its Federal Employer Identification Number (FEIN) is: **95-4081636**.

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: N/A - -
_____).

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentations.

3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:

- a) A predecessor or successor of a person convicted of a public entity crime; or
- b) An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which proposals or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement that I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies).

☒ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, not any affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

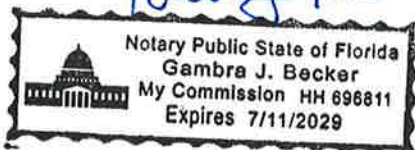
~~_____ This entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged~~

with and convicted of a public entity crime subsequent to July 1, 1989.

~~— The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order).~~

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

Signature



Scrutinized Companies Affidavit

CERTIFICATION PURSUANT TO FLORIDA STATUTE § 287.135

I, Francois Didier Menard, PE, Principal-in-Charge, on behalf of, Jacobs Engineering Group Inc.

Print Name and Title

Company Name

certify that Jacobs Engineering Group Inc. does not:

Company Name

1. Participate in a boycott of Israel; and
2. Is not on the Scrutinized Companies that Boycott Israel List; and
3. Is not on the Scrutinized Companies with Activities in Sudan List; and
4. Is not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; and
5. Has not engaged in business operations in Syria.

Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the Contractor of the City's determination concerning the false certification. The Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Contractor does not demonstrate that the City's determination of false certification was made in error then the City shall have the right to terminate the contract and seek civil remedies pursuant to Florida Statute § 287.135.

Section 287.135, Florida Statutes, prohibits the City from: 1) Contracting with companies for goods or services in any amount if at the time of bidding on, submitting a proposal for, or entering into or renewing a contract if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel; and

2) Contracting with companies, for goods or services over \$1,000,000.00 that are on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473, or are engaged in business operations in Syria.

As the person authorized to sign on behalf of the Contractor, I hereby certify that the company identified above in the section entitled "Contractor Name" does not participate in any boycott of Israel, is not listed on the Scrutinized Companies that Boycott Israel List, is not listed on either the Scrutinized Companies with activities in the Iran Petroleum Energy Sector List, and is not engaged in business operations in Syria. I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject the company to civil penalties, attorney's fees, and/or costs. I further understand that any contract with the City for goods or services may be terminated at the option of the City if the company is found to have submitted a false certification or has been placed on the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Jacobs Engineering Group Inc.

COMPANY NAME

Francois Didier Menard, PE

PRINT NAME & TITLE


SIGNATURE

Request for Taxpayer Identification Number and Certification

Go to www.irs.gov/FormW9 for instructions and the latest information.

Give form to the
requester. Do not
send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

JACOBS ENGINEERING GROUP INC.

2 Business name/disregarded entity name, if different from above.

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☒ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership)

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions)

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) **5**

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) **D**

(Applies to accounts maintained outside the United States.)

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions ☐

5 Address (number, street, and apt. or suite no.). See instructions.

1999 BRYAN STREET, SUITE 3500

6 City, state, and ZIP code

DALLAS, TX 75201

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

- -

or

Employer identification number

9 5 - 4 0 8 1 6 3 6

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign
Here

Signature of
U.S. person

[Signature]

Date March 16, 2026

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

must obtain your correct taxpayer identification number (TIN), which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid).
- Form 1099-DIV (dividends, including those from stocks or mutual funds).
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds).
- Form 1099-NEC (nonemployee compensation).
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers).
- Form 1099-S (proceeds from real estate transactions).
- Form 1099-K (merchant card and third-party network transactions).
- Form 1098 (home mortgage interest), 1098-E (student loan interest), and 1098-T (tuition).
- Form 1099-C (canceled debt).
- Form 1099-A (acquisition or abandonment of secured property).

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

Caution: If you don't return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued);
2. Certify that you are not subject to backup withholding; or
3. Claim exemption from backup withholding if you are a U.S. exempt payee; and
4. Certify to your non-foreign status for purposes of withholding under chapter 3 or 4 of the Code (if applicable); and
5. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting is correct. See *What Is FATCA Reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding. Payments made to foreign persons, including certain distributions, allocations of income, or transfers of sales proceeds, may be subject to withholding under chapter 3 or chapter 4 of the Code (sections 1441–1474). Under those rules, if a Form W-9 or other certification of non-foreign status has not been received, a withholding agent, transferee, or partnership (payor) generally applies presumption rules that may require the payor to withhold applicable tax from the recipient, owner, transferor, or partner (payee). See Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*.

The following persons must provide Form W-9 to the payor for purposes of establishing its non-foreign status.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the disregarded entity.
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the grantor trust.
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust and not the beneficiaries of the trust.

See Pub. 515 for more information on providing a Form W-9 or a certification of non-foreign status to avoid withholding.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person (under Regulations section 1.1441-1(b)(2)(iv) or other applicable section for chapter 3 or 4 purposes), do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515). If you are a qualified foreign pension fund under Regulations section 1.897(l)-1(d), or a partnership that is wholly owned by qualified foreign pension funds, that is treated as a non-foreign person for purposes of section 1445 withholding, do not use Form W-9. Instead, use Form W-8EXP (or other certification of non-foreign status).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a saving clause. Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if their stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first Protocol) and is relying on this exception to claim an exemption from tax on their scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include, but are not limited to, interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third-party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester;
2. You do not certify your TIN when required (see the instructions for Part II for details);
3. The IRS tells the requester that you furnished an incorrect TIN;
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only); or
5. You do not certify to the requester that you are not subject to backup withholding, as described in item 4 under "*By signing the filled-out form*" above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier.

What Is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all U.S. account holders that are specified U.S. persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you are no longer tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

• **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note for ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040 you filed with your application.

• **Sole proprietor.** Enter your individual name as shown on your Form 1040 on line 1. Enter your business, trade, or "doing business as" (DBA) name on line 2.

• **Partnership, C corporation, S corporation, or LLC, other than a disregarded entity.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

• **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. Enter any business, trade, or DBA name on line 2.

• **Disregarded entity.** In general, a business entity that has a single owner, including an LLC, and is not a corporation, is disregarded as an entity separate from its owner (a disregarded entity). See Regulations section 301.7701-2(c)(2). A disregarded entity should check the appropriate box for the tax classification of its owner. Enter the owner's name on line 1. The name of the owner entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For

example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, enter it on line 2.

Line 3a

Check the appropriate box on line 3a for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3a.

IF the entity/individual on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation.
• Individual or	Individual/sole proprietor.
• Sole proprietorship	
• LLC classified as a partnership for U.S. federal tax purposes or	Limited liability company and enter the appropriate tax classification:
• LLC that has filed Form 8832 or 2553 electing to be taxed as a corporation	P = Partnership, C = C corporation, or S = S corporation.
• Partnership	Partnership.
• Trust/estate	Trust/estate.

Line 3b

Check this box if you are a partnership (including an LLC classified as a partnership for U.S. federal tax purposes), trust, or estate that has any foreign partners, owners, or beneficiaries, and you are providing this form to a partnership, trust, or estate, in which you have an ownership interest. You must check the box on line 3b if you receive a Form W-8 (or documentary evidence) from any partner, owner, or beneficiary establishing foreign status or if you receive a Form W-9 from any partner, owner, or beneficiary that has checked the box on line 3b.

Note: A partnership that provides a Form W-9 and checks box 3b may be required to complete Schedules K-2 and K-3 (Form 1065). For more information, see the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

If you are required to complete line 3b but fail to do so, you may not receive the information necessary to file a correct information return with the IRS or furnish a correct payee statement to your partners or beneficiaries. See, for example, sections 6698, 6722, and 6724 for penalties that may apply.

Line 4 Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third-party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space on line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2).

2—The United States or any of its agencies or instrumentalities.

3—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities.

5—A corporation.

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or territory.

7—A futures commission merchant registered with the Commodity Futures Trading Commission.

8—A real estate investment trust.

9—An entity registered at all times during the tax year under the Investment Company Act of 1940.

10—A common trust fund operated by a bank under section 584(a).

11—A financial institution as defined under section 581.

12—A middleman known in the investment community as a nominee or custodian.

13—A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
• Interest and dividend payments	All exempt payees except for 7.
• Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
• Barter exchange transactions and patronage dividends	Exempt payees 1 through 4.
• Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5. ²
• Payments made in settlement of payment card or third-party network transactions	Exempt payees 1 through 4.

¹ See Form 1099-MISC, Miscellaneous Information, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) entered on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37).

B—The United States or any of its agencies or instrumentalities.

C—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i).

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i).

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state.

G—A real estate investment trust.

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940.

I—A common trust fund as defined in section 584(a).

J—A bank as defined in section 581.

K—A broker.

L—A trust exempt from tax under section 664 or described in section 4947(a)(1).

M—A tax-exempt trust under a section 403(b) plan or section 457(g) plan.

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, enter "NEW" at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have, and are not eligible to get, an SSN, your TIN is your IRS ITIN. Enter it in the entry space for the Social security number. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/EIN. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or Form SS-4 mailed to you within 15 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and enter "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, you will generally have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon. See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier, for when you may instead be subject to withholding under chapter 3 or 4 of the Code.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third-party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))**	The grantor ⁴

For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing Form 1041 or under the Optional Filing Method 2, requiring Form 1099 (see Regulations section 1.671-4(b)(2)(i)(B))**	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name on line 1, and enter your business or DBA name, if any, on line 2. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

*** Note:** The grantor must also provide a Form W-9 to the trustee of the trust.

****** For more information on optional filing methods for grantor trusts, see the Instructions for Form 1041.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information, such as your name, SSN, or other identifying information, without your permission to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax return preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity, or a questionable credit report, contact the IRS Identity Theft Hotline at 800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 877-777-4778 or TTY/TDD 800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Go to www.irs.gov/IdentityTheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and territories for use in administering their laws. The information may also be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payors must generally withhold a percentage of taxable interest, dividends, and certain other payments to a payee who does not give a TIN to the payor. Certain penalties may also apply for providing false or fraudulent information.



Addendum No. 1

(Issued Tuesday, February 24, 2026)

RFQ2026-1, Engineering Design Services For Electrical Improvements To The City's Water and Wastewater Treatment Plant

This addendum becomes a part of the subject solicitation

A. CHANGES TO THE SOLICITATION:

Please note the following changes to the Solicitation:

1. Section 7.1, Proposer Questionnaire has been **replaced** with the following:

7.1 Proposal Questionnaire:

*Inquiries concerning this solicitation shall be directed through the City's OpenGov Procurement Project Portal:
<https://procurement.opengov.com/portal/coopercity/projects/235365>*

The following material is required to be submitted by Monday, March 16, 2026, to be considered for award.

General Requirements - The purpose of the technical proposal is to demonstrate the qualifications, competence, capacity and methodology of the firms seeking to provide the services in conformity with the requirements of this solicitation. The technical proposal should demonstrate the combined qualifications of the firm and of the particular staff to be assigned to this engagement. It should also specify an approach that will meet the solicitation requirements.

The technical proposal should address all of the points outlined in the solicitation. The proposal should be prepared simply and economically, providing a straightforward, concise description of the proposer's capabilities to satisfy the requirements of the solicitation. While additional data may be presented, the following subjects must be included:

- *Consultant Identification*
- *Technical Proposal*
- *Cost Proposal (if applicable)*

Inquiries concerning this Request for Proposal and the subject of the Request for Proposals shall be directed to the OpenGov Procurement Project Portal at

<https://procurement.opengov.com/portal/coopercity/projects/235365>

The following material is required to be submitted by Monday, March 16, 2026 for a contractor to be considered.

General Requirements - The purpose of the technical proposal is to demonstrate the qualifications, competence, capacity and methodology of the firms seeking to provide the services in conformity with the requirements of this Request for Proposal. The technical proposal should demonstrate the combined qualifications of the firm and of the particular staff to be assigned to this engagement. It should also specify an

approach that will meet the Request for Proposal requirements.

The technical proposal should address all of the points outlined in the Request for Proposal. The proposal should be prepared simply and economically, providing a straightforward, concise description of the proposer's capabilities to satisfy the requirements of the Request for Proposal. While additional data may be presented, the following subjects must be included:

- ***Consultant Identification***
- ***Technical Proposal***
- ***Cost Proposal (if applicable)***

B. QUESTION AND ANSWERS:

The following questions were received:

Question 1: I have identified some issues with the forms. Some are provided in image format, which makes them difficult to complete, and others contain formatting errors where certain words are not displayed correctly.

Below is a list of the forms in which I found these issues. Please let me know whether they are intended to appear this way.

F - Business Entity Affidavit

G - Certification Regarding Debarment, Suspension, Etc.

I - Domestic Partnership Affidavit

K - Foreign Country of Concern Affidavit

Additionally, this form appears to be missing.

I. Florida Division of Corporations (submit proof of active registration).

Answer 1: Attachments F – I are downloadable PDF files. If you are having issues downloading the PDF files, please reach out to OpenGov support using the ? in the top right-hand corner of the website or via email at procurement-support@opengov.com. All forms required to be submitted pursuant to the solicitation are attached to the solicitation.

Tab 9 Required Forms/Affidavits under subsection 3.1 of Section 3 requires Proposers to submit proof of an active Florida Division of Corporations Profile. Firms doing business in Florida should be registered with the Division of Corporations <https://dos.fl.gov/sunbiz/>. Proof of active registration can be the firm's annual report (pdf) or the Division of Corporations detail screen (pdf).

Acknowledgment of Addendum #1

Proposer has acknowledged receipt and understanding of the information contained in this Addendum through electronic acknowledgement or by signing this document and including it as a part of its submittal.

Acknowledged by:		Company:	Jacobs Engineering Group Inc.
Print Name:	Francois Didier Menard, PE	Date:	March 24, 2026



Addendum No. 2

(Issued Friday, March 13, 2026)

RFQ2026-1, Engineering Design Services For Electrical Improvements To The City's Water and Wastewater Treatment Plant

This addendum becomes a part of the subject solicitation

A. CHANGES TO THE SOLICITATION:

Please note the following changes to the Solicitation:

1. The Submission Deadline has been **extended**:

The submission deadline has been extended to 3:00 PM on Tuesday, March 24, 2026.

2. The following attachments have been **added** to the solicitation:

The following attachments have been added to this solicitation:

- Attachment W – RFQ2026-1 - 2024 WATER AND WASTEWATER MASTER PLAN UPDATE (2)(3)

3. Section 1.3 Definitions has been **deleted**:

1.3 Definitions:

~~The following words and expressions used in this Solicitation shall be construed as follows, except when it is clear from the context that another meaning is intended:~~

~~1. —~~

4. Section 2.2, Contract Term has been **replaced** with the following:

2.2 Contract Term:

The CITY intends to retain one (1) qualified consultant/team of firms for one (1) Non-Exclusive Professional Services Agreement (PSA), with an effective term of sixteen (16) months and an estimated contract amount of three million, seven hundred thousand dollars (\$3,700,000.00) as a base fee, plus a four hundred, forty-thousand-dollar (\$440,000.00) contingency.

The City reserves the right to exercise its option to extend this Contract for up to one hundred-eighty (180) calendar days beyond the current Contract period. If this right is exercised, the City shall notify the Proposer, in writing, of its intent to extend the contract for a definitive period of time prior to the effective date of the extension. By affixing its authorized signature to this Proposal Form, the Proposer hereby acknowledges and agrees to this right of the City. This Contract may be extended beyond the initial one hundred-eighty (180) calendar day extension period by mutual agreement between the City and the Consultant, upon approval by the City Commission.

~~The CITY intends to retain one (1) qualified consultant/team of firms for one (1) Non-Exclusive Professional Services Agreement (PSA), with an effective term of sixteen (16) months and an estimated contract amount of three million, seven hundred thousand dollars (\$3,700,000.00) as a base fee, plus a four hundred, forty-thousand dollar (\$440,000.00) contingency.~~

~~The City reserves the right to exercise its option to extend this Contract for up to one hundred eighty (180) calendar days beyond the current Contract period. If this right is exercised, the City shall notify the Proposer, in writing, of its intent to extend the contract for a definitive period of time prior to the effective date of the extension. By affixing its authorized signature to this Proposal Form, the Proposer hereby acknowledges and agrees to this right of the City. This Contract may be extended beyond the initial one hundred eighty (180) calendar day extension period by mutual agreement between the City and the Contractor, upon approval by the City Commission.~~

5. Section 2.4, Minimum & Preferred Experience and Qualifications has been **replaced** with the following:

2.4 Minimum & Preferred Experience and Qualifications:

The Prime Consultant must hold a state of Florida Professional Engineering (PE) license and be able to demonstrate experience on three (3) projects performed in the State of Florida over the past five (5) years of similar work as described in SCOPE OF SERVICES. The expertise must be met by a qualified individual(s) of the prime firm and/or sub-consultant firm(s), as applicable. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination for the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the CITY.

The CITY shall prefer Proposers having at least ten (10) years of experience of similar work as described within this Solicitation and Proposers capable of completing the project in a single phase.

The Evaluation Committee (EC) may negatively evaluate proposals from firms they determine have failed to meet the above referenced experience and qualification(s). Information regarding the experience and qualification(s) and preference stipulations, for the Prime consultant, A/E sub-consultants, and non A/E subconsultants, must be included on the Experience, Qualifications & Reference Form. This form may be submitted more than once per individual Team member firm as applicable.

Proposers shall also be required to:

- provide a detailed narrative description, graphics, timeline and schedule of its approach and methodology for the design of the Project.
- identify deviations or missing items in the Master Plan and ensure that they are included in their proposal for the design.

~~The Prime Consultant must hold a state of Florida Professional Engineering (PE) license and be able to demonstrate experience on _____ () projects performed in the State of Florida over the past five (5) years of similar work as described in SCOPE OF SERVICES. The expertise must be met by a qualified individual(s) of the prime firm and/or sub-consultant firm(s), as applicable. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination for the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the CITY.~~

~~The CITY shall prefer Proposers having at least ten (10) years of experience of similar work as described within this Solicitation.~~

~~The Evaluation Committee (EC) may negatively evaluate proposals from firms they determine have failed to meet the above referenced experience and qualification(s). Information regarding the experience and qualification(s) and preference stipulations, for the Prime consultant, A/E sub-consultants, and non A/E~~

~~subconsultants, must be included on the Experience, Qualifications & Reference Form. This form may be submitted more than once per individual Team member firm as applicable.~~

~~Proposers shall also be required to:~~

- ~~• provide a detailed narrative description, graphics, timeline and schedule of its approach and methodology for the design of the Project.~~
- ~~• identify deviations or missing items in the Master Plan and ensure that they are included in their proposal for the design.~~

6. Section 3.1, Format, Contents and Documents has been **revised**:

3.1 Format, Contents and Documents

Interested Proposers must submit their proposal electronically through OpenGov in .pdf format. Proposers should carefully follow the format and instructions outlined herein. The Proposal Submittal Form must include the electronic acknowledgement and/or signature of the firm's authorized representative.

Every firm or team of firms, whether a sole respondent, a prime consultant firm, or a sub-consultant firm, must be responsive to all applicable items contained in this Solicitation. Proposers shall not modify any of the forms provided and shall submit the completed forms listed below in their proposal. Failure to provide all of the requested information may deem a respondent's proposal non-responsive. Each proposal shall consist of the following documents in the order noted below.

Proposal Submittal Form

The execution of the Proposal Submittal Form constitutes the unequivocal offer of the proposer to be bound by the terms of its proposal. This is a Web-based form in OpenGov. It does not need to be included in the PDF proposal and is only required of the Prime consultant.

Table of Contents

TAB 1: Letter of Interest (Optional) - Preferred Maximum of Two (2) Pages

Proposers shall provide a letter of interest indicating their commitment to the project. Letter of interest shall include but not be limited to the following:

- Full legal company name and company type (C-Corp, S-Corp, LLC, Sole Proprietor, etc.)*
- Names and titles of principals, partners, or owners as applicable;*
- Primary company point-of-contact information (name, phone and email), and any secondary or supplemental point(s) of contact information;*
- Physical and mailing address (if different) and include any other location(s) which may perform portion(s) of the work;*
- Brief statement of company history (date of establishment, number of years in business, number of employees, etc.);*
- Brief statement regarding the Respondent's interest in this project.*

TAB 2: Letter of Qualifications (LOQ)

Proposers shall submit an LOQ under this tab. Proposers shall also include a brief resume including education, experience, licenses and any other pertinent information for each assigned personnel under this tab. Proposers are advised that changes to the proposed team composition, such as adding, deleting or replacing a firm(s), or individual sub-consultant(s), after the response deadline specified herein, will only be allowed at the discretion of the CITY. Under no circumstances shall a change be allowed that results in a proposer gaining a competitive advantage over other proposers.

Any information/personnel that does not adequately fit in the space provided on the LOQ form shall be added on an additional sheet to be appended to the LOQ.

TAB: 3 Table of Organization (T.O.)

Proposer shall submit a table of organization, to includes the following:

- 1. Listing of all team member firms as denoted on the LOQ. All firms must be denoted with proper Federal Employer Identification Number (FEIN). For purposes of satisfying the applicable requirements of this solicitation. The CITY considers every company having a different FEIN, a separate legal entity.***
- 2. Listing of all assigned personnel and professional services. A discipline/technical category should be assigned to each team member in connection with this project.***

TAB 4: Narrative For Criteria

Proposers shall submit a brief narrative detailing responses to each evaluation criterion described in EVALUATION CRITERIA section.

TAB 5: Project Approach

Proposer shall provide a narrative detailing the Proposer's understanding of the proposed scope of work, which may include but not be limited to, studies performed that affect this project, key design elements, (a design scheme may be required), effects on the community involved, and awareness of the permitting requirements, including health and safety measures applicable to the project's scope. Proposer's approach to the project, sustainable design principles as outlined in the solicitation document, and implementation of LEED requirements, as applicable.

TAB 6: Experience & Qualification of Firm

Proposers shall submit an Experience & Qualification Reference Form for each team member (Prime, A/E Sub-consultant, and/or non-A/E sub-consultant), as applicable. The applicable firm must list a previous similar type project in which it has performed work. The reference provided should be for one project and must comply with the requirements listed within the Solicitation. Firms must denote whether the reference project is to meet a preferred experience and qualification requirement, and/or a general project reference. The Experience & Qualification Reference Form may be submitted more than once per individual team member firm, as applicable. Please be advised that each individual reference may be contacted by CITY staff or designee to verify the information provided in the Experience & Qualification Reference Form.

Proposer should include copies of each team member's professional license(s) required to perform the requested scope of work.

Proposers shall also provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements under this tab.

TAB 7: Required Forms/Affidavits (only required of the Prime Consultant)

- A. American with Disabilities Act (ADA) Nondiscrimination Statement***
- B. Business Entity Affidavit***
- C. Certification Regarding Debarment, Suspension, Etc.***
- D. Contractor Due Diligence Affidavit.***
- E. Domestic Partnership Affidavit***
- F. Drug Free Workplace Certificate***
- G. Employee Background Verification Affidavit***
- H. E-Verify Affidavit***
- I. Florida Division of Corporations (submit proof of active registration)***
- J. Foreign (Non-Florida) Corporation Form (if applicable)***
- K. Foreign Country of Concern Affidavit***
- L. Non-Collusion Affidavit***
- M. Non-Conflict of Interest Statement***
- N. Ownership Disclosure Affidavit***
- O. Sample Insurance***

- P. Public Entity Crimes Statement**
- Q. Scrutinized Companies Affidavit**
- R. W-9**

Failure to provide the information required by the CITY may result in the negative evaluation of the team, or disqualification of the team, at the CITY's sole discretion.

The selected Proposer(s) may be required to disclose any lawsuits that include allegations of discrimination in the last ten years prior to the date of solicitation, the disposition of such lawsuits, or a statement that there are NO such lawsuits, as part of a responsibility review prior to award.

~~Interested Proposers must submit their proposal electronically through OpenGov in .pdf format. Proposers should carefully follow the format and instructions outlined herein. The Proposal Submittal Form must include the electronic acknowledgement and/or signature of the firm's authorized representative. Every firm or team of firms, whether a sole respondent, a prime consultant firm, or a sub-consultant firm, must be responsive to all applicable items contained in this Solicitation. Proposers shall not modify any of the forms provided and shall submit the completed forms listed below in their proposal. Failure to provide all of the requested information may deem a respondent's proposal non-responsive. Each proposal shall consist of the following documents in the order noted below.~~

Proposal Submittal Form

~~The execution of the Proposal Submittal Form constitutes the unequivocal offer of the proposer to be bound by the terms of its proposal. This is a Web-based form in OpenGov. It does not need to be included in the PDF proposal and is only required of the Prime consultant.~~

Table of Contents

TAB 1: Letter of Interest (Optional) – Preferred Maximum of Two (2) Pages

~~Proposers shall provide a letter of interest indicating their commitment to the project. Letter of interest shall include but not be limited to the following:~~

- ~~• Full legal company name and company type (C-Corp, S-Corp, LLC, Sole Proprietor, etc.)~~**
- ~~• Names and titles of principals, partners, or owners as applicable;~~**
- ~~• Primary company point of contact information (name, phone and email), and any secondary or supplemental point(s) of contact information;~~**
- ~~• Physical and mailing address (if different) and include any other location(s) which may perform portion(s) of the work;~~**
- ~~• Brief statement of company history (date of establishment, number of years in business, number of employees, etc.);~~**
- ~~• Brief statement regarding the Respondent's interest in this project.~~**

TAB 2: Letter of Qualifications (LOQ)

~~Proposers shall submit an LOQ under this tab. Proposers are advised that changes to the proposed team composition, such as adding, deleting or replacing a firm(s), or individual sub-consultant(s), after the response deadline specified herein, will only be allowed at the discretion of the CITY. Under no circumstances shall a change be allowed that results in a proposer gaining a competitive advantage over other proposers. Any information/personnel that does not adequately fit in the space provided on the LOQ form shall be added on an additional sheet to be appended to the LOQ.~~

TAB: 3 Table of Organization (T.O.)

~~Proposer shall submit a table of organization, to includes the following:~~

- ~~1. Listing of all team member firms as denoted on the LOQ. All firms must be denoted with proper Federal Employer Identification Number (FEIN). For purposes of satisfying the applicable requirements of this solicitation. The CITY considers every company having a different FEIN, a separate legal entity.~~**
- ~~2. Listing of all assigned personnel and professional services. A discipline/technical category should be~~**

~~assigned to each team member in connection with this project.~~

~~TAB 4: Resumes~~

~~Proposers shall submit a brief resume including education, experience, licenses and any other pertinent information for each assigned personnel listed in the Table of Organization. Subject documents must be paginated and include the personnel's name at the top of each page, with a preferred maximum of two (2) pages per team member.~~

~~TAB 5: Narrative For Criteria~~

~~Proposers shall submit a brief narrative detailing responses to each evaluation criterion described in EVALUATION CRITERIA section.~~

~~TAB 6: Project Approach~~

~~Proposer shall provide a narrative detailing the Proposer's understanding of the proposed scope of work, which may include but not be limited to, studies performed that affect this project, key design elements, (a design scheme may be required), effects on the community involved, and awareness of the permitting requirements, including health and safety measures applicable to the project's scope. Proposer's approach to the project, sustainable design principles as outlined in the solicitation document, and implementation of LEED requirements, as applicable.~~

~~TAB 7: Experience & Qualification of Firm~~

~~Proposers shall submit an Experience & Qualification Reference Form for each team member (Prime, A/E Sub-consultant, and/or non-A/E sub-consultant), as applicable. The applicable firm must list a previous similar type project in which it has performed work. The reference provided should be for one project and must comply with the requirements listed within the Solicitation. Firms must denote whether the reference project is to meet a preferred experience and qualification requirement, and/or a general project reference. The Experience & Qualification Reference Form may be submitted more than once per individual team member firm, as applicable. Please be advised that each individual reference may be contacted by CITY staff or designee to verify the information provided in the Experience & Qualification Reference Form.~~

~~Proposer should include copies of each team member's professional license(s) required to perform the requested scope of work.~~

~~Proposers shall also provide any other documentation that demonstrates their ability to satisfy all of the minimum qualification requirements under this tab.~~

~~TAB 8: Lobbyist Registration Form~~

~~A Lobbyist Registration Form shall be submitted by the prime consultant, and shall list all members of the presentation team who will be participating in the Second Tier Meeting (oral presentations) and/or all members of the team who will be participating in Negotiations in the event the prime consultant is recommended for contract negotiations. An amended Lobbyist Registration Form may be submitted to the Purchasing Division, prior to the Second Tier Meeting and/or Negotiation Meeting(s), as applicable, if additional individuals will be speaking at the subject meetings. The amended form should be titled as "Amended" and should denote those members that have been substituted and/or added with an asterisk. The amended form must be submitted to Purchasing prior to the Second Tier Meeting and/or Negotiation Meeting(s), via email to purchasing@coopercity.gov, referencing this project number/name on the subject line. Applicable fees may apply.~~

~~Pursuant to Cooper City Procurement Code, Section 2-233, subsection (a), please be advised of the following:
(a) Prior to engaging in any lobbying activities, whether or not compensation is paid or received in connection with those activities, each lobbyist shall:~~

~~(1) File with the City Clerk, in form prescribed by the City Clerk, an annual registration statement under oath containing the following information:~~

~~a. The lobbyist's full name, residence address, business name, business address, email address, and nature of business.~~

~~b. The full name and address of all persons on whose behalf the lobbyist will be lobbying. If, after filing the registration statement, the lobbyist intends to lobby on behalf of any person(s) not listed on the registration statement, the lobbyist shall, prior to engaging in any lobbying activities on behalf of such unlisted person(s), file an amendment to the registration statement in form prescribed by the City Clerk, containing all the~~

~~information required in the annual registration statement.~~

~~c. The general and specific subject matters which the lobbyist seeks to influence.~~

~~d. The extent of any direct business association by the lobbyist with any current elected or appointed official or employee of City. For the purposes of this article, the term "direct business association" shall mean any mutual endeavor undertaken for profit or compensation.~~

~~e. A lobbyist representing a group, association, or organization shall, prior to engaging in lobbying, receive appropriate authorization from said group, association, or organization to lobby on its behalf upon a particular subject matter. A copy of the applicable minutes, motion, or other documentation of the action providing such authorization shall be attached to the registration statements.~~

~~f. A lobbyist representing a principal or employer shall file a copy of a written statement of the principal or employer confirming authorization to lobby for the principal or employer.~~

~~All additional team members, who are lobbyists, and are not technical experts or employees of the principal whose normal scope of employment does not include lobbying activities and whose sole participation in a CITY procurement involves an appearance as defined herein, must file an Lobbyist Registration Form (for the individual or entity) with the Clerk's Office, prior to the oral presentation and/or negotiation meetings. The Lobbyist Registration Form is available from the City Clerk's Office.~~

~~TAB 9: Required Forms/Affidavits (only required of the Prime Consultant)~~

~~A. American with Disabilities Act (ADA) Nondiscrimination Statement~~

~~B. Business Entity Affidavit~~

~~C. Certification Regarding Debarment, Suspension, Etc.~~

~~D. Contractor Due Diligence Affidavit.~~

~~E. Domestic Partnership Affidavit~~

~~F. Drug-Free Workplace Certificate~~

~~G. Employee Background Verification Affidavit~~

~~H. E-Verify Affidavit~~

~~I. Florida Division of Corporations (submit proof of active registration)~~

~~J. Foreign (Non-Florida) Corporation Form (if applicable)~~

~~K. Foreign Country of Concern Affidavit~~

~~L. Non-Collusion Affidavit~~

~~M. Non-Conflict of Interest Statement~~

~~N. Ownership Disclosure Affidavit~~

~~O. Sample Insurance~~

~~P. Public Entity Crimes Statement~~

~~Q. Scrutinized Companies Affidavit~~

~~R. W-9~~

~~Failure to provide the information required by the CITY may result in the negative evaluation of the team, or disqualification of the team, at the CITY's sole discretion.~~

~~The selected Proposer(s) may be required to disclose any lawsuits that include allegations of discrimination in the last ten years prior to the date of solicitation, the disposition of such lawsuits, or a statement that there are NO such lawsuits, as part of a responsibility review prior to award.~~

7. Criterion 4A under Section 4.5, Evaluation Criteria has been **replaced** with the following:

4.5 Evaluation Criteria

4. Criterion 4A: Ability of the Team Members to Interface with the City

Communication ability, proximity to the project, commitment to satisfy the City's requirements and familiarity with City of Cooper City & Broward County guidelines.

4. Criterion 4A: Ability of the Team Members to Interface with the County

Communication ability, proximity to the project, commitment to satisfy the City's requirements and familiarity with City of Cooper City & Broward County guidelines.

8. Section 5.46, Non-Conformance To Contract Conditions has been **replaced** with the following:

5.46 Non-Conformance To Contract Conditions:

Services may be tested for compliance with specifications. Services delivered, not conforming to specifications, may be rejected and returned at vendor's expense. These services and services not delivered as per delivery date in Bid/Proposal and/or Purchase order or Task Order may be purchased on the open market with any increase in cost charged to the Proposer. Any violation of these stipulations may also result in:

- a. Vendor's name being removed from the vendor list;*
- b. All City Departments being advised not to do business with vendor.*

~~*Services may be tested for compliance with specifications. Services delivered, not conforming to specifications, may be rejected and returned at vendor's expense. These services and services not delivered as per delivery date in Bid/Proposal and/or Purchase order or Task Order may be purchased on the open market with any increase in cost charged to the Proposer. Any violation of these stipulations may also result in:*~~

- ~~*a. Vendor's name being removed from the vendor list;*~~
- ~~*b. All City Departments being advised not to do business with vendor.*~~

~~*OpenGov doesn't remove vendors from the system, but you can "block" vendors from submitting bids. We recommend changing "removed" to "blocked"*~~

B. QUESTION AND ANSWERS:

The following questions were received:

Question 1: The City has provided the electrical portion of the master plan, but not the complete master plan. Could you please provide a copy of the full master plan for the WTP and WWTP facilities? Having the full document will help us understand the City's planned future expansion and capacity increases so that we can design the electrical system appropriately.

Answer 1: The full master plan has been uploaded as Attachment W.

Question 2: We are seeking clarification regarding the ARCHITECT-ENGINEER LETTER OF QUALIFICATIONS (LOQ), Section (VII) – Resumes for Assigned Personnel.

Could you please confirm whether resumes are required to be included at the end of the LOQ in addition to being provided under Tab 4 – Resumes? Or is inclusion under Tab 4 sufficient to meet the submission requirements?

We appreciate your guidance to ensure full compliance with the solicitation instructions.

Answer 2: Resumes are now required to be submitted under Tab 2. See Section A. of Addendum No. 2.

Question 3: Please clarify how you would like us to fill out the Lobbyist Registration Form. It looks as though there is only space for one lobbyist to be named. Would an attached list of personnel be acceptable?

Answer 3: The requirement to submit the Lobbyist Registration Form has been removed. See Section A. of Addendum No. 2.

Question 4: Can you clarify the proposed power source for the future headworks and confirm where the power will originate?

Answer 4: The future headworks is going to receive power from 3MCC-2 and, for redundancy purposes, also receive power from 3MCC-1.

Acknowledgment of Addendum # 2

Proposer has acknowledged receipt and understanding of the information contained in this Addendum through electronic acknowledgement or by signing this document and including it as a part of its submittal.

Acknowledged by:		Company:	Jacobs Engineering Group Inc.
Print Name:	<u>Francois Didier Menard, PE</u>	Date:	<u>March 24, 2026</u>



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